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Vol 4, No. 1
JANUARY, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN — BERRIMA — MEDWAY — SYDNEY

GENERAL MANAGER'S NOTES

At the meeting of our Board of Directors on 6th December the installation of No. 5 kiln was approved.

This kiln will be approximately 15 feet in diameter and 560 feet long and to the best of our knowledge will be the largest kiln in the British Commonwealth, producing over 1,000 tons of clinker per day.

It has not been decided yet who will be supplying and installing the kiln, however it will be equipped with an electrostatic dust collector and its own coal mill plus full instrumentation. In other words the kiln will be fully equipped for efficient operation and it will be up to us to use this equipment.

(J. F. McNicol)

S.P.C. MONTHLY NEWSLETTER

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CEMENT LTD.
BERRIMA, N.S.W.**

● **EDITOR**

M. D. Hauber

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JANUARY, 1962

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EDITORIAL

Dear Readers,

Firstly I would like to extend to all my readers the compliments of the season and wish you all the greatest success for 1962.

What does 1962 hold for us?

Many burning questions are likely to be answered during this year—most of them of vital interest to Australia.

Internationally, the problems of Berlin, Katanga, India, Red China, and Dutch New Guinea, and testing of Atomic Weapons, will no doubt be thrashed around. Whether they will be solved remains to be seen.

Scientifically we are on the brink of vast new discoveries for the benefit of mankind. The barriers of space are dwindling in size and in all spheres Australia is maintaining a high position in world status.

On the home front there are plans for vast new ideas, all of which will increase the prosperity of the country. To enjoy this prosperity let us unite in an all-out drive to make 1962 a safe year at the plant. One new year's resolution should be to Think Safety, Act Safety and make the year one to remember.

The January issue of the Newsletter is usually a lean one because a lot of people are on annual leave.

However, the Annual Picnic provided us with plenty of interesting material which you will find on later pages.

Until next issue,

Yours,

THE EDITOR.

WILL 1962 GIVE US THIS?

MORE WATER

The problems of Australia change, but one continues in the forefront: the need for more water. The approach of the era in which the Snowy Mountains Scheme will pass from being a charge on the revenues to a period in which it will have to prove itself as a revenue earner is now imminent. Vast amounts have been

outlaid in building dams used purely for hydro-electric purposes. But the attraction of the hydro-electric idea is that water, after generating power, will irrigate a huge area and create the equivalent of a new Denmark in southern New South Wales between the Murrumbidgee and the Murray Rivers. A corollary to this is a plan for further development down the Murray which has been recommended by the Murray River Commission for construction near where the Darling runs into Australia's greatest river. The new plan covers the building of a great storage lake between Mildura and Renmark at a cost of £14 millions. If it can be done for the money, the cost is most modest—minor dams in New South Wales have cost as much; after being estimated to cost a couple of millions, Warrumbamba cost £34 millions. The new dam would be built at Chowilla in South Australia and would be Australia's biggest—three miles and a quarter long, its water covering parts of the borders of the three states of New South Wales, Victoria and South Australia. It would be 41 feet high, would flood 400 square miles of country, would hold 10½ times as much water as Sydney Harbour and could contain 4.6 million acre-feet of water. It would thus approach double the size of Hume Reservoir in terms of water. It would be considerably larger than the Eucumbene Dam which holds 3.86 million acre-feet. The noble scheme is the brain child of that practical visionary, Sir Thomas Playford, and now has promise of support from the Commonwealth Government so that it seems almost certain to come off.

OR THIS?

THE SEARCH FOR OIL

If oil is not found in Australia it will not be the fault of the Commonwealth Government which is showing a lavish interest in the search. It is backing it to the tune of millions. Last year the Federal Treasury gave direct assistance of £900,000 in the search. Tax concessions were round a million and subsidy £1,400,000. The Petroleum Search Subsidy Act, since it became operative in August, 1959, has resulted in grants to aid 68 geophysical and 24 drilling operations at a total cost to the Commonwealth of £3,494,899. The ground to be covered is enormous. The 24 sedimentary basins on the Australian mainland cover 1,362,000 square miles and there is 100,000 square miles of potentially oil bearing land in New Guinea. The amount set aside for subsidies in the current year is £2,700,000. Here's hoping!

N.R.M.A. MOTORING NEWS

Bush Fire Danger

With the arrival of summer, motorists and campers are advised of the Bush Fire Regulations which apply during these months.

Cooking fires may be lit only in a properly constructed fireplace not less than 15 feet from any log or stump, and the surrounding ground must be cleared for five feet.

This regulation applies throughout the danger months (October to March), but occasions arise when conditions of fire danger become so extreme that it is necessary to prohibit entirely the lighting of all fires in the open throughout the State in special areas. These prohibitions are widely publicised through the daily Press and radio.

The N.R.M.A. appeals to all motorists to be specially careful with the use of fire in the bush at all times.

Technical Hint

Next time you remove the spark plugs, check the gaskets, for these deteriorate with age and become carbon coated.

N.R.M.A. Technical Engineers say that renewing these from time to time will prolong the life of the plug by keeping it cooler. It is also advisable to clean the machined gasket seating in the cylinder head and never to put more than one gasket on each plug.

New Classes for the "Handyman"

The 1962 series of classes in the "Handyman" lecture course, conducted in Sydney, Newcastle and Wollongong by the N.S.W. Government Railways Institute, with the co-operation of the N.R.M.A., will commence shortly, and enrolments are now being accepted.

Enrolments in 1961 numbered 796, of whom over 250 were women. Classes will be held in Sydney, Meadowbank, Dee Why, Homebush, Parramatta, Rockdale, Newcastle and Wollongong.

This course appeals strongly to motor vehicle owners anxious to become acquainted with the methods of "home" maintenance on their own cars. It consists of about 35 lectures, and covers the design and operation of motor vehicles very fully. Pupils gain useful knowledge of adjustments and fault finding, without going too deeply into technical considerations.

Students have visited factories and assembly plants, and a number of screenings of topical and technical subjects have provided diversion.

Classes are held on Mondays to Fridays

inclusive, from 7.30 to 9 p.m. in Sydney, and on two nights each week from 7 p.m. to 9 p.m. in the other centres. Each pupil is entitled to attend only one night per week. When enrolling, students should suggest which night is most suitable.

Applications by intending students should be made, with class fees, either personally or in writing, to the director of the Institute, 267 Castlereagh Street, Sydney (phone B 0961, ext. 8090). At Newcastle, contact should be made with the branch secretary, 542 Hunter Street (MA 0455, ext. L2-268). Attendance fee for the course is £4/4/-, which includes cost of comprehensive notes. Commencing dates of classes in the various centres are:—

SYDNEY, February 5th; NEWCASTLE, February 6th; DEE WHY, February 13th; WOLLONGONG, February 20th; PARRAMATTA, February 14th; MEADOWBANK, February, 1st; HOMEBUSH, February 6th; ROCKDALE, February, 6th.

Canberra Road Pattern

Many motorists will be pleased to hear that the Canberra road pattern has been simplified, says the N.R.M.A.

Driving through Canberra has been difficult for outside motorists, but the through route is now clearly marked as National Route No. 23, which runs right through the city.

The route is generously marked and motorists will now find no trouble traversing Canberra.

Within Canberra also sight-seeing has been simplified by a system of feeder signs and locality signs indicating buildings and places of general interest.

About half a million people visit Canberra each year, including about 30,000 children in organised school groups.

Caravans and Others

Many caravans and trailers are on the roads over the summer months and during the summer holidays.

The N.R.M.A. says that it is wise to allow a driver towing a caravan or trailer plenty of room. He is handicapped by greater stopping distances. Additionally, it takes greater clearance ahead to pass a car and trailer than it does just another car.

Caravan-trailing motorists should also remember that the law requires them to maintain at least 100 yards between them and other caravaneers or heavy vehicles, except when about to overtake.

LET'S LAUGH

Small car owner: "I'll take a half a gallon of petrol and a quarter of a pint of oil, please."

Station Attendant: "And shall I cough into the tyres, sir?"

* * *
A week after buying his new car, Mr. Brown returned it to the garage with a complaint, "There's a terrible rattling noise," he said.

Four weeks went by and there was no word from the garage, so Mr. Brown decided to call. He found the car in pieces, wheels in one corner, the body in another and engine parts all over the floor.

"We've discovered the rattle all right," said the fitter triumphantly. "It was a marble in the ash tray."

* * *
"Could I try on that red dress in the window?" asked the pretty young thing.

"There's no need to do that," the elderly sales lady answered coldly. "We have several fitting rooms."

* * *
Be careful about calling yourself an expert. After all, an "ex" is a has-been, and a "spurt" is a drip under pressure.

* * *
Pardon the Punishment—Ed. note.

A Czechoslovakian midget was running through the side streets, trying to escape the secret police. At last he came to a small cafe and rapped on the door.

"I know it's late," he said to the astonished proprietor, "but do you suppose you could cache a small Czech?"

* * *
A man is getting old when he looks at the menu before he looks at the waitress.

* * *
By the time most men learn to behave themselves it's too late to do anything else.

* * *
As the train emerged from the tunnel the girl said: "Herbert, you shouldn't have kissed me like that, even if it was in the dark."

"I didn't kiss you," said the boy, looking angrily around the compartment, "I only wish I knew who did—I'd teach him!"

"Herbert," sighed the girl, "you couldn't teach him anything!"

* * *
In addition to safety belts for car drivers, another good idea would be to have ejection seats for back seat drivers. Imagine driving in heavy traffic and whispering to your wife, "I think it's time your mother went into orbit."

THE ANNUAL PICNIC

After an apprehensive week on account of the weather, employees turned out in full force (kids galore) to participate in the Welfare Club's annual picnic for employees at Berrima.

The entertainment got away to a bright start, with a beautiful sunny day provided and a full programme to get through.

Fred Bonnar's voice was the first I heard on arriving at Exeter Park, issuing from the public address system, informing one and all of the progress of the events. I don't think Fred was pried loose from the microphone all the afternoon; he had a gang of slaves running backwards and forwards for ice cream and drinks.

The usual funny incidents occurred during the afternoon, with our Works Manager heading the rot by entering in the under five-year-old race—fell flat on his face anyway. Mrs. Austin nearly clobbered an innocent onlooker during the throwing of the rolling pin contest. Just shows what can happen when you're not wearing a safety hat. Better take yours home, Norm!

We won't mention any names but another lady took a nose dive in the married ladies' race—made a beautiful "two-point" landing.

Have a look at the photo of Mrs. Medland trying to thread the needle, looks like it slipped and went through John's finger! That Parsons bloke did very well in this race (2nd)—somebody told him Bill McDowall was after him. The General Manager and his lady were in this event also—didn't see him finish however, must have tripped over the piece of cotton. The last thing I remember, when the storm hit, was THAT voice from the public address pleading for the participants to come and finish the tug-o-war. If I remember rightly there was not a soul in sight as everyone had ducked for cover.

All in all a very nice day and credit must be given to the organisers on a job well done. The Committee also tender their thanks to those who pitched in and gave a hand when proceedings became a little hectic. That is team spirit at its best and is indeed a pleasure to witness.

Final results in the General Manager's Trophy were:—

Machine Shop	16½ points — 1st
Engineers	5½ points — 2nd
Electrical & Powerhouse	3 points — 3rd
General Office	2 points — 4th

Look out next year, Machine Shop, these pencil-pushers are after that trophy!!



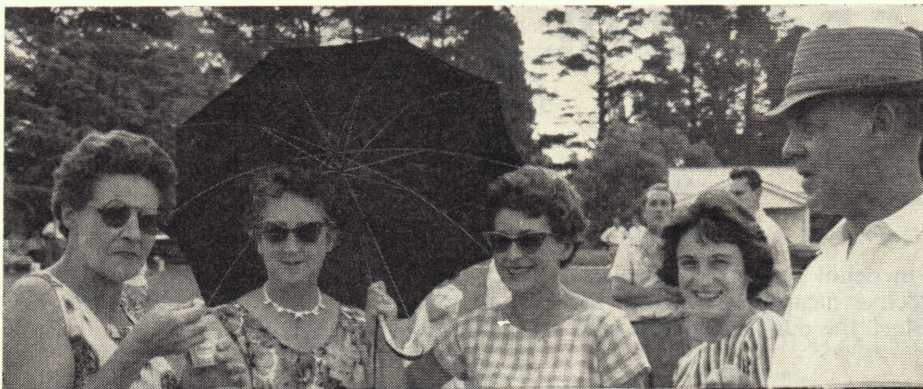
S P C
ANNUAL
PICNIC
SCENES











Remember! Safety for all —

all for Safety

S.P.C. CIVIL DEFENCE

(A further series in our training programme)

BLAST

OBJECT

1. To consider in detail the effects of blast and the protective measures necessary to remove or reduce the danger which it can create.

INTRODUCTION

2. When an atomic or nuclear explosion occurs, the expansion of the hot gases in the fireball starts a pressure wave which travels outwards in all directions through the surrounding air with approximately the speed of sound, 1,100 feet per second (approximately one-fifth of a mile), whatever the power of the bomb.
3. Because of the magnitude of the pressure created in the early moments of the explosion, the rear of the wave as it moves outwards moves through a region which has already been compressed and heated by the leading part of the wave, and this enables it to move more quickly and overtake the leading part of the wave. As a result, the wave builds up into a vertical front. This moves outwards, unchanged in form, but with gradual decreasing intensity, behaving like a living wall of compressed air. This wall is often referred to as the "shock front".
4. The abrupt rise in pressure at the wave front is followed by a gradually decreasing pressure, and then by a suction phase of less intensity but lasting for a longer time. In addition, associated with the rise in pressure is an intense wind which continues with diminishing velocity throughout the pressure phase, blowing in the same direction as the blast wave is travelling.
5. At the start of the suction phase the wind reverses its direction and blows with less velocity but for a longer time. The effect of these winds is to produce forces on structures for a relatively long time after the shock front itself has struck them and passed on. However, since the pressure in the positive phase is so much greater than in the suction phase, any building which survives the pressure phase is unlikely to fall in the suction phase.

DURATION OF BLAST

6. The duration of any particular feature of the blast wave varies approximately with the cube root of the power of the explosion. Thus, if the power is increased by 500, the duration of the pressure phase is increased by about 8, since 8 is approximately the cube root of 500. The duration of the blast pressure from a 1(X) bomb is about 0.7 seconds, and applying the same scaling law, the blast pressure from a 500(X) — (10 megaton) bomb will last 5 seconds or more.

AIR BURST

7. From an air-burst bomb the blast wave strikes downwards from point of burst to the ground. When this wave reaches the ground it is reflected and since this wave travels through air which has already been compressed and heated by the direct wave, it tends to travel faster and to catch up with the direct wave. Where the reflected wave catches up with the direct wave, the two join together to form what is known as a "Mach" wave. The radius of blast damage from air-burst bombs therefore tends to be greater than with other types of burst.

GROUND AND UNDERGROUND BURSTS

8. When a bomb is burst on or near the ground much of the energy is expended in forming a crater, which, in the case of a 500(X) — (10 megaton) bomb, may be a mile in diameter and, in addition, sending a shock wave through the earth. Because of this, the blast wave in the air is reduced in power and the reinforcing effect of the reflected "Mach" wave is reduced. The maximum blast range is reduced by about 20 per cent.
9. In an underground burst much of the energy goes into the production of a shock wave in the earth and the power of the blast wave in air is still further reduced.

SURFACE, VERY SHALLOW AND UNDERWATER BURSTS

10. In the case of surface and very shallow water bursts the range of the blast wave effects may be reduced by as much as 25 per cent.
11. With an underwater burst while the range of the effective blast would be about 40 per cent. less than from a surface burst,

a strong shock wave through the water would be caused producing big surface waves which would add to the damage to harbour works and installations.

SCALING LAWS

12. As already stated in paragraph 6, various time factors connected with the blast from a powerful explosion can be estimated from the known time values of a much less powerful explosion by applying the cube root law providing the height of burst is adjusted in the same way. Thus, while the 1(X) bomb produces its maxi-

mum effects burst at a height of 1,000 feet, in the case of a 500(X) — (10 megaton) bomb the best results are obtained when the bomb is burst at a height of 8,000 feet, i.e., the height of the nominal bomb multiplied by the factor of 8, which is the approximate cube root of 500.

COMPARATIVE BLAST DAMAGE RANGES

13. The following table gives likely blast effects from 1(X) and 500(X) — (10 megaton) bombs:—

Comparative Blast Damage Ranges for 1(X) and 500(X) — (10 megaton) Bombs

EFFECT ON HOUSES	Range for air-burst 1(X) bomb 1,000 ft. high	Range for air-burst 500(X) — (10 megaton) bomb 8,000 ft. high	Range for ground-burst 500(X) — (10 megaton) bomb
	(Miles)	(Miles)	(Miles)
Total destruction	$\frac{1}{2}$	4	$3\frac{1}{2}$
Irreparable Damage	$\frac{3}{4}$	6	5
Moderate to Severe Damage	2	16	13
Light Damage	3	24	20

EFFECT OF BLAST ON STRUCTURES

14. **Air-Burst Bombs:** From air-burst bombs the blast wave strikes downwards from the point of detonation to the ground. At or near ground zero buildings are collapsed upon themselves; with especially strong buildings, roofs are crushed or dished in, even while the walls remain standing. Further away from ground zero, where the blast wave is more horizontal, buildings are pushed over or distorted away from the explosion.

15. **Ground-Burst Bombs:** When a bomb is burst on or near the ground much of the blast energy is expended in forming a crater and in causing much higher destruction to buildings immediately around ground zero. There is also considerable shielding of one building by another, and features such as ridges, hills, etc. tend to reduce the range of damage.

EFFECTS ON PUBLIC UTILITY SERVICES

16. **Air Burst:** The effects of an air-burst bomb, whether 1(X) or larger, on public utility services would be largely confined to damage above ground. Underground gas

and water mains would be undamaged, except possibly where they were carried on bridges or where they were fairly close to the surface and liable to damage by the collapse of heavy masonry.

17. Sewers too should be undamaged. Over-ground installations and services such as gas holders, water pumping stations, electricity generating stations and sub-stations, overhead electricity, telephone and telegraph wires, buses and motor cars, would be damaged more or less severely up to a distance of 8 miles for a 500(X) — (10 megaton) bomb. Railway and tramway tracks would probably remain intact, but might be affected by debris, overturned rolling stock, adjacent fires, etc.

18. **Ground Burst:** As already stated a 500(X) — (10 megaton) bomb bursting at ground level is expected to produce a crater about 1 mile in diameter. The debris from the crater would be scattered around in a ring about 2 miles in diameter, and the remains of any structures in this area might consequently be buried. Severe earth movements might be caused at greater ranges and underground structures might be affected up to a few miles. Some underground services should survive at

ranges considerably less than that of general destruction on the surface.

EFFECT OF BLAST ON PEOPLE

19. In Japan it was found that the direct effect of blast from atomic bombs on people was found to be less than might have been expected. Where people were safe from the secondary effects of the blast, i.e., flying glass, roof tiles, bricks, etc., there was little evidence to show that they had suffered from any internal injury due to the blast itself.
20. Most of the blast casualties in this country would be caused by the indirect or second-

Between 20 miles and 13 miles
Between 13 miles and 5 miles
Between 5 miles and 3½ miles
Between 3½ miles and ground zero

This estimate applies only to built-up areas at the ranges given.

22. It will be seen at once that debris is going to be one of the outstanding problems. Movement of vehicular traffic would be seriously restricted or prevented over very wide areas, perhaps just at the time when urgent rescue work would have to be done and fires would have to be put out.
23. Blockage of roads by debris will vary with—
 - (a) Distance from ground zero.
 - (b) Width of street.
 - (c) The direction of the street in relation to ground zero, e.g., whether it is radial to ground zero or at right angles to the direction of the blast.
 - (d) Height and nature of construction of buildings fronting the street.
24. Roads with houses having front gardens or wide footpaths will, obviously, not be so seriously affected by debris as narrow streets, and many wide roads exist through which a way, at any rate for single light traffic and certainly for pedestrians, could always be opened with a small amount of effort. By means of surveys in major cities, suitable traffic routes can be earmarked for use should the emergency arise and ground zero occur at a variety of possible locations. Parks, open spaces, railway embankments, wide roads, rivers and canals, etc., might all provide entry and exit routes because of their comparative freedom from debris.

ary effects of blast, such as falling masonry, flying debris and glass. People would also be trapped by the collapse of buildings and might become casualties for this reason or even be suffocated without receiving other physical injuries.

THE DEBRIS PROBLEM

21. Due to the destructive blast effects of the bomb, it is certain that there will be a considerable debris problem. For a 500(X) —(10 megaton) bomb burst on or near the ground, the type of debris that might be encountered at different ranges from ground zero would be generally as follows:—

.....	glass and tile fragments.
.....	light to heavy debris.
.....	heavy debris.
.....	a complete covering of very heavy debris.

PROTECTION

25. The ability of a building to withstand blast depends upon its strength, its shape and number of openings into the building, which serve to relieve the pressure on the outside walls.
26. The strongest structures are heavily framed steel and reinforced concrete buildings, while the weakest are probably certain shed-type industrial structures having light frames and long roof spans.
27. The resistance to blast of brick structures is rather poor, partly because of their low resilience and partly due to their weakness against pressure from inside, since a comparatively small outward movement of the walls will cause the floors to collapse.
28. The effect of shape on blast damage is not very marked in most conventional structures where streamlining is usually absent. It is, however, pronounced with such objects as large smoke stacks and factory chimneys, which, because of the rapid equalisation of air pressure around them, are surprisingly resistant to blast. Such chimneys often remain erect when other structures near them are levelled to the ground in explosions of this kind.
29. Experience has shown that slit trenches with suitable overhead cover and sides of the trench reinforced, stand up remarkably well to blast effects. If the overhead cover is such as to provide protection against gamma rays, such a form of pro-

tection will eliminate the dangers of heat, radioactivity and blast.

CONCLUSION

30. The phenomena of blast has been explained, its probable effects on buildings, people, etc., pointed out, and reference made to the problem which will be presented to the Civil Defence services by the type of debris likely to be encountered at various ranges of blast effects.

FISHING NOTES

Fishing weather has not improved generally as previously expected, and the catches reported have been few and far between in our area.

A few anglers reported nothing except eels between the bridge at Nowra and "The Island". There were vague reports of good catches of flathead and bream from Greenwell Point.

The recent harvest of dead fish in the vicinity of Port Macquarie wasn't a bonanza, like my recent Batehaven trip. The Fisheries Dept. has warned that the fish were not fit for human consumption. It's reported that a cast was still alive after consuming some of the affected fish. Probably has only 8 lives left! There is a theory that a microscopic organism colloquially called "The Red Tide", is responsible. However, no definite reason for the death of such a large quantity of fish has been found to date.

The reason for a fish taking a bait has always intrigued me! Does the fish smell it? See it? Sense it? Or does he just pick at anything that looks like a source of nourishment? I saw a flathead and a bream caught on a plastic prawn at Batehaven recently. That **would** confound the critics! Evidently the look of the bait is an attraction.

It would still appear to me that the South West Rocks area offers the best fishing on the N.S.W. coast. The breakwater there has yielded some nice jewies, while Jim Simpson has landed some nice bream to 4lb. in the gutter at The Jail.

We are losing one of our keen anglers in the person of Jack Simpson of the Electrical Dept. soon.

Rumour reports that he has his eye on a trawler and has been studying up the nautical language ready for the enterprise. Well Jack, we thought you knew all the language necessary! Anyhow, all the best, and I'm sure that

any of your old coppers at the plant who should be down the South Coast from time to time will be just too anxious to help you swing the lead!

It is reported that George McGeochie, our worthy caravan park host at Batehaven has unfortunately passed on. He was always a most obliging chap, and ran the park to give his many patrons a pleasant holiday. We extend our sincere sympathy to Mrs. McGeochie and the family.

A word of warning to those fishing in sharky waters! January and February are months when the sharks seem to be particularly ferocious. Don't take any chances. A lad lost his leg to a shark in 2 feet of water on the North Coast recently!

Gardening Notes

By Mrs. C. Crowe



JANUARY

FLOWERS

SOW: Antirrhinum, Aquilegia, Alyssum, Anemone, Balsam, Canterbury Bells, Carnation, Delphinium, Linaria, Mignonette, Nasturtium, Pansy, Iceland Poppy, Ranunculus, Stock, Wallflower.

PLANT: Antirrhinum, Aquilegia, Carnation, Delphinium, Pansy, Stock, Wallflower, Gladioli for Autumn flowering.

VEGETABLES

SOW: Silver Beet, Beetroot, Dwarf and Climbing Beans, Carrots, Parsnips, Parsley, Swede Turnip, White Turnip, Peas, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Celery, Leek, Endive, Lettuce, Mustard, Onion, Radish.

PLANT: Silver Beet, Cabbage, Cauliflower, Celery, Lettuce, Garlic, Eschallots, Potatoes.

We have again had more than our share of rain during the past few weeks and the weeds have "romped" ahead. Give the ground a good hoeing and cultivating to keep these in check. Give the vegetable garden a good sprinkling of **complete** fertiliser, to help replace the soil elements which the continuous rain has washed away.

Stake all tall-growing plants such as Dahlias, Gladioli, Chrysanthemums and Tomatoes.

Remove all dead flowers from Dahlias and Roses to keep the flowers going.

Dig over and manure any empty garden beds in preparation for later planting.



A Roundup of the Month's Activities

MARULAN

Marulan first grade cricket team is trailing in the district competition.

However, Tony Cosgrove continues to bowl accurately and on December 23rd made a useful 77 against Colts (Goulburn) leaders in the competition.

The new tennis courts with night lighting are as popular as ever. It was bad luck so much rain fell during the Christmas break. However, visitors from many parts of the district are high with their praises for the venue.

BERRIMA

Bowls: This being the end of 1961 quite a lot of Bowls competitions have been finalised or are well advanced.

The State events considered to be the most important have been finalised in our end of the Southern Tablelands, and S.P.C. are very well represented.

In the singles Fred Armstrong is our only representative. He won from Tom Lumley of Moss Vale. Allan Fraser of Moss Vale eliminated Alwyn Counsell 31-26 in the other half of the draw.

The pairs of fours have also reached the same stage and in this S.P.C. are also represented. The two remaining pairs being Al and

Wilf Counsell and Allan Fraser and Jim Drayton.

The fours are: one skipped by Alwyn Counsell of Bundanoon and one by Harold Toose of Moss Vale.

From now on the going will be really tough. It's mostly opposition from players who have represented the State. Here's hoping!

District Pennants are in a very interesting state—Camden have won the No. 1's, Bundanoon and Mittagong equal firsts in the No. 2's and in the No. 4's at least three teams are on the top line.

Moss Vale seem to be very well advanced with their club championships and our S.P.C. players are dishing out as many hidings as they are taking.

One game well worth watching was that between Charlie Wheeler and partner and Tom Penfold and partner. Charlie won! But only just.

Moss Vale had a beginners' day and it was good to see Peter Osborne from the Machine Shop and young Jimmy Colquhoun putting them down like veterans.

Bill Rutter put up a great fight before going down 30-31 to Allan Fraser. You'll fix him next time, Bill.

Just a thought for those S.P.C.-ites and relatives who have had mixed health in 1961 and that includes you, Mrs. Galloway. Here's hoping 1962 will see things just perfect!

— PLANT JOTTINGS —

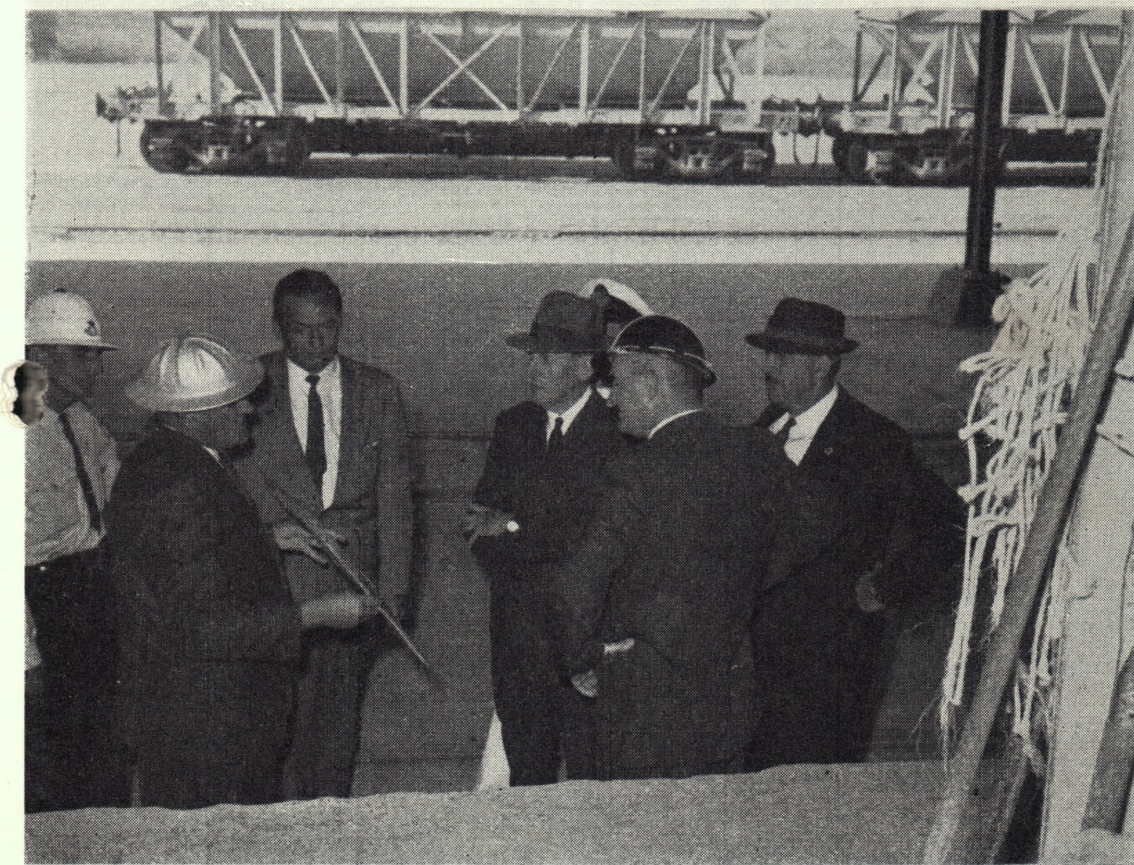
BERRIMA

On the 8th December, the Company was honoured by a visit of His Excellency the Governor of N.S.W., Sir Eric Woodward, who was conducted through the works by our General Manager, Mr. McNicol, and Works Manager, Mr. Knight.

His Excellency evidenced keen interest in

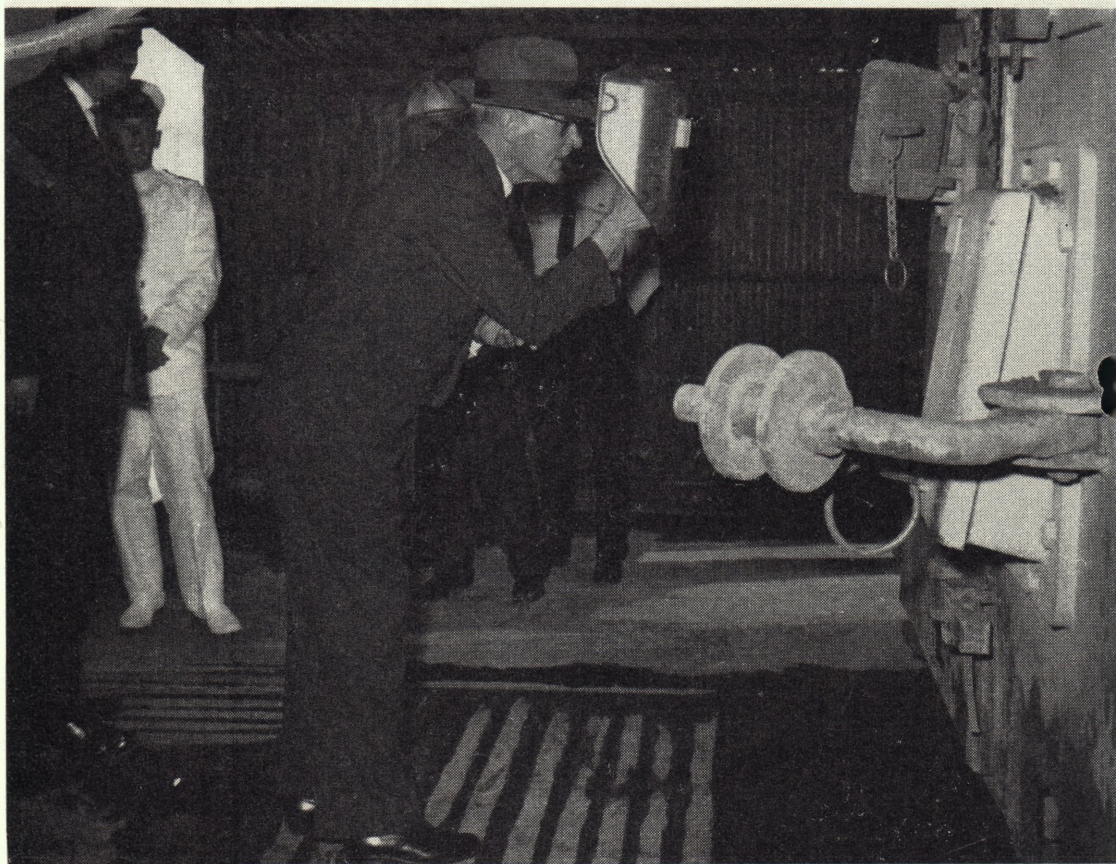
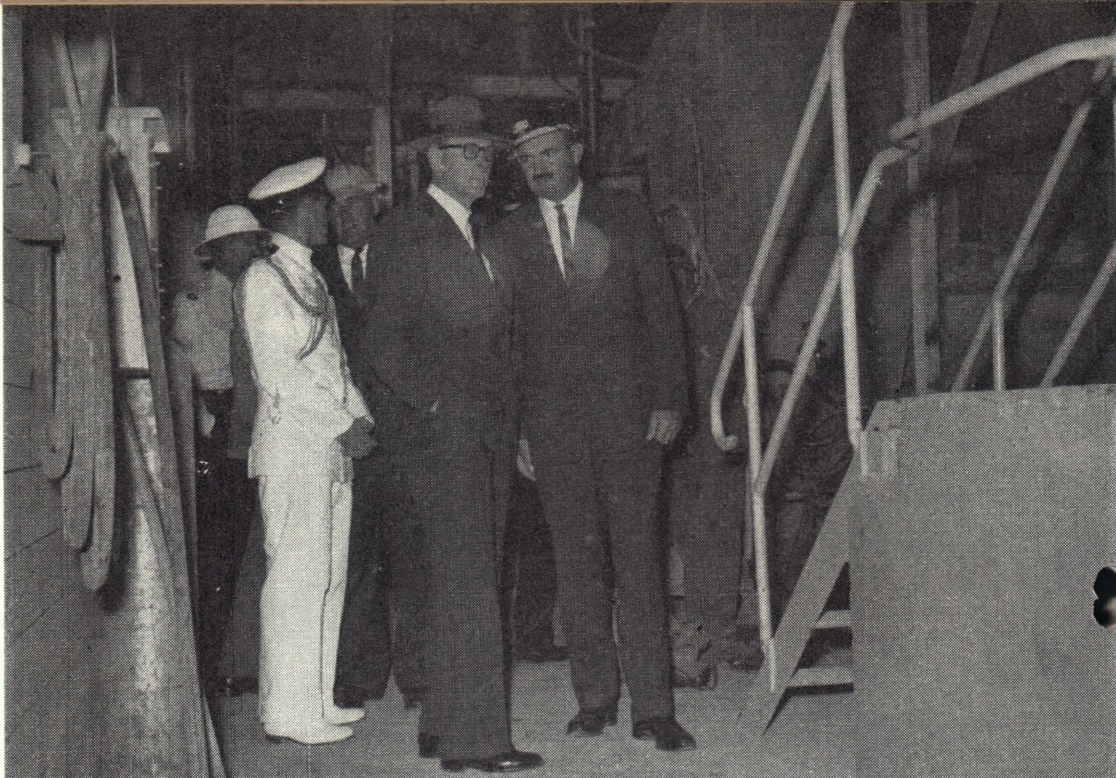
the plant generally and remarked that he was sorry that he did not have more time to spend on his tour. However, he managed to see the more important features of the plant before continuing to Moss Vale where he officiated at the opening of the R.S.L. Club's new premises.

The next two pages show some photos taken during His Excellency's tour of the works.



Top: *At the feed end of No. 4 Kiln.*

Bottom: *At the Stockhouse.*



Top: *Inspecting the Cement Mill.* Below: *His Excellency shows interest in the burning zone of No. 4 Kiln.*

Part of the surface installations at the colliery will get a face lift during the Xmas shut-down period.

The clipping house at the top of the incline is to have new decking installed to replace the existing installation which has been in use since the building was first erected in 1929. The job has certain difficult features in that the foundations have to be installed without dismantling the building superstructure. The boys at the colliery also had the unenviable job of cleaning out an accumulation of grease which had built up over the years on the underside of the decking.

MARULAN

New Store Open

Cooper's new store is open for business.

A last minute rush by Mr. Cooper and the Contractor, Mr. Sid McFarlane, enabled the doors to swing open for business on the Friday before Christmas.

Many visitors went from Marulan and surrounding areas to inspect the modern premises and the large stock of goods.

Mr. Cooper says he is selling at Goulburn prices.

The old store will be demolished.

When moving some of the old stock from the store, Mr. Cooper found cigarettes and tobacco which he bought when he acquired the business nearly 30 years ago.

Safety Pays

The Safety First Campaign at the Quarry is showing worthwhile dividends.

This year there were 33 lost time accidents compared with 57 in 1958, 48 in 1959 and 41 in 1960.

In December there were no lost time accidents.

Extensive plans are held for a more vigorous campaign in the New Year when it is hoped that a much bigger improvement will be registered.

Personal Pars — Heard on the Grapevine

BERRIMA

Things have been fairly quiet over the Xmas period and I found it almost impossible to track down any news for this column. No doubt there would be many little items which occurred, but the participants are carefully guarding their probable transgressions.

* * *

A coincidence worthy of mention involved two of our employees, Mrs. Margaret Larsen and Graham Carey. Both sustained injuries requiring medical attention and the coincidence was that:—

- (a) The injury sustained by both was on the inside of the left wrist.
- (b) Both injuries required stitches.
- (c) Both injuries occurred at almost identical times of the day (9.30 a.m.).
- (d) Both injuries were caused by breaking glass—Margaret's with a broken plate—Graham's with a broken bottle (only water I might add).

The only inconsistency was that the accidents happened on different days. We are also pleased to report that both people returned to work without losing any time.

* * *

Pictured is Miss Susan Hare of the General Office who started with the Company some months ago. If ever we start a Miss S.P.C. contest Sue will no doubt be the General Office entrant.



COLLIERY

The boys at Medway departed for all points of the compass over the Xmas shut-down period with very little news filtering out on their doings during December. More about them next month when they should have some interesting items to record.

MARULAN

The Chief General Manager of B.H.P., Mr. Ian McLennan, visited the quarry on an inspection in December.

* * *

Mrs. Bud Noble, widow of Arthur, who was for many years paymaster at Marulan South, will next month marry Bill Cleary, a Sydney P.M.G. postal official.

* * *

Some really big ones were caught recently by Allan Gutzke and "Tex" Cooper during a fishing trip to Narooma. Usually their luck is out and they have to be satisfied with fish caught with silver "bait". But this time they handed around some of their catch to friends to prove they were lucky.

* * *

Congratulations to Allan Chaplin and Anne on the birth of a son, Trevor; their first child.

* * *

Shift foreman, Alex McCurtrie, has been acting General Quarry Foreman in the absence of Cec. Cluney.

* * *

The holiday season has depleted the ranks at the quarry. Among those absent were Cec Cluney (a fishing trip to the South Coast), Tom Sharkey (Sydney), Apprentices Myles Greswick and Eddie Cooper (Coolangatta), Leading Electrician Jim Galloway (Cronulla).

* * *

Local schoolmaster, Alf Diemar, is also away at his favourite fishing resort at Port Stephens.

SYDNEY

The grapevine reached to Sydney during the Xmas period with myself perched on a limb.

The occasion was a break-up party for the people at our Sydney Office and I thought that it would be an excellent opportunity to get some pictures. After all, they are an important part of our organisation and why shouldn't they get a corner of our magazine?

Festivities were well under way when I arrived hot and thirsty after battling the Sydney Xmas traffic for 2 hours.

Miss Atkinson was doing a marvellous job with the refreshments (solid variety), whilst Barry Peck was equally proficient with the liquid type.

Phil Dudley was holding forth on the colour qualities of Judy Lilyman's dress, and Judy was flourishing a packet of black Russian cigarettes for all and sundry to try.

The young lads of the office—must excuse me fellows, for not remembering all your names were busy entertaining the ladies and later on I witnessed a demonstration of the TWIST—a fascinating gyration of body and limbs.

Mr. D. W. McLaren introduced Mr. J. A. Macpherson, a Director of Southern Portland Cement, who thanked the members of Sydney Office for their efforts over the year and pointed out that the introduction of No. 5 Kiln would enhance the company's prospects in years to come.

Mr. Macpherson extended to all at Sydney Office, the compliments of the season and best wishes for the New Year on behalf of the Chairman, Mr. A. A. Parish, and the Board of Directors.

The pictures following, I hope, will bring us somewhat closer to our friends in Sydney who share our troubles and our triumphs.

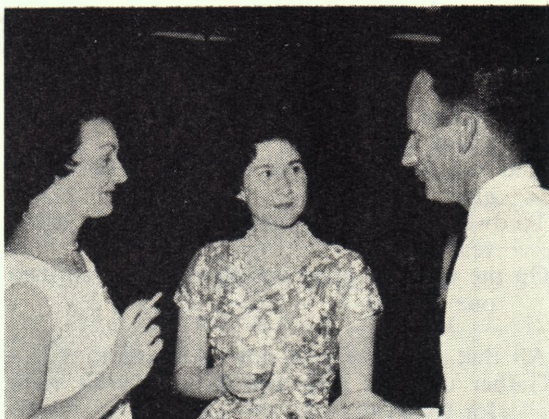


Above: Mrs. Farrell, Mr. J. A. Macpherson and Miss Dawn Geddes
Below: Allan Bailey and Alan Beck





Miss Judy Lillyman and Les Edwards



Mrs. Farrell, Dawn Geddes and Barry Peck



Miss Dianne Handley



Eric Truran, John Angelini and Phil Dudley



*Mr. Barry Peck, Mr. D. G. McLaren, Danny Lee
and Miss Helga Atkinson*

Ode to the New Year

The festive season's over, it's New Year once again,
And still we search our conscience, though it gives us pain,
To dwell awhile with rueful smile, in the brave year '61
On the way our good intentions have vanished one by one.

All that is in the past now. All hail to '62.
Gather up your clay and stylus, there's work for us to do.
For soon we'll have Utopia, if we just up and go,
Of that you can be certain—the politicians tell us so.

Those New Year resolutions we all sit down to make,
We will resist temptation, somehow the effort make
Of our lives a paragon of virtue—lay off the smokes and booze,
Upon the dogs and horses, will not our money lose.

Husbands wash the dishes, mind the kids as well,
Wives not to nag your partners. Ah, life will be so swell.
Young men will save their money, it's just as well they might,
For the young girls are resolved to stay in at night.

Now let's all take a warning, before we go too far,
In case by tomorrow morning, there's moaning at the bar.
Virtue brings its own reward, there's no doubt this is right,
Yet the greatest of all headaches, is a halo that's too tight.

Just one more resolution before we turn the page—
To all you narks and pessimists we here throw down the gage,
In letters high across the sky, for everyone to see
Here shines our resolution from us at S.P.C.

Let PRODUCTION be your watchword throughout the coming year.
Economists will raise the cry—prosperity is here!

Smiles will light the workers' dials, maybe they'll be contented,
The stock exchange in its report—credit to be extended!

Dividends and bonuses, with glowing press reports,
Directors meeting, hands to brows, give out noble thoughts,
Executives will all move in for their share of perks,
Accountants also will look into new taxation lurks.

Now all this prosperity has only just begun,
Let's all forget antipathy and all work in as one.
Peace on earth, goodwill to men, is what good book says,
But dividends and bonuses, let's pray they're here always.

No matter where you travel, be it east, west, north or south,
You always find some silly cow, who likes to shoot off his mouth,
Who stands upon his hind legs, brays like any ass,
"We don't want your flamin bonus"—
Well give it to me instead.

SALVO JURE.

MORE LAUGHS

Vacation time was suntan time as far as Joan, an admirably proportioned secretary, was concerned, and she spent almost all of her day on the roof of her hotel sapping up the warm sun's rays. She wore a bathing suit the first day, but on the second, she decided that no one could see her way up there and she slipped out of it for an over-all tan. She'd hardly begun when she heard someone running up the stairs; she was lying on her stomach, so pulling a towel over her derriere, she continued to recline as before.

"Excuse me, miss," said the flustered little assistant manager of the hotel, out of breath from running up the stairs. "The Hotel Plaza doesn't mind you sunning on the roof, but we would much appreciate your wearing your bathing suit as you did yesterday."

"What difference does it make?" Joan asked rather coolly. "No one can see me up here and besides, I'm covered with a towel."

"Not exactly," said the embarrassed little man. "You're lying on the dining room skylight."

— PUZZLE PAGE —

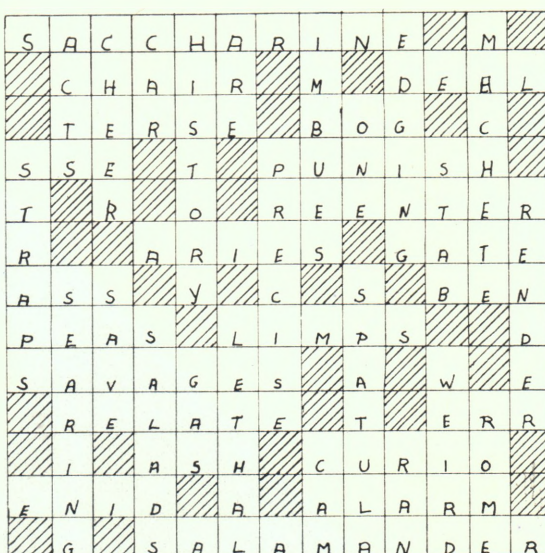
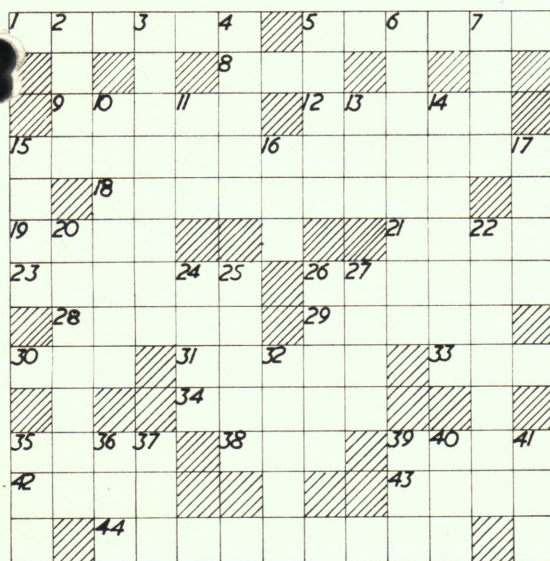
The result of problem No. 34 is shown at right. This month we gave Jack Kirk the privilege of drawing the winner's name, which turned out to be Keith Larsen.

Congratulations, Keith!

PROBLEM 35

Across:

1. Release from captivity
5. Continue
8. Turkish commander
9. Appendages
12. Falls in drops
15. Cool
18. Restless
19. Excavate
21. Country
23. Limits
26. Genus of plants
28. Item
29. Obstinate devotee
30. Madame (Abbr.)
31. Eastern peoples
33. Constrict
34. Soup
35. Habituated
38. Peer
39. Curved
42. Emperor
43. Constellation
44. Separating into component parts



Down:

2. Against
3. Embarkation
4. Corruption of master
5. Parts of a circle
6. Twisting into threads
7. Be obliged
10. Like an ass
11. Flow against
13. Species of deer
14. One who serves his country
15. Embankments
16. Animal enclosure
17. Volcano in Sicily
20. Set down separately
22. Deeds
24. Snare
25. Sweet liquid
26. Church
27. Elevate
32. Put in order
35. One (Fr.)
36. Time
37. Spanish title
39. Cake
40. Unit of work
41. Strike lightly

PS

SPC

Vol. 4, No. 2
FEBRUARY, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN — BERRIMA — MEDWAY — SYDNEY

GENERAL MANAGER'S NOTES

To assist all of us to reduce the number of accidents and injuries which are occurring in the Works, Quarry and at the Colliery, a Safety Training Course for all foremen and supervisors has been inaugurated. There will be four courses each of one week's duration.

The objective is to train our supervisors to take a more positive approach to accident prevention by trying to establish a more effective control of the factors which lead to accidents. The supervisors and foremen will then be better fitted to train the men working under them in habits of safety thinking and in habits of doing their work in such a way to encourage only one way of doing a job and that is the safe way.

A scheme of accident prevention is something that must be kept in the forefront of everyone's mind throughout the whole of his working shift and is not a problem to which attention can only be given intermittently. Everything we can do either individually or jointly to prevent human suffering is a job of work worthy of our best endeavours.

There must never be a thought that anything in our policy is more important than personal safety. We have a policy of safety, let us see that that policy is worthy of its name in that we make sure that safety does come first on every occasion.

S.P.C. MONTHLY NEWSLETTER

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BERRIMA, N.S.W.**

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M. D. Hauber

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● **COPY DEADLINE**

1st of the Month

Vol. 4, No. 2

FEBRUARY, 1962

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Puzzle Page	Back Cover

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MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	MISS J. LILLYMAN

- Contributions -

GARDENING NOTES	Mrs. C. CROWE Berrima
-----------------	--------------------------

EDITORIAL

Dear Readers,

As you can see by this issue my camera has been having a rest, as a matter of fact it has been away for repairs. The picnic scenes were apparently too much for its delicate mechanism!

Easily the brightest spot in this month's news is the fact that the whole plant ran 30 days without a lost time accident. This is most pleasing in view of our current safety programme and our grim record last year. It would appear that most people are co-operating and giving that little extra thought to their work. If this is the case then you can be sure we will enjoy a fine record for 1962. Keep up the good work.

I am hesitant about harping on a particular subject but feel I must say something about this problem. I am still not getting the flow of information necessary to provide the newsy items for the magazine. Those personal items of interest are the ones I'm after so remember, if you have any items of interest, let me have them immediately. We have a nice little magazine now (if I can believe the comments I've heard), so let's not have it get in the doldrums.

Until next issue,

Yours,
The Editor.

Five Minutes Safety Talk

Most readers are aware that this magazine reaches them about 14 days after it is edited. In some respects this creates a problem in reporting and in the past I have been a bit wary in quoting accident figures for, by the time the book reaches you the plant figure has changed.

However, I feel that we are fast approaching the time when accidents will be so far apart that this will no longer be a problem. Let's try and keep it that way.

Well her goes! To date there have been no accidents for 1962. What I would give to be writing this same sentence in December this year! Why not?

To round off let me quote some interesting extracts from other publications on safety. You might call them "funnies" but nevertheless, safetywise they make much sense.

Extract No. 1

Some wrong thinking exists with Supervisors that accident prevention work takes up too much of their time. This could only be an excuse, for accident prevention work should and is done in conjunction with normal everyday duties.

It is, by no stretch of the imagination, a separate function to production activities. If anyone has the impression that these duties of preventing accidents are a separate and additional function to production work or are long and tedious, he is mistaken.

2. Do You Know?

Women who wear nylon underwear are potentially explosive because of nylon's characteristic of gathering charges of static electricity.

This problem could possibly be dangerous in an operating theatre, a petrol refinery or a chemical works.

Tests carried out in the U.K. by the Royal Society for the Prevention of Accidents, showed that charges of up to 600 Volts could be built up after a girl had walked 25 yard while wearing nylon underclothes.

This is because the nylon generated static electricity when it rubbed against the body.

When the wearer rubbed against a metal object, a spark was produced, which was capable of igniting an inflammable atmosphere. (Ed. comment: I could ad-lib on this theme for hours but how about this one!) Tactless gatekeeper at petrol refinery to visiting Ladies Auxiliary: "Good afternoon ladies, I'd like to inspect your underwear before you go in."

This type of accident is not outside the bounds of possibility for this works as men are now wearing nylon underwear.

3. Your Feet

If you are a 12 stone male with an average job, your feet carry you around about 7½ miles per day and take a pounding of about 1000 tons. If you are the little woman around the house, credit your feet with about 10 miles and 1500 tons of jolts.

Girls who wear those.....?? stilt heels really give their feet something to scream about and most certainly do stilt heels make the Safety Boys have some dreadful nightmares.

For every ¾" of heel height the body is thrown forward 2" out of natural line, so the muscles at the backs of the legs and the buttocks and back must act to compensate this out of balance.

—acknowledgements to Mr. R. S. Barton,
Accident Prevention Officer,
Edward Lumley & Sons (N.S.W.) Pty. Ltd.

Personal Pars — Heard on the Grapevine

BERRIMA

Results of the 3rd term examinations for fitting and machining apprentices have been received by Master of Apprentices, Bill Saker and on the whole good marks were obtained by all lads.

Top scorers amongst the S.P.C. students in various stages are as follows:—

Stage 1. Miles Creswick (Marulan)

Stage 2. Max King (Berrima)

Stage 3. Bob Jeffrey (Berrima)

Stage 4. Ian Mackey (Berrima)

Congratulations lads and we hope you will keep up the good work.

Another outstanding result was gained by John Hargrave (Marulan) who is a carpentry and joinery apprentice.

John recorded an excellent pass with marks of 87, 89 and 78 in the three subjects. Congratulations, John!

NEW STARTERS

During the month seven new Apprentices commenced with the Company, names and location are as follows:—

Fitting & Machining

C. Boyd — Moss Vale

P. Carey — Bowral

R. Vincent — Berrima

W. Percival — Marulan

Electrical Fitting

P. Lewis — Bowral

R. Waide — Moss Vale

G. Pilley — Marulan

We extend to these lads a hearty welcome and hope that their stay with S.P.C. will be a long and happy one.

* * *

A record was established during one lunch hour by the boys playing dominoes. Fred Bonnar and John Medland were defeated 9-0. Champions of the day were Liol Bush and Bill Rutter.

Fred and John are out for revenge now.

* * *

A gathering of workmates in the lunchroom farewelled Bert Thompson during the month. Bert has retired after 25 years with the Company and as a token of appreciation for services rendered he was presented with a gift by Mr. L. C. Knight, Works Manager.

The picture below shows Bert receiving congratulations from Mr. Knight. Best of luck Bert in your retirement.



COLLIERY

To Wally and Joyce Traynor—a son, Adam, at Milton Park, Bowral.

Congratulations to both of you!

* * *

June Beatton, daughter of Bill, is recuperating at Bowral Hospital following an appendix operation. Our best wishes June for a speedy recovery.

* * *

Mrs. Sandy Galloway is also recuperating after an operation. Sandy and wife have just completed a holiday at Cronulla. We hope you are feeling A1 Mrs. Galloway.

* * *

Wilf Napper retires from the Company in July and is preparing for a marathon tour through various parts of N.S.W. Wilf is the youngest of twelve children and will be taking this opportunity of visiting his many relations.

Wedding bells for Rodger Seville during the Xmas holidays. The bride was formerly Miss Barbara Moore of Mittagong. Following a caravan honeymoon the happy couple plan to make their home at Mittagong.

George Fenamore is having the time of his life lately. Appears George is the owner of a particularly wild heifer which has been running loose around Berrima. Bon Blair made one unsuccessful attempt to lasso the critter and still the chase goes on. Good hunting George!

SYDNEY

Everyone in Sydney office is sorry to hear that Les Edwards will be leaving us. Les is following his brother's footsteps in joining the Ministry and in preparation will be doing an Arts Course at Sydney University. Best wishes Les in your chosen profession.

Talking of Universities, S.P.C. Sydney office will be well represented this year in the academic field. Allan Bailey and Judy Lillyman will be attending Sydney University doing part-time Degree courses in Economics and Arts respectively, Alan Beck will be doing Accountancy at the Technical College, with Diana Handley also at the Tech. doing Stenography. On the sly, I believe Barry Peck is studying some cost accounting. Condolences to the rest, with these "bright lights" sprouting their newly gained knowledge.

I hear that Harold Ball of Miranda Store went on a very rough fishing trip with some mates recently down the South Coast. The story goes that Harold won the booby prize—a mouse trap—Best of luck Harold; may your "micing" be more successful than your fishing.

Ian Hewitt has just returned from a well-earned holiday. This year the family took a caravanning trip north to Hawks Nest for two weeks and recuperated with a pleasant fortnight at The Creel, near Jindabyne.

Great controversy has been started with the suggestion of an entrant for a possible Miss S.P.C. contest. The girls in Sydney Office are willing to let Berrima have the first female nomination, but its different on the male side. If a Mr. S.P.C. contest were instituted Sydney must lead the field, or so the "young bloods"

think. Already three of them have nominated themselves for the position.

In honour of Alf Zarb's (Cooks River Storeman) forthcoming marriage a more cynical storeman—married with five children—offers the following anecdotes:—

- (a) Marriage is a necessary thing. There should be no family without it.
- (b) There are three rings involved in marriage; engagement ring, wedding ring and suffer-ring.
- (c) Marriage being an institution is recommended to all who wish to be institutionalized.

MARULAN

Italians Entertain

A most enjoyable evening was spent at Marulan South Hall on January 20th when the Italian members of the Electrical Power Transmission Company gave a party to local residents.

They said the party was in appreciation of the many kindnesses shown them during their stay in Marulan.

They are working on the huge power line from the Snowy to Dapto and have been billeted in Marulan for the last 10 months.

Many of the men, who will be camped in the Moss Vale-Robertson area for most of the winter months, have been with the company in Australia for six years working on other contracts.

Leading Hand Fitter Jack Read and family spent their annual holidays motoring through the Riverina along the Murray Valley Highway to Adelaide and back through Melbourne.

The new policeman for the Marulan district, Constable Ted Langley, has arrived. His services were immediately sought to investigate a series of robberies in the village, including a break into Les Cooper's new shop.

We all hope that Snowy Karpuik will soon be around again. He was critically injured when his car crashed on the Marulan South Road on the night of 18th January. He is in Goulburn Base Hospital.

Mr. A. J. Chaplin, who retired last year, has left Marulan South with Mrs. Chaplin to reside in Goulburn.

Those who will attend the Accident Prevention Course at Berrima from Marulan South are Tony Cosgrove, Cec Cluney, Vince Cosgrove, Alex McMurtrie, Trevor Pearson, Barney Creswick, Allan Chaplin and Albert Quail.

New Arrivals

Congratulations are being received by Tony and Mrs. Cosgrove on the birth of a son,

Phillip; also Ron and Mrs. Smith, a daughter; and Bob and Mrs. Fordham, a son.

* * *

Former quarry driver Gordon McCallum was married in Marulan on 27th January to Margaret Byrne, whose hometown is Nerriga. Gordon is the son of Bill, the quarry storeman.

THE SNOWY SCHEME

Progress Statistics

Readers will no doubt be interested in the following recently published statistics on

progress of this mighty scheme. S.P.C. have had a small finger in this pie and hence our articles from time to time.



Major Dams

Height
(feet)

Storage
(acre feet)

* Eucumbene	381	3,860,000
* Tumut Pond	283	43,400
* Tantangara	148	206,000
* Tooma	220	23,000
Geehi	300	17,300
Jindabyne	210	560,000
Tumut 3	240	86,000
Tumut 4	300	138,000
** Blowering	300	846,000
* Completed		
** To be constructed by the State of New South Wales.		

Main Tunnels

Length
(Miles)

Diameter
(Feet)

* Eucumbene-Tumut	14	21 (circular shaped)
* Tomma-Tumut	9	12 (horseshoe shaped)
* Murrumbidgee-Eucumbene	10½	11 (" ")
Eucumbene-Snowy	15	21 (" ")
Snowy-Geehi	9	21 (" ")
Geehi-Murray 1	7½	23 (" ")
Murray 1-Murray 2	1½	23 (" ")
* Completed		

Power Stations

Capacity
(Kilowatts)

Kosciusko		60,000
* Guthega	{ present future	60,000
Munyang		90,000
Windy Creek		60,000
Murray 1		75,000
Murray 2		760,000
* Tumut 1		440,000
** Tumut 2		320,000
Tumut 3		280,000
Tumut 4		180,000
* Completed		230,000
** Nearly completed		

CIVIL DEFENCE ORGANISATION

(A further series in our training programme)

HIGH EXPLOSIVES AND INCENDIARY BOMBS, AND OTHER AIR WARFARE MISSILES.

OBJECT

1. To consider the main characteristics and effects on high explosive and incendiary bombs and other air warfare missiles, and steps necessary to reduce or eliminate the dangers of high explosive and to draw attention to the great fire potential of incendiary bombs.

INTRODUCTION

2. In the event of another war, the scale and weight of attack from the air would be heavier than any previously experienced. Until such time as atomic or nuclear weapons are used, the problems presented, including the protection that would be needed, would be of much the same order as were presented in the 1939-45 War.

3. A detailed study of the bombing raids in the United Kingdom and the allied raids on German cities has furnished us with much valuable information, not only as regards the actual technique of bombing, but, of the protective measures necessary to meet this threat. In addition, valuable lessons were learned regarding the organisation and functioning of the civil defence services.

HIGH EXPLOSIVE BOMBS

4. A high explosive bomb consists of a charge of high explosive content in a case fitted with an exploder, fuse and detonator. The thickness of the case may vary from a very thin one made of steel or some light alloy, to a heavy steel case, with an armour piercing nose for use against objectives protected by armour or thickened concrete. The fuses used to date fall roughly into two classes, those operated electrically and those which are primarily mechanical.

5. Fuses working on either the electrical or mechanical principle can be grouped in four main types:—

- (a) Air burst and proximity fuses which operate a pre-determined distance on the target.
- (b) Impact and short delay fuses which operate upon impact with the target or after only slight penetration—short delay indicating at the most a delay of a few seconds.

- (c) Long delay fuses which operate at some pre-determined time after coming to rest.
- (d) Anti disturbance and booby trap fuses which are set when the bomb comes to rest and operate when various disturbing influences are felt.

TYPES OF HIGH EXPLOSIVE BOMBS

6. All bombs are designed for a special purpose, and, broadly speaking they may be classified as follows:—

- (a) General purpose.
- (b) Fragmentation.
- (c) Blast.
- (d) Armour Piercing.
- (e) Deep penetration.

7. (a) General Purpose Bombs

This type is intended to cause damage by blast, fragmentation and earth shock. It is the most frequently used and represented about 70% of all bombs dropped during the 1939-45 War. The body is parallel sided, consisting of a steel tube having fairly thin walls to which a heavier section nose and some form of base is attached by rivets, screws or weldings. The size may vary from 100 to 500 lbs., although it may be larger in the future.

8. (b) Fragmentation Bombs

These bombs are designed to cause damage and casualties by the splintering of the case. The body may be of two types:—

- (1) Heavy steel case.
- (2) Light steel case surrounded by material which makes good fragments, e.g. steel pellets, spiral split steel, concrete.

The shape may be similar to that of a normal bomb or of unorthodox design, and may be fitted with a parachute or drogue. The size ranged from 1 lb. to 250 lbs.; similar types being dropped in clusters containing from 6 to 500 bombs.

9. (c) Blast Bombs

This type is designed to cause damage by blast only. They are constructed of thin metal and are not intended to penetrate the ground, and are, therefore, not well streamlined being frequently cylindrical in shape. They are often fitted with parachutes. These bombs are also large in size, from 2,000 to 12,000 lbs.

10. (d) **Armour Piercing Bombs**

These bombs are designed to penetrate armour plating or reinforced concrete before exploding inside the target. They have a heavy one-piece body of forged steel with a very heavy nose. They are generally of well streamlined shape and are of medium size, 1,000 to 5,000 lbs.

11. (e) **Deep Penetration Bombs**

These bombs are designed to penetrate deeply into the ground before exploding, in order to cause damage by earth shock. The body is, therefore, of well streamlined shape and made of very good quality metal, but with relatively thick walls. The bombs are of large size, from 10,000 to 25,000 lbs.

12. **Impact**

Any bomb which strikes the target, even though it fails to explode, will cause damage by its mass and momentum. The heavier the bomb and the more robust its construction, the greater will be the damage done. If a large bomb just misses a target and is of such a type that it will penetrate the ground, even though it does not detonate, enough earth shock, though slight, may possibly cause damage to the target.

13. **Blast**

Can seriously damage buildings, particularly light structures over a wide area. Walls, windows, doors and roofs may be forced, either inwards during the pressure phase or outwards during the suction phase.

Independent walls or fences may be toppled over. Trees are often stripped of their leaves and branches, but tree trunks, chimneys and other well anchored objects of small surface area around which the blast can easily flow are frequently left undamaged quite close to the explosion.

14. **Fragmentation**

Fragments from bombs, beside inflicting casualties, can cause structural damage. Bomb splinters vary in size from very fine dust particles to sections weighing a number of lbs.

15. **Earth Shock**

When a bomb explodes below the surface of the ground, the gases formed expand rapidly. They not only move the earth bodily, but also set up a series of shock waves through the earth and any objects in contact with it. Typical effects of earth shock are:—

- (1) Underground pipes and cables broken.
- (2) Cracks in the ground surface.
- (3) Small rigid objects moved bodily without suffering any structural damage, but larger and less rigid structures badly damaged or completely collapsed.

- (4) Walls and roof broken away from the main structure, afterwards collapsing or showing characteristic earth shock cracks.

- (5) In contrast to the effects of blast, chimneys and similar external features are the first to suffer.

OTHER AIR WARFARE MISSILES

16. **Guided Missiles**

Practically any type of bomb can be transformed into a guided missile by the addition of wings or fins and some sort of guiding device. The majority of the guided missiles used have been controlled visually and guided by radio. Radar, Television and automatic homing devices are also likely to be used in the future. Rocket propulsion units have sometimes been fitted to give increased range and speed. A typical example of a guided missile was the German radio-controlled jet assisted glider bomb. This particular missile was intended primarily for use against shipping, but similar devices, both smaller and larger, have been produced for a variety of purposes.

17. **Flying Bombs**

The German V.1. was the best known of this type of missile. A monoplane, constructed largely of thin sheet steel and plywood, it was propelled by an impulse duct petrol driven motor. The direction, altitude of flight and range were governed automatically by pre-set control. The war head contained about one ton of explosive in a thin case. Missiles of this type could be easily modified to contain other forms of main filling.

18. **Long Range Rockets**

The German A.4. rocket, commonly known as the V.2., was the best known of this class of missile. Unlike the flying bomb which required a long and stationary launching ramp, the V.2. could be fired from any piece of reasonably hard ground which was accessible to heavy transport. This rocket reached a height of 70 miles and descended at a speed of 1,750 miles per hour.

19. **Parachute Mines**

Sea mines were frequently dropped from the air during the 1939-45 War, and either by accident or design occasionally fell on land. The general shape of construction of the air-dropped sea mine was usually similar to that of a blast bomb. A parachute was nearly always fitted. The mine case was usually very thin and contained a heavy charge of H.E., which caused much blast damage. A variety of fusing devices was employed, some of which made it dangerous even to approach an unexploded mine.

20. Small Anti Personnel Bombs

These may be dropped in very large numbers. They usually remain on or near the surface, and, if unexploded, may still be dangerous. A typical example of this type of bomb was the German 4 lb. "Butterfly" bomb. Some were designed to explode on or before impact. Some were fitted with long delay and some with anti disturbance fuses. So sensitive were the latter that a bomb exploding could detonate another 25 yards away. The explosive content weighed $\frac{1}{2}$ lb. Splinters were lethal at 50 yards and would wound up to 150 yards. The bombs were dropped in large numbers from containers which opened in mid-air. One modern bomber could carry 10,000 bombs of this type and size.

PROTECTION

21. (a) In the open.
- (b) When very near to buildings or other cover.
- (c) When inside a building.

22. (a) In the Open

A bomb or other missile which is going to strike very near to you, if audible at all, cannot usually be heard for more than a couple of seconds. The worst and most dangerous thing you can do is to run for cover, unless you are within one jump of it. Throw yourself flat wherever you are. Lie face downwards, resting on the elbows and clasp your hands behind your head. The chest should be very slightly raised off the ground so as to prevent internal injury from earth shock. Since blast splinters and debris tend to fly outwards, if you can manage to roll into the gutter, do so, as the camber of the road and the curb both tend to afford protection. If caught in open country, a fold in the ground or a dip will also provide additional protection.

23. (b) When very near to buildings or other cover

A wall, archway, doorway or narrow alley may give protection. It must be remembered, however, whether indoor or out, that shock is transmitted through walls, etc., so it is dangerous to lean directly against any part of a building. From this point of view the head is the most vulnerable part.

24. (c) When inside a building

It is better to be near an inside wall than an outside one. Avoid being in a direct line with an outside door or window, as the danger from flying glass is very serious, and even interior glass can be a deadly missile. One of the safest parts of a normal room is in the angle of the chimney breast and the wall.

Chimney breasts are less liable to collapse than any other part of a building.

PROTECTION AGAINST BLAST AND SPLINTERS

25. Protection against blast and splinters from a 500 lb. medium cased bomb exploding 50 feet away will be afforded by the following materials and thickness indicated:—

Lateral protection —Reinforced concrete	12".
Brickwork or Masonry	13 $\frac{1}{2}$ ".
Earth or sand	30".
Overhead protection —Reinforced concrete	6".
Efficient brick arching	9".
Earth or sand	18".

BOMB RESISTING STRUCTURES

26. To resist a direct hit from a 500 lb. medium cased bomb, a shelter would require a reinforced concrete roof 4'6" thick and the walls above ground should be of the same thickness and below ground they should be 7'0" thick. Tunnels or caves 60'0" below ground or 40'0" in solid rock would provide equal protection. The standards quoted above would also provide protection against a direct hit by a 1,000 lb. medium cased bomb, though some damage might be caused in the compartments below the point of impact.

—to be continued.

Next month—Types of Shelters.

TEN COMMANDMENTS OF SAFETY FOR ALL EMPLOYEES

1. Thou shalt take no short cuts.
2. Thou shalt keep safeguards in place.
3. Thou shalt not use equipment without authority.
4. Remember always to follow safety rules and safe practices. If in doubt ask thy boss.
5. Bear in mind that bad use and care of hand tools causeth much suffering.
6. Keep thy footing safe for falls are the root of much evil.
7. Thou shalt not play practical jokes for they menace thy friend.
8. Take care that thy clothing be suitable to thy job.
9. Thou shalt help thy fellow worker to be as safe a worker as thyself.
10. Lastly shouldst thou forsake the first 9 commandments and get a scratch or wound, thou shalt get first aid promptly for thou shalt not neglect them.



A Roundup of the Month's Activities

BOWLS

Three more S.P.C. employees have joined the Moss Vale Bowling Club and had their first game. Jim Colquhoun, Tarn Wrightson and Eddie Johns are the new members and already two of them, Eddie and Jim, have experienced the thrill of winning their first trophy. Jim won his trophy at his second attempt but Eddie was a little quicker and secured his at his very first attempt when he won the trophy for the bowlers on the golf and bowls day, a very popular event held each year. Congratulations to you both and see that you keep up the good work.

The big event of the year for S.P.C. bowlers will be held on 4th March, when the cement makers will pit their skill against the rest of the Moss Vale members. Twenty four players will line up and no doubt the selectors will be keeping a look out to see who is in the best form so anyone interested in playing on that day should contact Jack Mott and impress the selectors by attending their club and getting themselves in form. This competition has been run twice—for a win each, the losing side paying for a chicken dinner. It will be interesting to see who pays for the dinner this year.

John Fuller went down to Alf Tomlinson 29-31 in the Club Championship after a gruelling match. While it is no disgrace to be beaten by Alf, the present club champ, we think it is nearly time we saw your name up on that board again John.

One bowler who is showing considerable improvement of late is Bill McDonnell and another, Harold Sheather, has also been noticed going on with the good work after winning the minor singles last year.

An S.P.C. four, Jack Mott, Norm Austin, Jim Dray and Works Manager, Len Knight, acquitted themselves well in the recent Southern Highlands bowls carnival.

Jim Dray and his partner Allan Fraser were successful in this end of the State Pairs. Quite a good performance and we wish them luck when they tangle with the champs from other districts.

SHIFT CHEMIST'S LAMENT

A man from restless sleep awoke,
To a jangling telephone bell.
A worried voice said, "Hello Sam?
The stone has gone to hell.
"The mullock is blocking the hoppers.
The calcium is too low,
What can I do with stone like that,
Is what I'd like to know.
"I hate to call this time of night,
And rouse you from the sack,
But I'm in a mess and all shook up.
Old Paddy's on my back.
Fifteen men on the maint'nance gang
And the kilns must be fed,
Alan Butcher's screaming for some mud
And I've broke my pencil lead.
The residue is twenty four,
Got a quick-set on the pat;
The valve is plugged on the slurry line—
Somebody's lost his hat.
The bin is heaped like an ice-cream cone.
The L.H. is mixed with the grey,
If the S.M.A. gets a load of that
We'll have the devil to pay.
The basin moisture is forty-six
Ole Blizzard's lost his fan,
Outside of that we'er doing fine
Thank you and good night Sam!"



FISHING NOTES



S.P.C. fishermen have been very active during the last month although results have not been as good as were expected. However, the elusive fish have been taken in various places with probably the best results by Allan Parker, who in company with two friends fished Burrill Lakes for 15 odd niggers to 1½ lb. and some bream to 2 lb. Currarong was visited by the Editor during his holidays and some nice bream were landed from the wreck and from the Drum and Drumsticks bream to 3½ lbs. and mowong to 2 lbs. were taken. However, the road giving access to this spot is washed out badly and a 1½ mile walk faces those keen enough to visit this spot. Furthermore it is definitely not recommended at high tide or when heavy seas are running and **DO NOT GO ALONE.**

Boats in the bay at Currarong had mixed bags (mostly very light-on) of reddies and mowong with the usual sprinkling of rock fish with one rare catch, a flying gurnard, usually confined to the deep sea trawlers. A beautifully marked fish and quite delicious. The flathead seemed to be particularly elusive with dozens of boats fishing the recognised flattie grounds with no success. Sharks were sighted in large numbers and could account for the poor fishing.

The Canal is still yielding nice bream up to 3½ lbs. and so too is Grenwell Point.

The mecca of fishermen at the moment seems to be Jervis Bay which is consistently fishing well.

Some huge sand whiting are nosing around the beaches and one catch of 57 was recorded in one of the small creeks. Unfortunately I couldn't get my contact to give specific directions to this spot—apparently he stumbled on it by accident whilst looking for worms and had himself a bonanza and wants to keep the spot to himself—most unsporting I thought.

Squire, almost to snapper size are being taken in the gutters on the northern side of Jervis Bay near the lighthouse whilst boats in the bay proper are reporting large catches of reddies and flathead. Trags are running at night but require patience and full moon—4 pounders were reported during my stay there. Two thousand pounds of kingies were taken by one boat fishing close in to Point Perpendicular, the average weight being about 6 lbs. The

owner of the boat told me that he almost killed the 4 friends he took with him this day!

With the number of fishermen increasing at S.P.C. its almost time we formed a piscatorial club. Such a club would add to the interest of the sport and enable club members to obtain first hand accurate information on fishing spots and at the same time provide keen competition with prizes being awarded for various events. Any comments anyone?

I've had the pleasure of being a guest at numerous piscatorial club outings and never have I experienced such a fine days fishing. Organisation is what does it; it does it for any sport so why not fishing. Wives can be in this too and I've no doubt there are many wives who would like to accompany their husbands on a fishing trip, but hubbie objects to baiting the little woman's hook all day.

O.K. put her in someone else's boat! But at least give her the opportunity of being in on the fun.

One particular outing sticks in my mind. The Dunlop Rubber Co. Piscatorial Club were kind enough to invite me on one of their outings. For a cost of £2 per head members were treated to a days fishing, both estuary and outside depending on member's choice—I might add 40 boats were hired for this outing—lunch and afternoon tea or liquid refreshments (2 nines!)—colossal prizes in all categories, things like biggest fish, most fish, biggest bream or flathead, greatest weight of fish and so on together with a picnic-like atmosphere and in all a fine days outing boat for the men and the women and children.

Incidentally I ran second in the visitors prize list with a 5 lb. squire; was beaten by a bloke who landed a 30 lb. groper.


OBITUARY

The S.P.C. Newsletter regrets to report the passing of Mr. A. Johnston during the Xmas holidays. Mr. Johnston was a former employee who had retired two years ago after 31 years as a coal miner with the Company. He is survived by a wife and two children.

To his family we extend our deepest sympathy and condolences.

— LET'S LAUGH —

Ten TV Commandments for Visitors & Guests:

1. Upon entering the home, guests will place a silver donation in the box provided.
 2. Easy chairs are reserved for the host, and his family. Guests may use the kitchen chairs in the back row.
 3. Guests will have absolutely no say in the choice of programmes, they will watch the family's choice without complaining.
 4. Guests will provide their own handkerchief for tear jerkers, and laugh only when the family consider the situation funny enough.
 5. Guests will not complain that the picture is too dark or too light, too fuzzy or too flickery, too this, or too that. They will not compare this set with others, the host is stuck with it anyway and look who's talking!
 6. Members of the family will not be ashamed, or cajoled into serving supper. Guests will find liquid refreshments in the kitchen (the right hand tap is the one with the cold water).
 7. Guests will stand clear at various intervals, to allow the host to sweep out the dead cowboys.
 8. Guests will leave within three minutes of programme's termination.
 9. The host reserves the right to terminate the programme without warning at any time.
-  Please do not slam the door!

GOODNIGHT.

The perfect Club Manager

The club manager must be a democrat, an acrobat and a doormat. He must be able to entertain prime ministers, pick-pockets, pirates, philanthropists and the police—and be on both sides of the “political fence”, a footballer, golfer, bowler, tennis player, dart champion and pigeon fancier. As he has to settle arguments and fights, he must be a qualified boxer, wrestler, weightlifter, sprinter and a peace-maker.

He must always look immaculate—when drinking with bankers, swankers, commercial

travellers and company representatives even though he has just stopped a “beer throwing” contest in the bar.

To be a success—he must keep the bars full, the house full, the tanks and the storeroom full, the customers full, and not get full himself.

He must have barmen who are clean, honest, quick workers and thinkers, non-drinkers, mathematicians, technicians, and at all times be on the boss' side, the customer's side—and stay on the inside of the bar. It is said that he homewrecks, takes weekly wage cheques, in other words saturates, confiscates, deteriorates and propagates.

To sum up, he must be outside, inside, off-side, glorified, sanctified, stupefied, cross eyed—and if he is not the strong silent type, there's suicide.

Gardening Notes

By Mrs. C. Crowe



FEBRUARY

FLOWERS

SOW: Alyssum, Anemone, Antirrhinum, Aquilegia, Calendula, Candytuft, Canterbury Bells, Carnation, Cornflower, Delphinium, Digitalis, Gaillardia, Larkspur, Linaria, Mignonne, Pansy, Iceland Poppy, Ranunculus, Schizanthus, Stock, Sweet Pea (Early), Wallflower.

PLANT: Anemone (Seedlings or Bulbs), Antirrhinum, Aquilegia, Calendula, Candytuft, Canterbury Bells, Carnation, Delphinium, Gaillardia, Pansy, Iceland Poppy, Ranunculus (Seedlings or Bulbs), Stock, Wallflower, Spring Flowering Bulbs such as Jonquils, Daffodils, Hyacinths, Freesias, Tulips.

VEGETABLES

SOW: Beetroot, Beans, Carrot, Parsnip, Parsley, Peas, Spinach, Silver Beet, Swede Turnip, White Turnip, Broccoli, Brussels Sprouts, Cabbage Cauliflower, Savoy Cabbage, Lettuce, Endive, Onion, Cress.

PLANT: Beetroot, Cabbage, Cauliflower, Celery, Lettuce, Spinach, Garlic, Eschallots.

Continued on page 12

N.R.M.A. MOTORING NEWS

Bridge over Hastings River

Opening of the new bridge on Pacific Highway over Hastings River has eliminated yet another vehicular ferry—Blackman's Point—which caused delays to traffic.

The new course of the road branches off the old highway nearly a mile east of its junction with Oxley Highway and then rejoins the old road 3.3 miles north of the old Blackman's Point Ferry.

The N.R.M.A. reports that this new deviation reduces the mileage between Oxley Highway junction and Kempsey by seven miles. Those wishing to visit Port Macquarie rejoin the new road two-tenths of a mile south of the bridge, travelling via Hibbard and Blackman's Point and continuing along the banks of Fernbank Creek.

Unwarranted Confidence

A threat to his own and other people's safety is the attitude of the "confident" type of driver who thinks there is no danger at an intersection at night time if no headlights are showing up in the cross street, says the N.R.M.A.

The reasoning of such drivers is that the headlights of an oncoming car always show long before the car itself reaches the cross street.

Secure in this so-called knowledge, the motorist races on. Then the one chance in a hundred occurs. A lad on a bike approaches with a light so small that it cannot be seen except from very close in, or an approaching car has no lights at all. Or a pedestrian, believing he can be seen also displays unwarranted confidence in stepping off the footpath.

The result is another road tragedy.

To drive without accident, over-confidence must be avoided.

No Petrol on Gwydir Highway

The N.R.M.A. advises motorists intending to travel on the Gwydir Highway from Grafton to Glen Innes that petrol is not procurable between these two points.

Quite lengthy delays could result from running out of petrol on this road.

The road surface consists of fair to worn gravel for 60 miles of its 99 miles length.

Care of Tyres

Attention to correct tyre inflation pressure is one of the best ways of assisting your tyres to give high mileage.

N.R.M.A. engineers say that underinflation gives rise to excessive overheating and uneven wear, and is a common cause of impact fractures and weakening of the tyre walls.

Continued from page 11

Planting should be made of spring-flower bulbs this month. If you haven't much space in the garden, plant in clumps in the rockery, always remembering that they come above ground when very little else is growing.

Roses should be summer-pruned this month. This pruning consists of removing crossing branches and spindly growths and taking off any spent blooms and seed-heads.

Disbudding of Dahlias should be continued and all dead blooms removed.

Remove all weeds from vegetable plots and dig out any vegetables which have finished bearing.

Watch for pests and diseases and deal with these immediately they are noticed. There are many sprays and dusts now on sale at stores which sell garden requisites, which may be used. Make sure you read and follow the instructions given on the labels!

Give lawns a dressing of sulphate of ammonia this month, to put them in "good health" before the Winter sets in, and keep them mown to prevent any weed growth setting seeds.

What a busy Summer the birds have had! Seeds, berries and "wogs" in plenty in our district! Many of the birds have raised two and even three broods of young ones this season. The Yellow Robins and Honey-eaters sing all day long and in the late afternoons the Rollers or Dollar-Birds can be heard and seen overhead, catching moths and beetles.

Encourage our native birds to visit your gardens by careful planning and planting. They will help to keep the insect population under control!

Any Queries?

SOUTHERN PORTLAND CEMENT LTD. ENTERTAINMENT FUND
INCOME AND EXPENDITURE ACCOUNT for TWELVE MONTHS ENDED
31st DECEMBER, 1961

To Members Subscriptions		By Expenses as under	
and Donations	£596.18.0	Prizes and gifts	£245. 4. 0
Interest	16. 0.11	Food and supplies	151. 8.10
		Hiring charges	17. 0. 0
		Insurances	20. 8. 0
		Expenses Sydney	17.18. 4
		Bus transport	16. 1. 4
		P.A. radio	5. 5. 0
		Petty items	3. 9. 1
			<hr/>
			476.14. 7
		Surplus transferred	
		to accumulated	
		Funds Account	136. 4. 4
			<hr/>
	<hr/>		£612.18.11
	£612.18.11		<hr/>

BALANCE SHEET AS AT 31st DECEMBER, 1961

Liabilities		Assets	
Accumulated Funds Balance		Commonwealth Savings	
1.1.60	123. 1. 5	Bank of Australia	251. 9. 9
Surplus for year	136. 4. 4	Accured interest	7.16. 0
	<hr/>		<hr/>
	£259. 5. 9		£259. 5. 9
	<hr/>		<hr/>

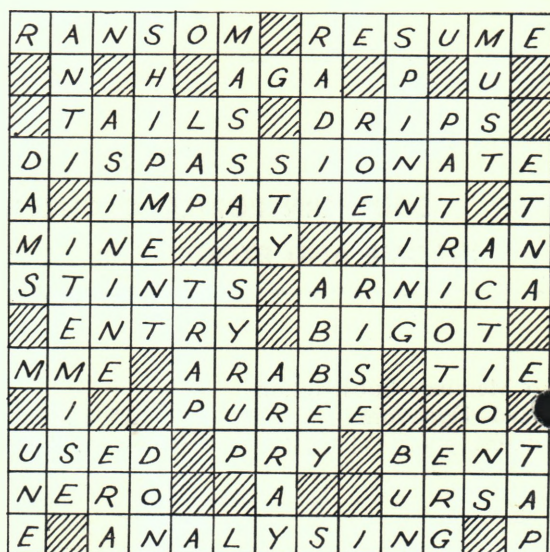
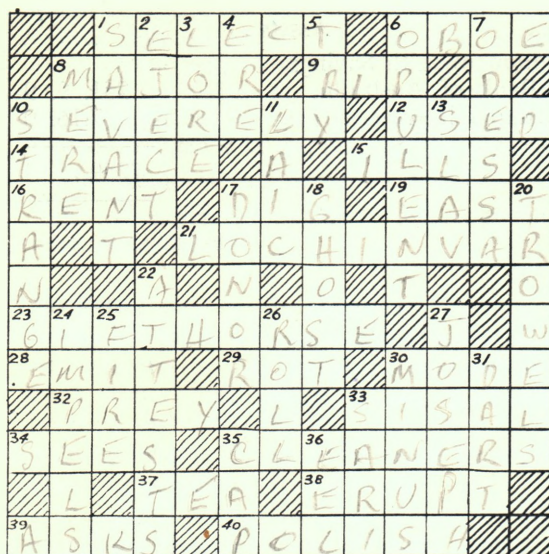
- PUZZLE PAGE -

The result of Problem 35 is shown at right. You couldn't believe it but Jack Kirk's name came out of the hat again. Jack had already told me before he left that if he should win I was to give the prizemoney to Keith Larson and Jim Dray. Congratulations fellows!

PROBLEM No. 36

Across:

1. Choose
6. Instrument
8. Rank in the army
9. Tear
10. Harshly
12. Accustomed
14. Copy
15. Sickesses
16. Hire out
17. Excavate
19. Direction
21. Walter Scott hero
23. You shouldn't look it in the mouth
28. Issue
29. Decay
30. Style
32. Victim
33. Type of grass
34. Notices
35. Charwomen
37. Meal
38. Burst forth
39. Questions
40. Give a bright surface to



Down:

1. Learned man
2. Cast out
3. Doctrine
4. Before
5. Endeavour
6. Wealthy
7. Ukranian seaport
8. Pure
10. Unusual
11. Pertaining to the people
13. European
17. Contributor
18. Spirit
20. Tools
22. Bears witness
24. Urges forward
25. Conflagration
26. Turn
27. He had a coat of many colours
30. Less
31. Weapon
33. Hindu woman's garment
35. Headwear
36. Fish

PS

SPC

Vol. 4, No. 4

APRIL, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.

MARULAN — BERRIMA — MEDWAY — SYDNEY

GENERAL MANAGER'S NOTES

The Works section of the 1961 Safety First Competition conducted by the Cement and Concrete Association of Australia was won by Australian Cement Limited, Geelong who narrowly beat Southern, with Adelaide Cement a very close third. We offer our congratulations to Australian Cement who improved considerably on their 1960 performance.

Berrima's factor of 19.37 was also better than 1960 but only because the severity rate was lower as there was the same number of lost time accidents in both years.

The Works have got away to a flying start this year with only one lost time accident to date and I have every confidence that it can keep up this performance and so have a very good chance of winning back the Shield.

COMPANY	1961	1960
Australian Cement Limited	17.80	43.84
Southern Portland Cement Limited	19.37	27.54
Adelaide Cement Co. Limited	20.14	
Goliath Portland Cement Co. Limited	30.11	127.34
Standard Portland Cement Co. Limited	34.45	55.07
North Australian Cement Co. Limited	42.45	1,127.31
Cockburn Cement Pty. Limited	78.07	47.07
Queensland Cement and Lime Co. Limited	82.58	187.10
Gippsland Industries Limited	118.61	648.44
Kandos Cement Co. Limited	133.15	733.90
South Australia Portland Cement Co. Limited	265.39	425.12
Swan Portland Cement Limited	722.48	193.68
Commonwealth Portland Cement Limited	892.52	1,502.55

S.P.C. MONTHLY NEWSLETTER

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1st of the Month

Vol. 4, No. 4

APRIL, 1962

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MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	MISS J. LILLYMAN

- Contributions -

GARDENING NOTES	Mrs. C. CROWE Berrima
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EDITORIAL

Dear Readers,

This perfect autumn weather we are experiencing lately is having favourable effects in many different ways. If it can be attributed in any way towards our fine safety record then we hope it continues. Assuredly it lifts the morale of most people and this in itself is a contributing factor to pleasant living. It enabled us also to finalise our sporting activities, namely the final of the cricket which was an outstanding success for S.P.C. cricketers. A full account of events leading up to this match will be found in the sporting news.

Our correspondent at Marulan, Barney Creswick, was hospitalised late last month, hence our lack of news from the Quarry. We all wish him a speedy recovery.

I just can't seem to get any information out of the Colliery boys. I can only assume that they don't wish to participate in our magazine. Of course I'll be prepared to back up on that statement if I get hit with a few pages of notes next month. How about it Bobby?

Our Civil Defence Organisation continues to function and the progress made by the volunteers already on our books is heartening. There is a growing concern in both the U.K. and U.S.A. regarding the virtues of present Civil Defence planning. So that there will be no confusion in the minds of readers of this section, let me point out that there is a vastly different concept on the Australian situation. You have to consider that 90% of our population is confined to the coastal fringe of Australia and coupled with the benefit of strategic warning—a distinct possibility—any plans for evacuation or thinning out of our cities is a definite move in the right direction if our aim of saving lives is to be maintained.

Let us hope we never have to put our training into practice but at least let's be prepared.

Until next issue,

Yours,

The Editor.

Did You Know?

That freshwater crayfish or "yabbies" as we know them, have been known to attack concrete walls of dams.

The name "yabbie" is much used in inland parts of the eastern half of Australia for cer-

tain destructive freshwater crayfish mainly the small species of *Cherax*. These pests, which like all of their kind are industrious burrowers often cause the collapse of earthen banks in bore-water drains, irrigation channels, and stock dams. In some cases even the concrete walls of dams have been seriously attacked. They have also created a problem by burrowing into and causing partial collapse of cement concrete facings of irrigation channels in the Murray River area.

It seems that all Australian freshwater crayfish are able to survive long rainless seasons by burrowing deeper than usual to reach parts moist enough to enable them to survive in a state of semi-animation. Some habitats are so far from permanent watercourses that it is difficult to understand how the creatures became established. It is known that they can leave one abode and travel appreciable distances to another spot, over damp ground or grass, mainly at night.

* * *

That the P. & O. Australian transport BERRIMA, 11,137 tons, was torpedoed, 18th February, 1917, when 50 miles west of Portland Bill (Dorset). Seriously damaged and sinking, she was taken in tow by H.M. destroyer FORESTER and beached in Portland Harbour.

* * *

That no existing Australian dam approaches the capacity or height of major American constructions.

The world's largest dams¹ (completed or under construction) are all in U.S.A.

They are: Acre-feet:

Location:		
Hoover	31,142,000	Colorado River
Oahe	23,600,000	Missouri "
Garrison	23,600,000	" "
Fort Peck	19,400,000	" "
Grand Coulee	9,517,000	Columbia "
Fort Randall	6,300,000	Missouri "

The world's highest dams are:—

Hoover 726ft.; Shasta, California, 602 ft.; Hungry Horse, Montana, 564ft.; Tignes, France, 592ft.; Grand Coulee 550ft.

Compare the above figures with our own:

	Acre-feet	Height
Eucumbene	3,860,000	381
Warragamba	1,678,452	415
Eildon Weir	2,750,000	60
Menindee Lakes	2,000,000	
Hume Reservoir	2,500,000	106
Miena	1,125,000	40

¹ Soviet Russia is now claiming the world's largest dam and hydro-electric station. However, no figures are as yet available.

Personal Pars — Heard on the Grapevine

BERRIMA

During the month I had the pleasure of witnessing a performance by Rus Greaves on his new Hammond organ.

This electronic organ, not as large as a piano, is capable of reproducing the most delightful music. No doubt many of you have visited some of the larger theatres in Sydney where these organs are used. The organ has an output of about 100 watts, capable of filling the largest hall and incidentally capable of breaking all the windows in his



lounge room if he used full volume whilst playing. In the short time Rus has been playing I must say he has already reached a high standard.

Congratulations, Rus!

* * *

At the Burrawang Sports Gymkhana on 24th March, David Boyd outsprinted all comers when he won the 100 yards event. Competitors in this race were from Wollon-

gong, Bulli and Dapto and were considered class runners. However, David got away to a flying start and his opponents saw only his heels the whole distance. Congratulations, David!

* * *

At the Bowral Eisteddfod late last month, two locals were represented in a record field of 230 from all parts of the State. We regret not being able to report a win on their part but nevertheless they put on a creditable performance. The two entries were Gail Fitzgerald of New Berrima, daughter of Reg (Stockhouse), and Sally Cornell, sister of Tony (Gen. Office). Only other local girl was Miss Barton of Moss Vale.

* * *

Our Works Manager is elated this morning. He has broken a record which has been outstanding since about 1934. In that year or thereabouts, the State Lotteries commenced operations and Len has been taking tickets fairly regularly over the years. He has never, repeat never, participated in a win of any description whilst holding a ticket on his own. This morning on opening up his paper to check a couple of tickets he was amazed to find that he had won £10. Congratulations, Len!

SYDNEY

A further thought from our cynical storeman on the marriage of Alf Zarb (see picture). While the cynical storeman at first thought it a foolhardy thing he now congratulates Alf, after all "what has he ever done that he deserves to escape".

* * *

Of late S.P.C. has been having a run of "bad luck" at Liverpool Store. Storeman, Ron Marshall, is in hospital having undergone an operation on his back, Kevin Murray is confined to bed with an unknown virus and Merv. Maizey who recently started with us injured his foot while unloading cement. Let's hope you'll all be back with us soon.

* * *

We especially extend our best wishes for a fast recovery to Ron Marshall who looks like having a long break away from us. Enjoy your rest Ron, you'll make up for it when you come back.

— PLANT JOTTINGS —

MORE EQUIPMENT TO HELP APPRENTICES

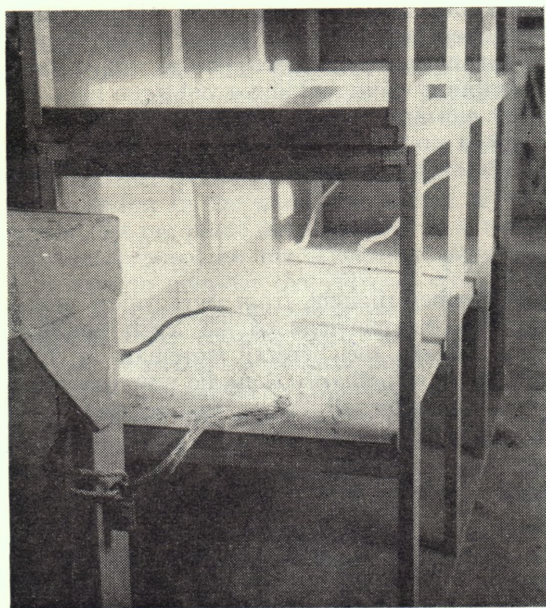
Electrical apprentices at Berrima will benefit greatly from the recently installed coil winding machine designed by John Medland and manufactured in our shop.

The equipment was designed primarily for the winding of coils for motors from 1 h.p. to 90 h.p. and will offset the usual delays in repairs to motors burnt out on the job which were, in the past, sent to Sydney for repairs!

Previously, apprentices were given only a virtual introduction to coil winding and not much more at Tech. They will now be assured of comprehensive instruction in this important field and will participate in the actual building of a motor.

WHY SHOULD THIS BE?

The picture below shows a remarkable state of affairs.



The scene is the carpenters shop where recently a set of cupboards was manufactured. The amazing thing is however, that before knocking off the carpenters have to take the precaution of chaining the unfinished work to the nearest immovable object; in this case a steel table. This daily occurrence was brought about not by the mere conjecture by somebody that this item might "go off" but by

the very fact that such items have disappeared in the past! It is simply amazing to think that this state of affairs exist.

HIGH AWARD TO APPRENTICE

Harvey Stubbings was the recipient of a unique award on the 6th April, prior to his departure from the Company. Works Manager, Mr. L. C. Knight presented Harvey with an Apprenticeship Certificate of Merit, the first one which has been awarded to an apprentice of this company. Harvey is joining the ranks of B.H.P., Newcastle and with him went the best wishes of all his friends at Berrima.

ADDED SAFETY MEASURE ON RAIL LINE

A new backshunt has been laid beside the main track below the stockhouse to provide an added safety stop in the event of rail skids being left off or failing. This added measure will safeguard the busy crossing on the Moss Vale road below the Stockhouse.

LET'S LAUGH

The teacher wrote on the blackboard: "I ain't had no fun all summer." Then she asked a small boy in the front row, "William what should I do to correct that?"

"Maybe get a boy friend," he suggested helpfully.

* * *

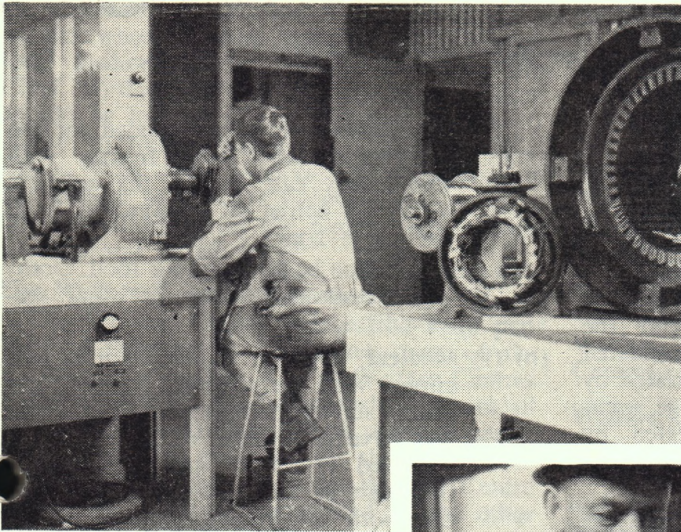
"My wife asked me to take our old cat off somewhere and lose it. So I put it in a basket and tramped out into the country for about eight miles."

"Did you lose the cat?"

"Lose it! If I hadn't followed it, I would never have made it home."

* * *

A drunk lying on the barroom floor began to show signs of life so one joker smeared a little limburger cheese on his upper lip. The drunk rose and walked out the door. In a few minutes he returned. Then he left again only to wobble back in soon after. Shaking his head with disgust he said, "It's no use, the whole world stinks."

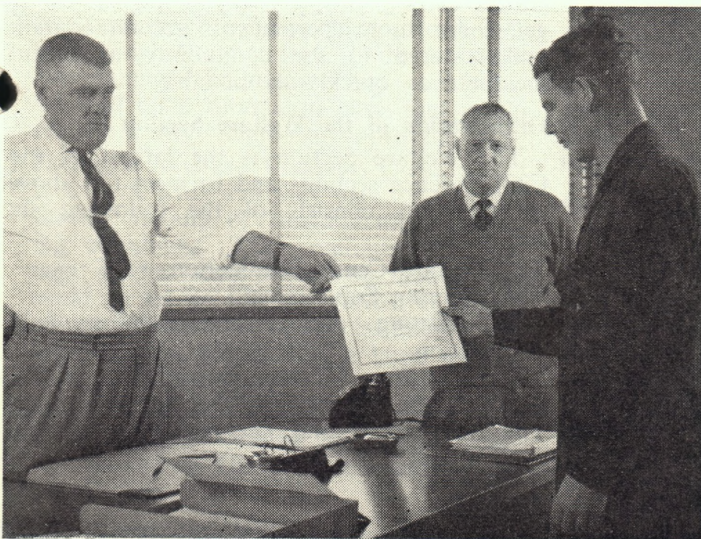


Apprentice Training.

Foreman John Medland instructing David King.



Harvey Stubbings receives his Award from Works Manager, Mr. L. C. Knight.



CIVIL DEFENCE ORGANISATION

(A further series in our training programme)

THE WELFARE SECTION

The Problem

In the event of a nuclear weapon exploding on an Australian city, many thousands or hundreds of thousands of people will be left homeless. Public utilities such as electricity, gas, communications and transport will be seriously disrupted, further adding to the problem. Water supplies may be contaminated and must be considered suspect until tested by the Health Services. In addition, large areas around the city may be contaminated by radioactive fallout, further complicating the welfare problem.

If we are to maintain the morale, and the will to win, of the population, it is essential that help should be rendered to the homeless as quickly and smoothly as possible. It is probable that the welfare section's most important contribution to the war effort will be in the maintenance of public morale.

Civil Defence workers, engaged in life-saving operations in the target zone must also be fed.

The Needs of the Homeless

In planning to meet such a national disaster, the following needs must be met:

- (a) (1) **Food:** For those trapped in buildings, in emergency hospitals, civil defence workers and the homeless.
- (2) **Clothing:** Many people may be expected to be inadequately clothed. A night attack particularly may leave many without clothing.
- (3) **Shelter:** Shelter will be needed first on an overnight basis and then for a longer period. This may be in undamaged parts of the city, especially for essential workers, but eventually the majority will of necessity have to be sent well outside the target zone.
- (4) **Enquiries:** "How, when, why and where will I go?" and such simple questions will require an answer.
- (5) **Registration:** A registration service to reunite families and find missing persons.
- (6) **Personal Services:** Many personal problems will need to be met, ranging from lack of money to "how do I get a pair of glasses?"

- (7) **Evacuation:** Those not needed for the war effort who have friends with whom they can stay in the country, would be better off if removed from the target zone.

In meeting these basic needs for food, clothing, etc., there are a number of other services involved:

- (b) (1) **Medical:** Medical services will be occupied with the seriously injured, and many suffering from minor ailments will have to be left. Welfare must be prepared to render such first aid as they can to these people in conjunction with the Health Services.
- (2) **Supply:** Stores of food, clothing and cooking equipment, etc. will have to be collected and distributed from depots.
- (3) **Hygiene and Sanitation:** Facilities for this essential need are bound to be inadequate. Emergency sanitation and washing facilities will be necessary.

Further needs such as provision for nursing mothers, old people, storage of luggage, etc., must be borne in mind, but it must be emphasised that in a disaster of such magnitude only the essential needs can be met and reduced standards must be accepted.

The welfare section is planned to meet these needs on a short-term emergency basis. The aim is to help people readjust themselves, to get them more permanent accommodation and restored to the community as useful members as quickly as possible.

Organisation of the Welfare Section

The Welfare Section is the largest of the Civil Defence sections and to meet the above commitments consists of the following six sub-sections:

The Welfare Centre Sub-section.

The Catering Sub-section.

The Billeting and Accommodation Sub-section.

The Emergency Clothing Sub-section.

The Registration and Enquiry Sub-section.

The Information and Personal Services Sub-section.

Control

The control of the Welfare Section comes under the Chief Welfare Officer at each level

of control who in peacetime is responsible for the organisation, administration and training of the whole welfare section within his/her local authority area. During operations the Chief Welfare Officer and appropriate staff should be located at civil defence controls to advise on welfare matters and establish close liaison with other services. The functions of the welfare section are widespread so it must be represented at all the higher civil defence controls and in all zones.

The Welfare Centre Sub-section

The Welfare Centre Sub-section may perhaps be regarded as the corner-stone of the Welfare Section since it is at Welfare Centres that the homeless are first marshalled with all their problems of material and personal needs. In a sense the work of all the other sub-sections radiate out from the Welfare Centre and so all the services provided by the other sub-sections should be represented there.

Types of Welfare Centres

These fall naturally into three categories:

- (a) **Planned Welfare Centres** are those sites which are earmarked for the purpose in peacetime. They would have some facilities for cooking and sanitation which could be rapidly augmented if the situation warranted it. Suitable roads and the availability of water would be important considerations in the selection of proposed sites. In some cases it might be necessary to install water points and water storage tanks in pre-attack periods. These centres would naturally be the first to be opened.
- (b) **Auxiliary Welfare Centres:** These are likely to be premises which afford only very rough shelter, such as barns, sheds and damaged buildings. They would only be used on a short-term basis and would require a large degree of improvisation.
- (c) **Packaged Welfare Centres:** These would consist of tents and they may also have a limited amount of "manufactured" cooking equipment. Their undoubted advantage is that they would be mobile and could be set up where required. However, equipment for these would be limited and improvisation would play a large part of their operation.

Should it be desirable for administrative purposes, Welfare Centres in built-in areas may be formed in Groups not exceeding six Welfare Centres.

Services Provided at Welfare Centres:

Services provided by the Welfare Centre

will depend on its location and on the operational situation. All Welfare Centres will, however, provide the basic essential needs of the homeless, viz., food, clothing, shelter, medical service, etc. Other necessary services will be provided where time and space permit, but it is obvious that the essential needs of the homeless must be met first.

Welfare Centres in a devastated area will provide only the minimum needs. Generally speaking the further Welfare Centres are situated from the target area, so will the amenities and services improve and the size of the Welfare Team is governed by the size of the Centre.

Welfare Centre Teams

The smooth running of all Welfare Centres is dependent on the efficiency of the staff and its ability to work as a team. Welfare teams covering all aspects of welfare are, therefore, the basic unit of the Welfare Centre Sub-section. Training by teams fulfils a dual purpose. First, it allows for the expansion of staff in the case of static, e.g., planned Welfare Centres by utilising suitable volunteers from the homeless and secondly, trained teams can be used as the nucleus for forming additional Welfare Centres, e.g., auxiliary centres to meet exceptional circumstances.

In any disaster the Welfare Centre provides only the basic needs of the homeless and depends on the other sub-sections for the more widespread services of the homeless. Assistance in training of the members of the Welfare Centre teams would be the responsibility of the other sub-sections.

The aim of training should be to make staff so adaptable that they are able to carry out whatever duties are assigned to them regardless of the conditions in which they work and even if the number of homeless is far larger than anticipated and only a minimum of equipment is available.

Welfare Centres in Target Zone

It is safe to assume that any attack made by the enemy on an Australian city will be aimed at a point where the greatest possible damage to production would be achieved. Usually the residential areas are, in the main, around the outer portion with the industrial and business section in the centre. This being the case, although Welfare Centres must be planned throughout the target zone, the majority will be around the periphery of the zone.

To cover effectively the entire target zone, Welfare Centres must be responsible for a

given area, in somewhat the same manner as the warden section arrange their post area boundaries for total community coverage. In this way a Welfare Centre can service, if necessary, as both a training and operational headquarters for the area assigned to it. With each post area organised to provide welfare workers to assist their wardens, the limited training required of these **aides** can be done in conjunction with the training of the Welfare Centre staff.

After an attack the welfare aides who find themselves in the extremely damaged section will then serve in their own immediate neighbourhood, as forward welfare workers, until such time as organised Welfare Centre teams arrive.

The problem of getting large numbers of homeless exacuated, particularly at night, can best be planned by utilising the natural **Welfare Assembly Areas**, such as parks, open spaces, etc. These can serve as gathering points from which the homeless would be carried by bus, truck and car shuttle service, or sent in groups on foot to the Welfare Centres.

Again, these assembly areas should be manned by the welfare aides living in the immediate vicinity and organised for that particular service.

Welfare Centres in Mutual Aid and Reception Zones

Welfare Centre planning must provide for a complete coverage of these zones; greater effort being directed to those areas least likely to be affected by fallout on meteorological predictions. This also conforms to planning for strategic evacuation. It should be remembered that evacuation may have to be organised from areas contaminated by fallout.

In these zones which are unlikely to be subjected to direct nuclear attack, Planned Welfare Centres must be organised and adequate personnel trained to man them. Buildings and sites must be earmarked in peacetime and complete plans prepared for the opening of these centres. These plans will include staff required and lists of additional cooking, washing and latrine facilities, etc., which would be required in the event of the Welfare Centre operating. Adequate water arrangements must be made and will include installation of water points and storage tanks.

Mutual Aid zones must be prepared to provide a large number of Mobile Welfare teams, to send to the target zone, and additional personnel will be required to man these.

(Continued in next series)

FISHING NOTES

Contrary to what I thought last month, the fishing has improved. Quite a number of anglers have been successful on the near south coast. Sam Marshall who has been holidaying at Merry Beach reports good fishing there. Flathead, bream and whiting are to be caught, but the bait to use seems to be worms.

Bobby Friend managed to land two jewies at the Canal. I think he said they would both fit in the one corn sack! He caught them at the very old spot where the coral trees have been washed into the water, this side of the punt.

The general office has been represented by Joan Thorpe who has been supplementing the family larder with fish from "The Island". My word that's a changing spot! I can remember the water breaking into the trees at the Western extremity of the island road! And, of course one never knows whether the channel is on the island side or over at Jerry Bailey!

Zen Beer is off to holidays at Batehaven. We look forward to hearing of some good fishing from that area, and we hope he doesn't drift off to New Zealand like Bill Townsend & Co. did some time ago!

Speaking of Batehaven, reminds me that some months ago I reported the passing of the owner of Clyde View Caravan Park. Speaking to that gentleman recently he assured me that the report of his passing was a gross exaggeration! We are indeed pleased that he is still alive, and anyone patronising his park will certainly find him a good host.

I'm glad the cattle men are raising their irate voices against the sand fly. That little stinker! I reckon its got the biggest bite for the size that I know! I'm sure the cattle blokes will have the firm support of every fisherman in the land, all of whom have been irritated by this pest from time immemorial! Good luck to them! (Not the sand flies!)

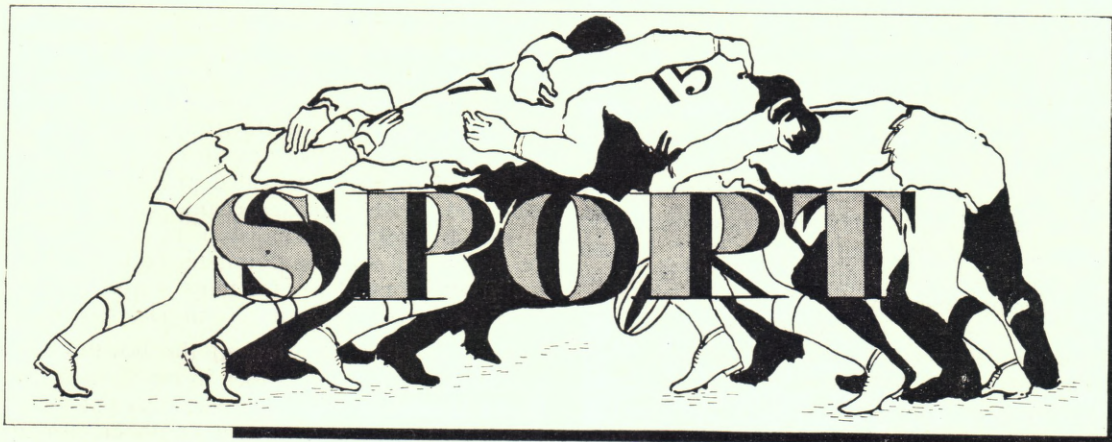
MORE LAUGHS

She (on the phone): "I'm afraid your dinner will be burned tonight darling."

He: "What's the matter? Did they have a fire at the delicatessen?"

* * *

Hear the one about the man who, for his birthday, was given one of those waterproof, shockproof, unbreakable, anti-magnetic watches? He lost it.



A Roundup of the Month's Activities

CRICKET

Minor Premiers S.P.C. easily defeated Bowral in the final to take out the 1st grade Cricket Premiership for 1961-62.

Star all rounder, Keith Larsen, finished the season in a blaze of glory, and much of the credit for S.P.C.'s win must be accorded this outstanding cricketer. Keith pulled S.P.C. out of trouble in the semi-final against Mittagong with a brilliant innings of 155, and in the final he took 4 for 24 in Bowral's first innings and a sensational 7 for 10 in the second innings to give S.P.C. an outright win.

S.P.C. made their way to the final with a first innings win over Mittagong 2, in a bright and breezy match at Bowral's Bradman Oval. Some of the district's most popular personalities constitute the Mittagong 1 team and the sporting spirit in which the match was played was evident throughout the play.

Mittagong batted first and were dismissed for 165. Opening bowlers Keith and Geoff Larsen took all 10 wickets, Geoff taking the honours with a great performance on the lifeless turf wicket.

S.P.C. were left with 35 minutes to bat on the first day, and consistent opener Graham Beattie provided a shock when he daringly attacked the bowling to knock up 35 n.o. before stumps and S.P.C. were 2 for 48, having lost the wickets of Lloyd Veal and Geoff Larsen.

On the second day S.P.C. needed 117 runs to win, and from the moment Keith Larsen took the crease the result was never in doubt. He never gave a chance until the Mittagong total was overhauled, and very few after that as he went on to score his century; he then hit five magnificent sixes in succession and

finally was dismissed for 155. Graham Beattie, continuing his sparkling n.o. innings of the previous Saturday, batted in complete contrast, and battled gamely on to stay with Keith Larsen until the S.P.C. total was just 6 runs short of the Mittagong score. Graham's 58 was a great contribution and it was a pity to see him go before the winning run was scored.

The Final

The 1961/62 first grade final between S.P.C. and Bowral was played over three warm and sunny Saturdays, and taken all round, was possibly one of the most spectacular finals for some years.

The first and second Saturdays produced dull uninteresting batting with scoring rates almost ridiculous. Then on the third Saturday, the game took a dramatic twist, as bats were flung freely and a total of 18 batsmen were dismissed for 130 runs scored.

S.P.C. batted first and the accurate Bowral bowling tamed the usually aggressive early batsmen and S.P.C. were in real trouble at 6 for 78. At this stage S.P.C. "skipper" Lloyd Veal was running out of fingernails, however Billy Poland restored Lloyd's normal respiration when he began to play the Bowral bowling to remote corners of the ground. When in an attacking mood, and he invariably is, Billy is an exceptionally hard hitting batsmen, and he pulled S.P.C. right back into the match with a slashing 57 runs.

With quite a few more runs needed to run up a formidable first innings total, S.P.C.'s tail began to "wag" rather frantically as Fred Bell returned to form with a very handy 24, and Peter Mott and "Rooster" McDonnell

pushed the score along to 161 before S.P.C. were finally dismissed.

Bowral were required to bat for the remaining 30 minutes of play, and Geoff Larsen struck a great blow for S.P.C. when he secured the wicket of Bowral's star batsman, Clive Goodfellow with his first delivery.

The second day's play saw some marathon bowling spells by Keith and Geoff Larsen and painfully slow batting from Bowral as they fought doggedly to overhaul the S.P.C. total. On several occasions throughout the afternoon Bowral seemed as though they might have got the runs, but the batsmen could never really get on top of the bowling and were eventually dismissed for 135, 26 runs short of S.P.C.'s first innings total. Keith Larsen bowled a marathon spell of 24 overs from which he took 4 for 24, while at the other end Geoff Larsen took 3 for 53.

Lloyd Veal bowled only five overs but they were very successful ones, and realised two very valuable wickets, those of form batsmen Keaney and Dawson.

Then came the dramatic third and last day, and S.P.C. with 26 runs in hand considered

the premiership all but theirs. After only half an hours play however, Bowral had reversed the position when they dispensed with four S.P.C. batsmen for 25 runs. "Skipper" Veal was once again in the throes of nerve wracking frustration and once again it was "Doctor" Billy Poland who provided the tranquiliser. Bill and Keith Larsen became associated in a match saving partnership in which, surprisingly, Bill was the dominant half, although Keith was content to face most of the bowling from the "danger man", John Dawson.

These two freely attacked the bowling and quickly removed the "killer instinct" from the Bowral side, before they were parted when Keith was out l.b.w. from a "grubber" for an excellent 30. Billy was out shortly after for 44 taking his tally for the match to a neat hundred. On this occasion the S.P.C. added few more runs and were soon all out for a not so good 104.

With 26 runs in hand, this set Bowral 131 runs to win, with 110 minutes in which to get them. This gave Bowral a great chance to pull the match out of the fire and win the premiership. Despite this, the S.P.C. players at that



stage were confident that Bowral would not be able to get the runs in the allotted time, however I don't imagine any player on either team expected the furious onslaught from Keith Larsen that was to follow.

Keith tore into the Bowral batsmen to effect a complete rout, and the final was all over inside an hour with Bowral all out for 28. Keith's fantastic figures of 7 for 10 with 5 victims clean bowled tells the story of a vicious spell of accurate bowling.

Full credit for the premiership win must go to S.P.C.'s skipper, Lloyd Veal, whose unstinting efforts throughout the season contributed greatly to the harmony of the team and their eventual success. Although Lloyd may have lost a little sleep over the past few weeks, he should be well compensated with the acquisition of a premiership cap and possibly a few grey hairs.

To say that the S.P.C. team constantly depended on the efforts of only a few players would be quite unfair, for throughout the season each player has acquitted himself more than well. However, averages single out the

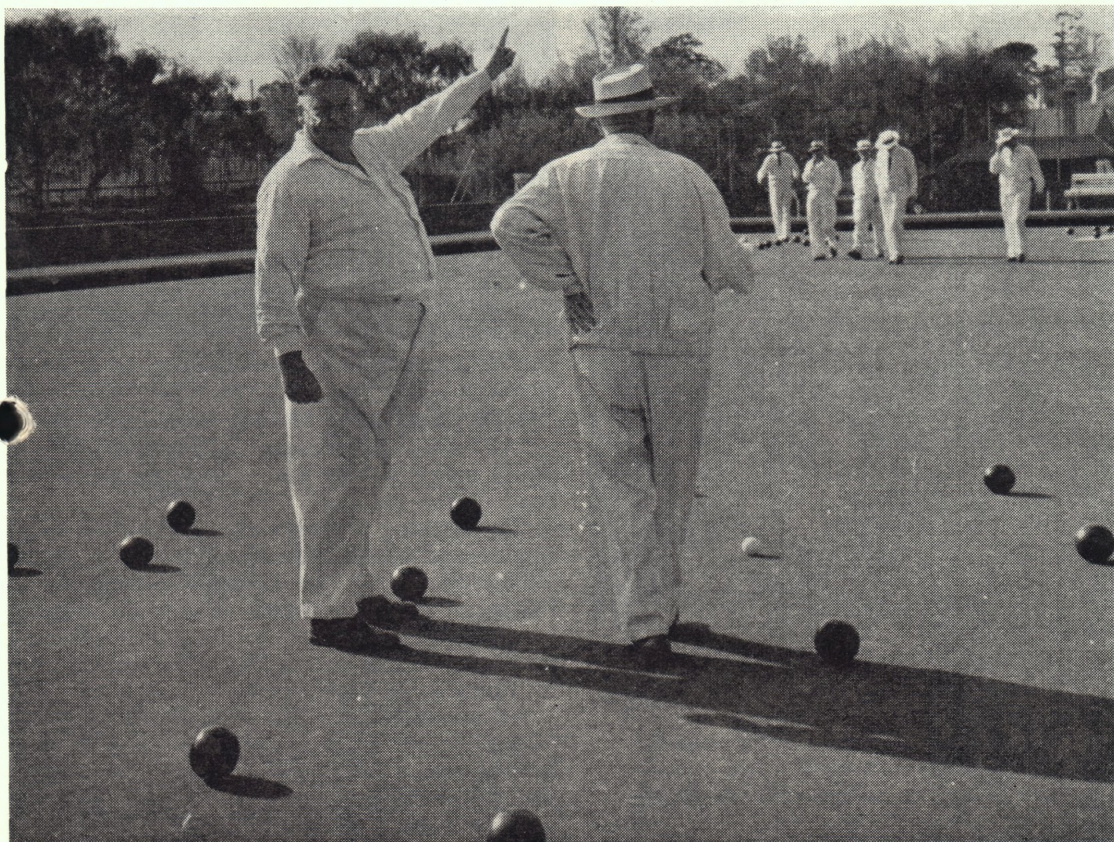
outstanding players and this season the averages did not lie. Keith Larsen topped the batting average comfortably with a phenomenal 60.3, and completed the double to win the bowling average when he nudged out brother Geoff, with a grandstand finish. Keith and Geoff were neck and neck for the entire season, with Geoff just a shade ahead before the final match in which Keith took 11 for 34.

On the Saturday night following the final, members of both teams exchanged congratulations and commiserations at a dinner held at the Grand Hotel, Bowral, which was voted an outstanding success. Present at the dinner were the respective presidents of each club, Bowral's Charlie Douglas and S.P.C.'s J. F. McNicol and also Keith Williams, captain of last year's minor premiers, Moss Vale, who presented to Lloyd Veal, the John Missingham Shield, for 1st grade minor premiers.

Congratulations S.P.C., on a fine effort!

BOWLS

In our last issue we were only able to give the final scores in the game S.P.C. versus



Tommy Penfold must be one up!

Moss Vale. However we now have all the details:—

J. Colquhoun, H. Sheather, R. Jenkins, J. Fuller, +20.

J. Penfold, E. Johnson, D. Crow, J. Goode, —15.

J. Mott, N. Austin, N. Sullivan, W. Rutter, +14.

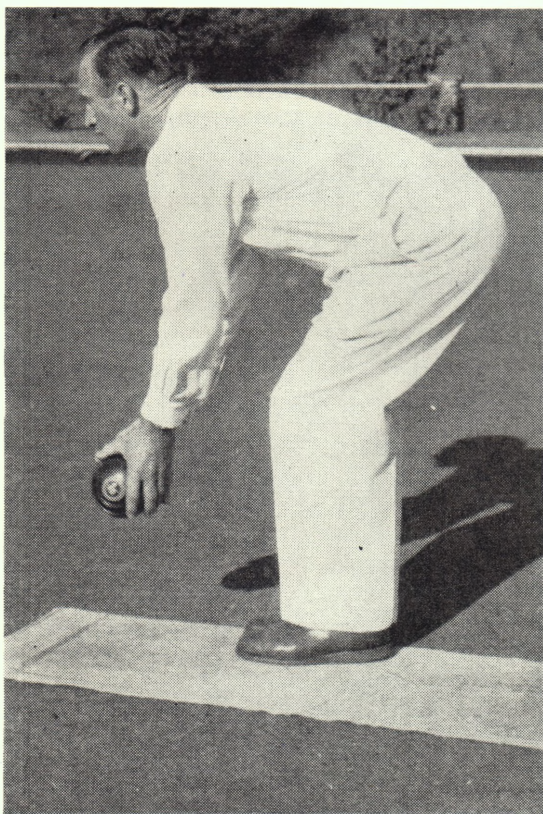
G. Preston, E. Carey, C. Ling, J. Bell, —12.

J. D'Adam, J. Moore, W. McDonald, F. Armstrong, +4.

S. Hurst, F. Bonnar, S. Fleeton, L. Knight, —3.

Scores again S.P.C. 166, Moss Vale 158. W. Rutter's four won the trophies when their names were drawn from the hat.

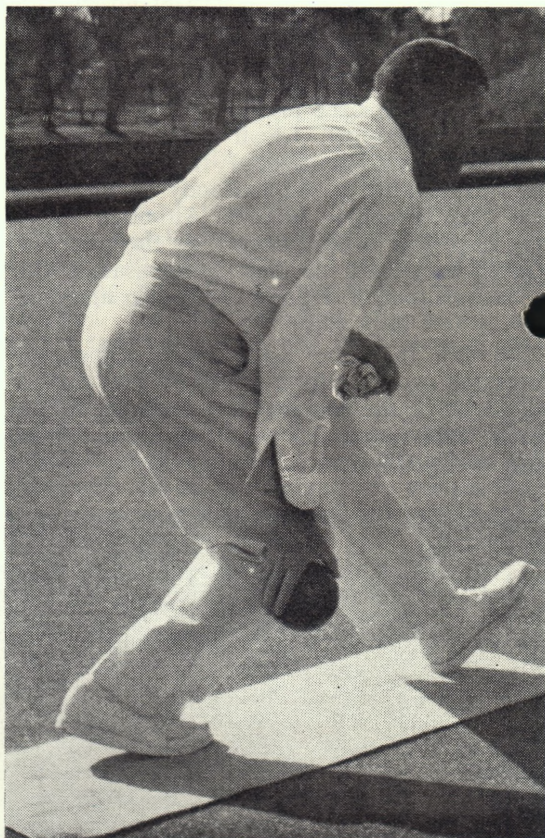
Just a point! If Len Knight had the same helicopter service as Stirling Moss he could have enjoyed a free chicken dinner along with the other S.P.C. boys, instead of rushing off



Jack Brown shapes up.

to Sydney by car to catch a plane to Brisbane, immediately the game was over. Len, I think the least you could have done was nominate a sub.

There is no doubt about it! Autumn in this district is far the best season for bowls, and to prove the point most clubs have been able to get their championships close to a finish—S.P.C.-ites are performing with credit in most of these games.



Our Works Manager rolls one down.

Jack Douglas of Bowral, although beaten in the minor premierships, accounted for last year's major winner and is now in the semi-final of the majors.

Geo. Preston is also going well in the minor singles and could land this one.

Peter Berry of Bundanoon Club has won the minor championship in his second year of bowls—a good effort! Al Counsell, given a heck of a hiding in the singles, is in the final of Bundanoon Club's pairs.

We haven't any reps. left in Moss Vale Club's major singles, but our players performed quite well and perhaps next year they'll toss the goodies.

It's always good to see new faces in this game of bowls. During the month I was pleased to give Geo. Pribyl a few pointers on

his first game of bowls. Geo., having his first game had so many touchers, he's going to donate a box of chalk to Bundanoon Club, even though he is a member of Moss Vale.

Anyway Geo. must have liked the game 'cos he was back the following Saturday in the company of Eddie Johns, Charlie Wheeler and Peter Berry.

Noticed quite a few S.P.C. players and their wives at Bundanoon Club's Legacy Mixed Day. Amongst them being Willy Townsend and wife and Sandy Galloway and wife. Bill was good enough to win a trophy.

We had two representatives in the S.T.B.A. versus Metropolitan game. John Fuller and Al Counsell. John's four won from Harold Hill's four by 4 shots whilst yours truly lost by 6 to Arthur Emmett.

We didn't feel too badly about this because both these players had skipped N.S.W. fours against South Australia a fortnight previously.

MORE LAUGHS

Definition of Cricket:

There are two sides, one out on the field and the other in. Each man in the side that's in goes out, and when he's out he comes in and the next man goes out till he's out. When the side that's in is all out, the side that's been out comes in and the side that's been in goes out and tries to get out the one that's coming in. Sometimes you get men still in and not out when the side that is in is finally out. When both sides have been in and out, including those who are in and not out, that's the end of the game.

* * *

Father, trying to point out advantages of a good, clean life to his son: "Son, I know a man who doesn't drink, smoke or chase women and he's just celebrated his 100th birthday."

Small son: "How?"

Safety First!

Gardening Notes

By Mrs. C. Crowe



APRIL

FLOWERS

SOW: Antirrhinum, Larkspur, Linaria, Lupin, Nemophila, Pansy, Sweet Pea.

PLANT: Carnations, Pansy, Stock, Iceland Poppy, Ranunculus, Anemone, Calendula, Bellis, Perennis (English Daisy) Spring Flowering Bulbs, Lilliums.

VEGETABLES

SOW: Broad Beans, Onions, Parsley, Peas.

PLANT: Celery, Onions, Eschallots, Garlic, Herbs, Rhubarb and Lettuce.

Autumn colours are showing strongly now. Birches, Poplars, Cherries, Liquidambers, Box Elders and Golden and Claret Ash are turning colour, whilst some of the deciduous shrubs have already dropped their leaves.

Evergreen shrubs can now be safely moved or planted, so try to complete this work before the really cold weather sets in.

Lawns can still be satisfactorily sown, if this work is done immediately. Stake up all Chrysanthemums, as these should be coming into flower very soon.

Keep baiting for snails and slugs. There are still plenty of these about.

Those cheeky little birds, the Silver Eyes, are busy eating all the insects they can find as well as any nice ripe berries, and the Cuckoo has been busy collecting nice fat, hairy Caterpillars. The Cuckoo is the only bird which will eat these.

Have you heard the Butcher Bird's melodious Autumn song?

"Hear now his song flung
the small winds among—
each note dispassionate,
bodiless, delicate,
holds on the sunny air,
holds but a moment there
and oh, is done!"

from "Song of the Butcher-bird"
by P. L. Grano.

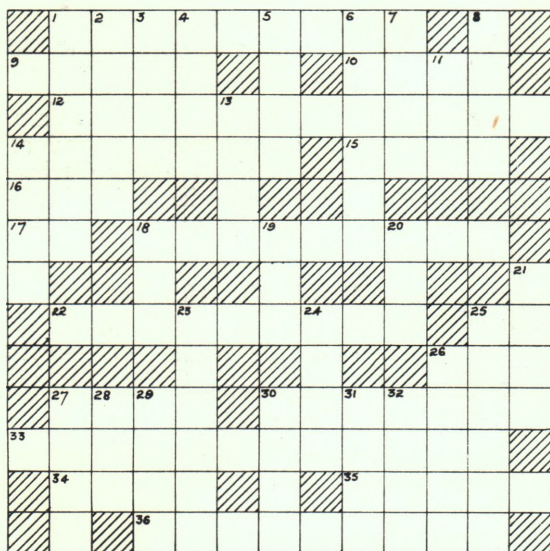
— PUZZLE PAGE —

The result of Problem No. 37 is shown at right. Winner this month was Mrs. Joan Dray, Moss Vale. Congratulations, Mrs. Dray!

Problem 38:

Across:

1. Refill
9. Geometrical lines
10. Pertaining to the dawn
12. Spiritual
14. Agrees to
15. Allowance for waste
16. Rodent
17. First name of singer
18. Animal
22. Condemned
25. Italian river
26. Loiter
27. Historical island
30. Own
33. Decoys
34. Architectural moulding
35. Farewell
36. Reprove severely



Down:

1. Scamp
2. Outcome
3. Chirp
4. Spoke falsely
5. Women of a religious order
6. Reconcile
7. Period of time
8. Insect
11. Part of "to be"
13. Relax
14. Group of islands off Ireland
18. Container
19. Metal
20. Faulty shell
21. Quagmires
23. Town in Ireland
24. Wooden Shoe
25. Spent
26. Russian leader
27. English college of note
28. Ship's record book
29. Famous war
30. Wharf
31. Vein
32. Fizzy drink

PS

SPC

Vol. 4, No. 5

MAY, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.

MARULAN — BERRIMA — MEDWAY — SYDNEY

GENERAL MANAGER'S NOTES

On Thursday, 19th April, Mr. Len Hole, Manager of our Berrima Colliery, retired after being with "Southern" since 1945 and previous to that with Australian Iron and Steel since 1927.

Mr. Hole was Yorkshire born and exhibited all the imperturbability of that breed.

He entered the coal mining industry on leaving school and in 1920 emigrated to Australia where he again went into the mines. By hard study at night school he became Undermanager at Wongawilli Colliery and then Manager at Berrima and in doing so showed that men with practical ability but without advanced schooling could rise to the top of their profession by sheer hard work.

Mr. Hole's humane but firm management was respected by all who had any dealings with him and he will be sincerely missed from our ranks.

On behalf of us all I will take this opportunity to wish Mr. Hole good health and a long and happy retirement.

S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

**SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.**

EDITOR

M. D. Hauber

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COPY DEADLINE

1st of the Month

Vol. 4, No. 5

MAY, 1962

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- Departmental Representatives -

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	J. FELTHAM A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	MISS J. LILLYMAN

- Contributions -

GARDENING NOTES	Mrs. C. CROWE Berrima
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EDITORIAL

Dear Readers.

It would seem that we are on the crest of the safety wave at Berrima and that we are riding it in to a grand 100 days accident-free. With 90 days on the board as we go to press, the prospects are high. Already the printing press is turning out bonus coupons in anticipation and no doubt you are considering the "goodies" you will obtain in exchange for these coupons.

Have you stopped to consider the meaning of this present trend towards industrial safety.

A few points come to my mind which I would like to pass on to you for serious consideration.

Let's take each one separately and see if we can come up with some worthwhile points.

Firstly, and most important, is the fact that each and every employee is showing some consideration for safety first on the job. Assuredly this is a pat on the back, but don't let us be lulled into a false sense of security—we still have a long way to go.

Secondly, is the raising of morale. You might say: What has morale got to do with industrial safety. Indeed, in my opinion, it has a great deal to do with it. It is a well-known fact that adversity lowers morale and when you lose morale you lose a lot of the more important factors of everyday life. When you are struggling towards a goal, in our case "no lost-time accidents", and you suddenly see your hopes dashed, then you lose a lot of the spirit of maintenance of effort. High morale on the other hand manifests itself in many different ways. It improves such things as concentration, co-operation, co-ordination, inspiration, etc. In fact it lifts our spirits to a high level and makes LIFE really pleasant.

Thirdly, we are illuminating suffering. I don't mean all "suffering" but at least pain. OK, I know you still have to go to the dentist occasionally and still have to put up with the occasional painful illness but for goodness sake WHY ADD ANY MORE.

Fourthly, we are educating for the future. Not one of us wants to think of a son or daughter being subjected to a serious accident in his or her future job. If our efforts are helping to safeguard our children in industry then we are doing a worthwhile job.

Fifthly, we are justifying the company's safety-first campaign. I feel that I must reiterate a statement by our Works Manager that the Company receives no monetary gain

from the fact that we run 90, 100 or 500 days accident-free. It is quite simply a case of responsibility — a responsibility to the employee. Conversely we have responsibilities to our families, to ourselves and to the Company. Whilst riding on the wave of success (safety-wise) we can be justly proud that we are fulfilling at least one, if not all, of these responsibilities.

Until next issue,

Yours,
The Editor.

800 SCOUTS VISIT

During the Easter weekend, about 800 scouts from the Sydney Metropolitan area visited Marulan South.

Main purpose of the visit was to examine the interesting geological formations in the district.

Most of the scouts travelled by train from Sydney and it is interesting to record that it was the first train with passengers to travel from Medway Junction to Marulan South, a distance of six miles.

The scouts camped over a widely-scattered area and local storekeeper Les Cooper claimed he had to engage five extra staff to cope with the demand for goods.

OBITUARY

The Newsletter regrets to report the death of Austin Mooney who had a long association with the Company. He was for many years in attendance at Berrima Junction as a railway employee and as such had extensive dealings with the despatch of cement trucks from the Works. He later joined the Company and was a familiar figure at the weighbridge.

To his family we extend our deepest sympathy and condolences.

* * *

To Mr. and Mrs. Hellyer we offer our deepest sympathy following the loss of their daughter, Carolyn Anne, a few hours after birth at Berrima District Hospital.

* * *

We regret to record the tragic death of Phillip Bell, son of truck driver Ray Bell. Phillip was fatally shot while spot-light shooting a few miles from his home.

A two mile long procession followed the cortege to Old Marulan Cemetery.

To his family we offer our deepest sympathy.

Personal Pars — Heard on the Grapevine

BERRIMA

Fred Bonnar is a grandfather for the first time. Fred's son, Lt. R. S. Bonnar, R.A.N. became the proud father of a son, Scott David, during last month! Congratulations, Fred!

* * *

We are pleased to welcome back Kevin Moore who resumed work on 31st April. Kevin has now taken over at the weighbridge and we wish him success in this new position.

* * *

Jack Mott has been holidaying in Sydney and other parts of the State.

* * *

Bert and Mrs. McIntosh are having a hard time becoming accustomed to the quietness at home due to the absence of two of their children. Brian, who was a familiar figure on the Moss Vale Golf Course and featured prominently in local events, has secured a cadetship with Dunlop Rubber Co. and Barbara, their eldest daughter, is attending teachers' college.

* * *

Jack Scott showed signs of aches and pains after the house moving effort at Bowral with which he was associated. The house, acquired

by the 2nd Bowral Scout Group, of which Jack is the secretary, was moved from its original site in the main street of Bowral, to a site about $\frac{3}{4}$ mile distance. The whole removal was a voluntary effort by Scout members, Apex, Mr. E. Dean, and S.P.C. contributed slightly, and of course the ladies who are always on hand with the cup of tea. Congratulations everyone, it was for a worthy cause.

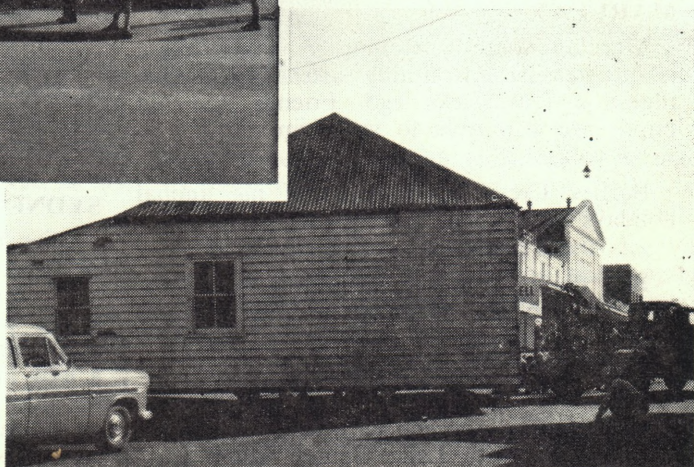
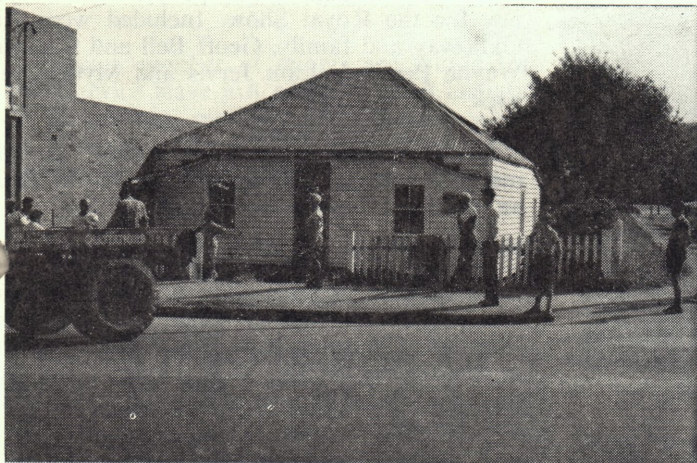
* * *

Miss Helen Remington, daughter of Bill, was married at Bombala during the Easter holidays. Bridegroom was Mr. Barry Hines, of Bombala. Jack Mott and wife were among the well wishers who attended the ceremony. Congratulations Helen and Barry!

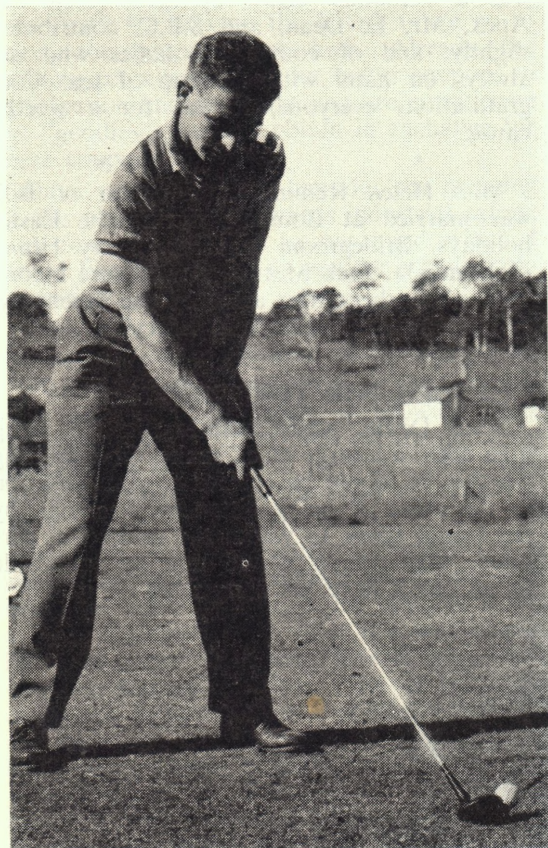
* * *

CLANGER FOR THE MONTH

John Doyle, whilst walking in the scrap area noticed a large black snake. On enquiring whether he would be entitled to compensation in the event of being bitten he was told, by the bright spark to whom the query was directed, that compo would not be applicable as he didn't have his danger tag on it!



I tried to snap a few of the players on Moss Vale Golf Course, during the weekend. However, most of the S.P.C. players had got away to an early start, but I did manage to snap John Tickner hitting off the first. Duffed his shot, too! Must have made him nervous. Sorry, John!



MARULAN

Marulan South Schoolmaster, Alf Dieman, is progressing favourably after his sudden illness a few weeks ago. Friends and old pupils are now able to visit him.

Barney Creswick is spending his annual holidays in Brisbane and Sydney.

Bob Phillips who worked at the quarry for several years has returned to live with his family in England. He had been in Australia for 12 years.

Fourth year apprentice, Merv. Henderson, who worked with Lake George Mines Ltd.,

at Captain's Flat, after leaving school, has joined the Maintenance Section at Marulan South.

It will be recalled that the mine at Captain's flat recently closed down after nearly 30 years production.

Don McCallum, son of storekeeper Bill, has started the road racing season well by winning his first two races. On 18th May, he was due to race with eight other of his clubmates from Goulburn at Shellharbour.

Clarrie Steffenson is receiving specialist treatment in Sydney for a neck injury received at work.

We are pleased to report that Trevor Pearson's son, Ross, who recently severed his right hand fingers, is back at school and is planning to play in the Junior Rugby League Football team this season. That's real courage!

Shift foreman, Alex McMurtrie and Mrs. Mac have returned from holidays at Rockhampton, where Alex's mother lives. Before he came to work at Marulan South, more than 30 years ago, he worked at the Mt. Morgan mine in North Queensland.

Several Marulan South people visited Sydney for the Royal Show. Included were Jim Galloway and family, Geoff Bell and Carmen, Wayne Percival, John Jervis and Myles Creswick.

Stores Assistant, Paddy Byrnes, recently met his wife in Sydney on her return from an extended holiday in Europe.

Tales of the war years spent in the Middle East, Greece, Crete and the Islands were swapped at the Annual Anzac Day dinner in Marulan. Chairman was Tom Sharkey, acting in the absence of Mr. J. A. Hogg. There was the usual dawn service and at 11 a.m. March and Service.

SYDNEY

Miss Helga Atkinson is the latest member of Sydney staff to desert us for sunny Queensland, for three weeks anyhow. No wonder Helga was "mum" about exactly where she was going, for Sydney spy managed to get a look at the hotel prospectus which announced that "no cranks", no elderly (at heart) or infirm persons accepted". Sounds as if it will be some holiday.

I hear that Harold Ball and his wife really starred in the Easter Bonnet parade they attended on Easter Saturday. Harold and his wife, portraying the gay nineties won first prize in the competition. Most honours go to Mrs. Ball, whom I believe made the costumes. Here's hoping we have a photo next issue.

MEDWAY

Mr. and Mrs. J. Talbert (Senr.) celebrated their golden wedding on 7th April. Jack is a retired miner and also one of the oldest inhabitants of the village.

Congratulations, Mr. and Mrs. Talbert!

* * *

Mr. and Mrs. Mordue also featured in a wedding anniversary on 14th April.

It was a Silver Anniversary. Congratulations to you both!

* * *

J. Sumner retired after a number of years at the Colliery. Happy days in your retirement, Joe!

* * *

A. Stinson and A. Williamson are back after three months long service leave. Both are looking extremely well.

* * *

Quite a number of miners are taking their long service leave just now; 14 in all including F. Armstrong, our champion bowler, who is at Young at present. Fred might include Melbourne in his itinerary.

* * *

Sympathies are with E. (Marmy) Winner who, whilst holidaying at Currarong on the South Coast, suffered a nasty experience during a fishing trip.

Fishing from the rocks, he was caught by a large wave and washed into the turbulent water where he was subjected to some severe buffeting against the rocks. Scrambling out he broke his finger and also suffered severe bruising.

Get well, Marmy!

* * *

W. Napper featured in another fishing accident at Wallaby Rocks. Whilst negotiating the rope descent he lost his grip and fell some distance. Fortunately he only sustained bruises.

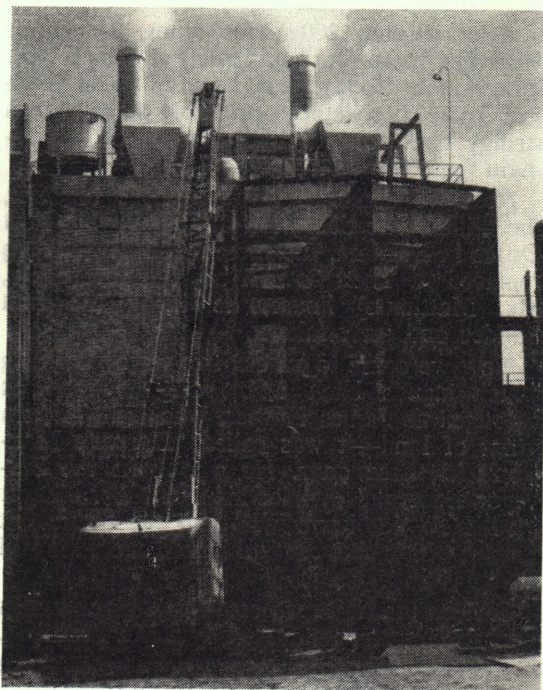
Watch it Wilf!

PLANT JOTTINGS

BERRIMA

The accompanying picture shows progress to date on the construction of the electrostatic precipitators being supplied by Sturtevant Engineering Company (Australasia) Ltd. for our Nos. 4 and 5 pulverised Fuel boilers. The size of the steel casing and supporting structure is clearly evident.

As can be seen, the casing is divided into two entirely separate compartments. During normal operation each compartment will be used to treat the dust laden flue gas from one of the two boilers. For maintenance purposes, however, provision has been made in the duct-



work to permit each compartment to be used to treat the flue gases from either boiler or, should the occasion arise, from both boilers.

The discharge and collecting electrodes will soon be suspended in the casing, the rapping gear, hoppers and dust disposal equipment installed.

It is expected that construction will be completed in a few weeks and that, following commissioning, boiler fly ash emission will be reduced to a negligible quantity.

"Berrima to the Cross Roads"

By Mr. A. M. Reynolds

I would like to point out from the start that this is not an official history of the Berrima District as would be found in the books written about the district. It is material gleaned mainly from personal knowledge contributed by Mr. R. Cowley, Miss Ada Harper, and last but not least, my mother, with whom I sat for hours getting the facts straight.

To commence the journey into Berrima I intend to start at Oxley Hill Road, thence along the right hand side of the road as far as the bridge, then start again on the left of the road back down to the bridge. From the bridge to the Cross Roads I will continue at random.

After passing 200 yards along the Hume Highway there was an Hotel of which very little remains today. It was one of those hotels just knocked together—probably slabs with a stringy bark roof. I think a stone or two remain from the chimney.

Next we come to three cottages together, the middle one being the site of the first Post Office in Berrima, the present building having replaced it. Then down from the post office, Mr. Matthews' house, he being the first builder and undertaker.

Now we come to an old two-storey building which stands back a bit off the road. It belonged to James Harper, who built it on a grant of land—it was called "Harper's Mansion" in those days. He also built the Surveyor General Hotel for his son. After Harper died I do not know who ran the house but later it was a convent and in fact today, is still owned by the Catholic Church.

Still on the right, we come to a blacksmith's shop which was conducted by a Mr. Armfield.

Leaving Armfield's we come to a single storey stone building, with steps right down to the road, which was Breen's Hotel.

I do not intend to deal with the Gaol or Courthouse, they are both complete subjects on their own, as indeed is any building or property on my journey. However, I would like to mention the Gallows steps. (The Gallows were situated in front of the gaol). When demolished and moved into the gaol proper, the steps were recovered and taken to the Three-Legs O'Man Hotel and used as steps to the hayloft and may still be there if the stables have not been pulled down.

The Surveyor General Hotel I have already

mentioned but must add that it is the oldest licenced hotel in Australia.

Next is the present Post Office (the third in Berrima) and is almost too modern to mention among these historic buildings.

Now for Jellore Street, which runs behind the park, on the right and just full of historic buildings. Firstly we come to some modern buildings, but in early days there was a store (I cannot be sure of this) and a butcher's shop run by Mr. Galbraith.

About the third or fourth building in Jellore Street was the first Commercial Bank in Berrima (I will mention two others when I return to the Highway).

To bring us to modern times we next have a building called Arlington. This was originally built as an Hotel—The Coach & Horses, run by a man called Levy. It was bought as a residence by Captain and Mrs. Frank Finlayson, parents of the late Frank Finlayson, of Moss Vale.

Just past Arlington, there is a small building—another hotel. I think it was more of a grog house than hotel.

Now we come to a two storey place close to Crowe's Nursery. It is a very old building, in fact, some claim it was the first built in Berrima. It was built by a Mr. Small, father of the Governor of the Gaol. When he retired, he took up residence there. It is currently occupied by Pop Wrightson whom we all know.

Once more I would like to return to the Highway and come down the opposite side of the road starting from Oxley Hill Road. The first building to be mentioned is the school which has always stood on this spot. Between the school and Courthorpe we come to the second Post Office in Berrima and then Bender's butcher's shop which is opposite where Mr. Armfield's blacksmith shop was situated. Mr. Bender's butchers shop used to be a second blacksmith's shop.

Now for Courthorpe, next on the left, and opposite Breen's Hotel. It was a two storey building and was Taylor's Hotel, but was taken over by Mr. McCourt, who was the local representative in the State Government, and also the Speaker. He named it Courthorpe and lived there for a number of years. Of his many political speeches only one bears mention here. He said that he visualised the

day when, by a series of locks, we would see ships coming up the river to Berrima! I don't know whether it got him any votes, but he said it. He married a Miss Galbraith and they had two daughters and two sons. The daughters were twins and one was called Myall and the other Mallee. I don't know how he arrived at these names.

Well, next on the left would be Powell's store. I think this was the first store or one of the two very early stores. Well, that store is still standing today and except for a few coats of paint and some minor alterations, is exactly the same as it was in those days.

Next we have the Church of England, the Holy Trinity and just over a bit in a South Westerly direction, was the Old Soldiers' Barracks, just a long rectangular structure built of rubble with a shingle roof. I think there are a few stones of this still lying around.

From the barracks we come to the Misses Brown's place, then on to the White Horse Inn of today, which was built by Ben Osbourne who was a farmer. He lived there for a few years after which it was, I think, taken over by the Commercial Bank. The shop on the left, just before you get to the bridge was Makin's Store. It has a new front and has no resemblance to its original appearance although the back portion is still the same.

Now we cross over the bridge towards Sutton Forest and there was another Hotel, just on the right on a little bit of high ground. I don't know if it ever functioned as a hotel as it was burnt down. The old site is now obscured by the new bridge currently being constructed. The hotel keeper there was named Ryan.

The road to Moss Vale then runs off to the left, and is comparatively modern by Berrima standards. The Catholic Church up there on the hill was built very soon after the Church of England, only a matter of a few years.

Back on the Highway, a little further on, there was another hotel, one of the rumoured thirty. I must say at this point that I cannot reconcile facts with figures, unless there were a number of small grog houses to make up the number. A little further on, still on the left, was a bootmaker's shop run by Mr. John Hands.

Further on there was an old drink house known as Kelly's. This was more or less a grog shop. That is actually the end of the town of Berrima. It was started about 1830, somewhere about that time, so you can say it was fairly ancient. I have tried to give you some idea of what the town looked like in those days and the buildings I have mentioned are either still standing or are just sites.

(Continued next month)

CIVIL DEFENCE ORGANISATION

(A further series in our training programme)

THE WELFARE SECTION

The Catering Sub-section

The Catering Sub-section will be responsible for:—

- (a) Mass feeding of the homeless.
- (b) Evacuees in transit. These groups may cover a large range of people.
- (c) Feeding in certain improvised hospital and convalescent centres.
- (d) Provision of meals for civil defence workers.

Although the feeding of people in an emergency is a function of the Welfare Section, the procurement of food, water and supplies would be the responsibility of other authorities.

Billeting and Accommodation Sub-section

The Billeting and Accommodation Sub-section will be responsible for:—

- (a) The Billeting Sub-section is responsible for placing in suitable accommodation those persons who are entitled to billeting because they are:
 1. Evacuated from their own homes as members of priority classes (Strategic Evacuation).
 2. Rendered homeless by enemy action.
 3. Transferred to other districts to do essential war work.
- N.B. Police are responsible for billeting troops.
- (b) The billeting survey. This must be prepared well in advance and will include the complete cover of all available accommodation suitable for billeting purposes in the Mutual Aid and Reception Zones and on the periphery of the Target Zone.

- (c) The general welfare of those billeted and for taking any action necessary to alleviate individual difficulties.
- (d) Arrangements for payment (through Post Offices) of any billeting allowances which may be appropriate.

The fullest coverage must be made by the Billeting Sub-section and damaged buildings which were considered uninhabitable during the last war will have to be used under modern conditions, and to provide for unforeseen contingencies.

There is need for the closest liaison between the Billeting Sub-section, the Welfare Centre Sub-section and the Warden Section, as the duties of each overlap to a certain extent, e.g., the Billeting Officer will require the assistance of the Post Warden in compiling his Billeting Survey and the Billeting Officer will be responsible for finding more permanent accommodation for the homeless in Welfare Centres.

Emergency Clothing Sub-section

The Emergency Clothing Sub-section will be responsible for:

- (a) Creating reserve stocks of essential clothing or materials at the appropriate time.
- (b) Distributing clothing or emergency covering to people in replacement of clothing destroyed, lost or contaminated.
- (c) Salvaging and processing of clothing for redistribution.
- (d) Supplying Welfare Centres with clothing for issue to homeless.

The Registration and Enquiry Sub-section

The Registration and Enquiry Sub-section will be responsible for:

- (a) Collating the Registration of individuals who have passed through Welfare Centres or the Casualty Services. The closest contact must be maintained with these two services.
- (b) Answering enquiries regarding safety and welfare of individuals.
- (c) Assisting in re-uniting families.
- (d) Compiling data and records of affected people and services or facilities required for their care.

Information and Personal Services Sub-section

The function of this sub-section is to answer such enquiries of the homeless as cannot be dealt with by the Welfare Centre. Normally **Static Information Centres** will be situated at, or within easy reach of, Planned Welfare Centres, but provision will have to be made for **Mobile Information Centres** to be set up

as and when required by the operational situation.

Responsibility for the organisation, administration and training of the Information Sub-section rests with the Chief Information Officer of State level. He will, of course, come under the general supervision of the Chief Welfare Officer (State).

Transport

In the event of a nuclear attack, transport (road and rail) will be required for movement of the following:

- (a) Food, clothing and cooking equipment from stockpiled stores to Welfare Centres in the Target, Mutual Aid and Reception Zones.
- (b) Personnel for Mobile Welfare and Information Centres.
- (c) Evacuation of homeless from the Target Zone to Welfare Centres.

Transport allotted to the Welfare Section should be organised as far as possible to meet these needs. Some specially fitted vehicles may be pre-allocated in peacetime with orders that in the event of attack they will report to certain centres. Additional vehicles would have to be allotted from a transport pool.

It is suggested that transport detailed to carry stores and personnel to the Welfare Centres set up in the Target Zone should be used to "back-load" homeless to the Mutual Aid Zone. Economy in the use of available transport will be of paramount importance if the Welfare problem is to be met successfully.

Operational Control and Communications

In actual operation the Civil Defence Controller directs all Civil Defence Services. Normally the Local Controller will order the opening of the Welfare Centres (acting in conjunction with the Welfare Centre Officer).

The Welfare Section has no communication facilities of its own. However, during operations the various sub-sections of the Welfare Section will be represented at all levels of control and they will use these lines of communication for the passing of messages.

Sources from which Welfare Section Personnel May be Obtained

In planning the Welfare Section the fullest use must be made of existing Social Service Welfare Organisations. Welfare is a subject which is particularly suited to women, and the many women's voluntary organisations should provide an excellent source of enthusiastic, trained and semi-trained personnel for the Welfare Section.

Other valuable sources of personnel which should not be overlooked are the Church Welfare Organisations. The spiritual needs of the homeless, many of whom will have lost near relatives and those possessions most cherished in life, must be met. The clergy are the best qualified to deal with this task, and when the need arises they will not be found wanting.

Conclusion

In any future war the Welfare problem will indeed be a tremendous one and it can only be overcome successfully by careful planning and training in peacetime. Food, clothing and cooking equipment must be stockpiled in depots, throughout the State, with the emphasis on Mutual Aid and Reception Zones. Buildings suitable for welfare purposes must be earmarked and plans drawn up for their operation in wartime. Planning must also include the stock-piling of Packaged Welfare Centres and the earmarking of vehicles for transport.

Above all there will be the need for a large number of highly trained Welfare teams to man the sub-sections of the Welfare Section. Because there will be shortages of all types of equipment in war, improvisation must play a large part in all training.

Although we must plan for a nuclear war, well-trained Welfare Section would be invaluable in peacetime for such natural disasters as floods, bushfires, cyclones, etc.

• FISHING NOTES •

A report comes to my notice of a bag of 160lb. of perch from the upper reaches of the Shoalhaven River! More astounding is the fact that the catch was made in one day by two fishermen! Of course there should be good perch in the river, but it is fairly inaccessible.

The weather has been good, and catches of flathead, bream, blackfish and flounder have been made.

A new retaining wall has made the eastern bank of the canal a pleasure to fish from now. I understand that £13,000 has been spent on it. One is able, after crossing by punt, to use a good road along the retaining wall, past the fence, right down to the point. In time this should be the mecca of darky fishermen. That is of course if the locals let the fry grow up! A man, one could hardly call him an angler, fishing near me recently, was joyfully bagging blackfish that would hardly protrude each side of his hand when held!

I bagged a nice flathead and a flounder. Also on prawn, landed undersized mullet, bream, tailor, blackfish, and oversize spiky toads. The strength of the bony dentures of these latter rubbish is astounding. It's all one can do to cut a hook out.

Sam Marshall bagged a few flathead, bream and flounder as did Zen Beer and Keith Stubblings. Bobby Friend is coming back to his old form and landing a few.

Incidentally, the canal takes a bit of working these days. It's necessary to make a good cast and frequent retrieves, as the swift current soon washes the bait to the sides of the channel. Of course the best time is on the turn of the tide, however, that does not last longer than say 15 or 20 monutes.

Zen Beer has returned from a holiday at Batehaven and reports boating 70lb. of snapper. Unfortunately, the southerlies were prevalent, which wasted quite a deal of his holiday as far as fishing was concerned.

It shouldn't be long now before the Jewie are about in the Shoalhaven so get those 18lb. lines ready! Not large enough? Well, these days I'm down as light as possible. Wherever I can, I use a ½ oz. sinker and a 6 to 8lb. line. It's much more fun.

Bait prawns are a good size at the moment, one can get nearly 70 baits from half a lb.! Recently I purchased 1lb. of large prawns that went nowhere. Even if they are cut in half they are still not as economical as the small ones.

It would appear that the surf rig is not as popular these days. I notice the majority of anglers using a running sinker rig: short for bream (6" to the hook), to 12" for other types.

And don't forget the legal size of the populars is:—

Blackfish	10"
Bream	10"
Flathead, spiky	9"
Flathead, sand	13"
Flathead, dusky	14"
Flounder	9"
Jewfish (Mulloway)	18"
Cockneys, Red	
Bream & Squire	11"

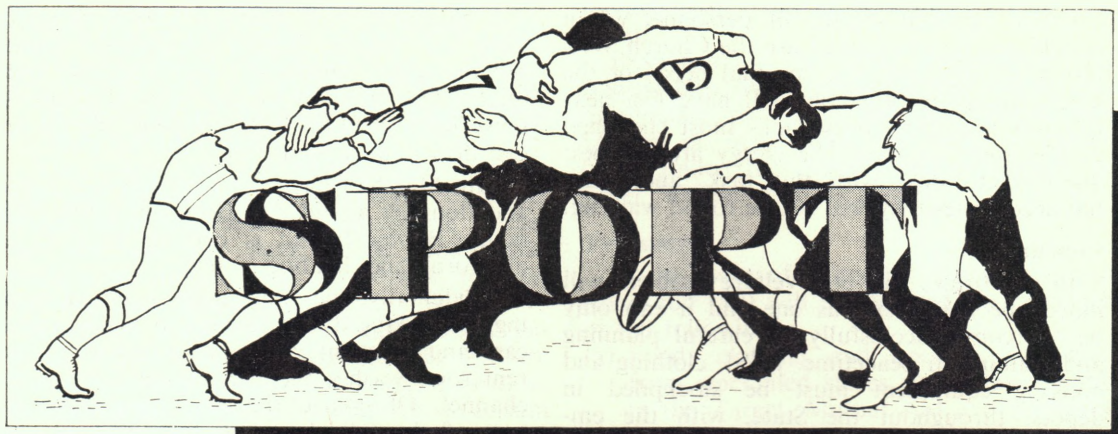
From the Editor's desk:

"I've been trying to think of a word for two weeks."

"How about 'fortnight'?"

* * *

Delegation is the secret of Executive sanity.



A Roundup of the Month's Activities

FOOTBALL

Berrima Football Club played Picton in the first competition game on Sunday, 29-4-62. Although beaten 27 to 8 the score was no indication of the game as Picton were lucky to score on at least three occasions. Picton, who are early favourites to win the Second Grade Competition, received a big shock from the red and greens. Berrima captain, Pat Taylor, decided to play them in the forwards, although handicapped by the loss of B. Moore and W. Mangold who were not available for selection. R. Dickson and D. Garbutt should not have been playing because of injuries they received in early matches but they more than held their own with the Picton forwards. Berrima backs did not see much of the ball because of the tactics used by the Berrima captain, but did everything that was asked of them. It is hard to pick out any player as they all played well against this very strong team. Berrima suffered a very bad loss in the last ten minutes when young player, K. Hill, received a dislocated collarbone and had to receive hospital attention. Keith was freely tipped to become one of the star players.

BOWLS

Some S.P.C. members of Moss Vale Club paid a visit to Greenacre's Club during the month and had a very enjoyable game—Bill McDonald taking out line honours.

Zone championships were played at Orange on Saturday, 7th and Sunday, 8th April. Our singles player Fred Armstrong went well, winning his first game after being well behind but then after having quite a good lead ran out of steam in his second game—congrats. anyway Fred!

Jim Dray couldn't make the trip so his partner Alan Fraser had to use a substitute and was beaten in the first round.

I'm sure all S.P.C. bowlers will want to congratulate Camden Club on their winning the Zone Final of the No. 1 Pennant. They will now go to Sydney and play off the State Title.

Four of their players who won the S.T.D.B.A. fours have won the Zone Fours and also will compete in Sydney for the State Fours title.

Club games are nearing completion and I must admit there aren't many S.P.C. names among them but quite a lot of our players turned in some good performances.

Jack Douglas must be congratulated for reaching the semi-final of Bowral Club's major singles.

Bill McDonnell and Ron Jenkins of the Colliery have reached the final of Moss Vale Marshall singles, while Dud Crowe is in the finish of the minor singles.

One thing is certain we must have an S.P.C. winner in one of these events.

CARPET BOWLS

Carpet bowls are still as popular as ever, whereas we don't seem to be able to trap a few of the S.P.C.ites out on the green, they are gradually joining the ranks of the carpet bowlers.

Jack Scott, our Works Secretary, was noticed playing good bowls in Sandy Galloway's four at Bowral the other night. Jim Galloway's wife won't have to wash the pillow slips so often now 'cos Jim, playing in Geo. King's four, won the trophies on the toss of a coin from Sandy.

MARULAN: RIFLEMEN DO WELL

Marulan Rifle Club No. 1 team competed in the annual teams match at Canberra last month. The shoot is conducted by the Southern Districts Union.

Marulan No. 1 team won the President's Cup over 500 yards with 155 out of a possible of 160. Individual scores for this shoot were (possible 40)—

N. Shepherd 39

D. Taylor 39

B. Burnfield 38

F. Bell 39

Marulan team also won the Palmer Shield aggregate of 500 and 600 yards and Marulan Tyro team also won the TYRO Cup.

No. 1 team finished second to Canberra at the aggregate over 500, 600 and 700 yards.

Marulan won 3 out of a possible of 7 major trophies.

SOCCER

There are many regrets that the star Marulan Soccer Team will not be fielding its main players this year. The reason is the recently introduced six-day roster at the Quarry.

Marulan were premiers in 1960 and 1961.

CARPET BOWLS

Play in the John O'Neil Trophy competition doubles is now in progress.

Results are very close and the keen and friendly rivalry augers well for the finals, which are expected to be played in June.

The trophy is a magnificent piece of craftsmanship.

TENNIS

The Easter Tennis Tournament proved an outstanding success with ideal weather.

Winners were Mrs. G. Cosgrove (ladies) and Ted Thompson (gents).

N.R.M.A. MOTORING NEWS

N.R.M.A. TIPS FOR DRIVERS

In N.S.W. today there are more than 1½ million licensed motor vehicle drivers.

Some of these are good drivers most of the time; some are good drivers some of the time. Many drivers, however, have periods when their minds are not on the job of driving. It is at such times that accidents are most likely to occur.

At least one accident in four happens when the driver's attention has strayed. One of the soundest pieces of advice that can be given is to **CONCENTRATE** at all times when in control of a motor vehicle.

High on the list of accident-producers is "failure to give the right of way at an intersection".

The driver who wishes to avoid accidents must use more than ordinary care at intersections. He must also know the rules applying to intersection behaviour. Unfortunately, there are some motorists who apparently do not know the law in this regard.

The N.R.M.A. strongly advises all drivers to make sure that they fully understand intersection rules. If doubtful, a booklet is available from the Department of Motor Transport, or motorists may obtain this information from a specially-prepared N.R.M.A. booklet, "Driving is an Art", which is available free to all drivers.

Above all, use vigilance and commonsense at intersections.

Never fail to remember that excessive speed is a prolific killer. Many serious accidents occur when vehicles are driven at speeds too fast for the circumstances. Some drivers take foolish risks in travelling at high speeds in traffic conditions which call for much steadier driving. Obviously, an accident at high speed is likely to be much more serious than one at a lower speed. No motorist should ever drive faster than good judgment tells him is completely safe.

The N.R.M.A. urges all drivers to do the right thing by themselves, by their families and by their fellow road users. Drive with good manners and keep your mind on your driving.

WOLLONGONG BY-PASS

The Department of Main Roads has closed a section of the Mount Keira Road in West Wollongong to enable construction of a bridge over the Wollongong by-pass.

This work will take about 12 months. The N.R.M.A. advises that a detour via Phillip Avenue and Fisher Street is available.

NEW LAW IN CALIFORNIA

It is now unlawful in California for anyone to sell a new passenger vehicle that is not equipped with anchors for the installation of seat belts or safety harnesses.

A new law, effective as from 1st January, 1962, specifies that any such vehicle manufactured after the first of the year must have anchors for belts for at least two passengers in the front seat.



MAY

FLOWERS

SOW: Antirrhinum, Candytuft, Godetia, Linaria, Lupin, Nemophila.

PLANT: Carnation, Dianthus, Pansy, Iceland Poppy, Stock.

VEGETABLES

SOW: Broad Beans, Onion, Parsley, Peas.

PLANT: Cabbage (Winter), Asparagus, Eschalots, Artichokes, Rhubarb.

Frosts are again with us, with the promise of four months' cold weather at least, so that means the end of our Summer and Autumn blooms. Even the chrysanthemums will not stand much frost.

Lift the dahlias when the stems and leaves have turned yellow, cutting off the stems about twelve inches from the tubers and label with names and colours before storing in dry sand away from frosts. Use tin or plastic labels as it is wonderful how cardboard or wooden labels become eaten or rot away during storage. Look at these tubers sometimes during the storage period in case they may be rotting.

If new growths are visible at the base of perennial plants, cut the old stems back to the ground; if not, cut off only the old flower heads.

Cultivate lightly between seedlings to keep down weeds. Early Iceland Poppies should now be in bloom. Cut the flowers frequently to ensure continuance of blooming through the winter.

Prepare for and plant trees and shrubs from now on until about the end of July.

Some of the following shrubs may interest you:

For shade or semi-shade—

Evergreen (Camelia (including Camellia sasanqua, the Autumn-blooming species), Abelia, Daphne, Dwarf Conifers, Cotoneasters.

Deciduous: Maples, Hydrangea, Virburnum, Flowering Quince, Mollis Azaleas.

For General Purposes—

Evergreen: Pyracantha and Cotoneasters in variety, Ceanothus, Cytisus, Euonymus, Escallonia, Grevillea, Berberis Darwinii, Conifers in variety.

Deciduous: Prunus, Weigela, Virburnums, Cercis, Chimonanthus, Forsythia.

Order roses now, for planting as soon as they are available. Practise rotation of crops in the vegetable garden to get the best results.

Dig any spare beds over now, getting rid of weeds and old vegetable plants. The soil should be left in a rough state for some time for the frosts to sweeten the soil.

LET'S LAUGH

It was in the middle of the second half of the floodlit football match when the lights failed.

"Is there an electrician on the ground?" asked the announcer over the loudspeaker. Nobody came forward except a little Chinaman who told the announcer, "I come to bring back your lights."

"Are you an electrician?" asked the anxious organiser.

"No, but all will be well if I can use your loudspeaker," replied the Chinaman. He then announced: "Will all spectators please raise their left hands." Nothing happened, despite the sea of waving arms. Through the darkness came a muttered "Not enough," followed by the request: "Now will you please also raise all right hands?" As more arms shot up, the lights came on again to the amazement of the organiser who asked, "How did you do it?"

"Easy," said the Chinaman. "Confucius say, many hands make light work."

* * *

Definitions:

Executive—A person who can take two hours for lunch without anybody missing him.

Electric blanket—A very pleasant substitute for the passions of yesterday.

Interior decorator—One who actually gets paid for perpetrating in your home something he would never dream of doing in his own.

* * *

She was crying!

"Sweetheart," he said, "let me kiss those tears away!"

She fell into his arms, and he was very busy for a few minutes. But her tears still flowed on.

"Darling," said he, "Can nothing stop them?"

"No," she murmured, "It's hay fever, but go on with the treatment."

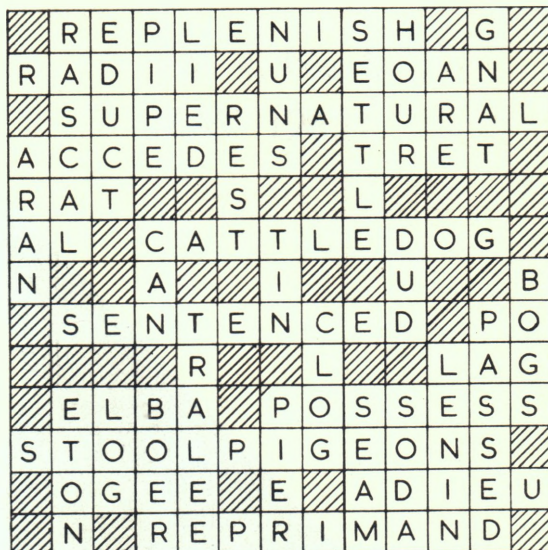
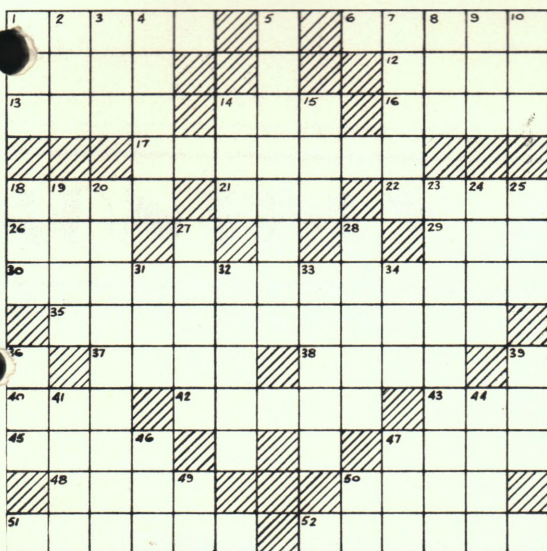
- PUZZLE PAGE -

The result of Problem No. 38 is shown at right. Winner this month was Miss Barbara Brooks, of Moss Vale. Congratulations, Barbara!

PROBLEM 39

Across:

1. Mitigate
6. Remnant
11. Idolise
12. Matured
13. Cattle
14. Bleat of a sheep
16. Town in N.S.W.
17. Made twice as much
18. Performs
21. Part of the foot
22. Cast armourous glances
26. Spoil
29. Loiter
30. Prevailing
35. Partake
37. Tinges
38. American coin
40. Limb
42. Put off
43. Greek letter
45. Biblical character
47. The refuse of grain
48. Association
50. Animal
51. Dissolved
52. Large bird



Down:

1. Fuss
2. Spar
3. Partook of
4. Inclines
5. Devilish
7. The creed
8. Disencumber
9. Imitate
10. Writing implement
14. Conjunction
15. Beverage
18. Abbr. for electrical unit
19. Fish
20. Type of mill operated by the foot
23. Sparkled
24. Alley
25. Nourishing food
27. Chose
28. Prank
31. Barren
32. Niggard
33. More pleasant
34. Colour
36. Pouch
39. Prohibit
41. Nation
44. Edible plant
46. Hard fruit
47. Masculine name (abbr.)
49. Exist
50. Perform

PS

SPC

Vol. 4, No. 6

JUNE, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

GENERAL MANAGER'S NOTES

For the first time since May, 1959, both the Berrima Works and Marulan Quarry operated for the full month without a lost time accident, which is a very creditable performance, and I offer my congratulations to all concerned.

The Works' frequency rate for the year to the end of May was 3.2, which compares very favourably with the other groups in B.H.P. and associated industries.

The Quarry has a long way to go before its frequency rate improves to a satisfactory level, however, there has been considerable improvement this year compared with previous years.

It is apparent that the accident prevention course undertaken by all our foremen last February is having the desired effect in that they are passing on to their men the idea of safe working which is the goal of our safety first campaign.

Please let us keep up the good work.

S.P.C. MONTHLY NEWSLETTER

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• EDITOR

M. D. Hauber

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AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

• COPY DEADLINE

1st of the Month

Vol. 4, No. 6.

JUNE, 1962

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Puzzle Page	Outside Back Cover

— Departmental Representatives —

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES	Mrs. C. CROWE Berrima
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— EDITORIAL —

Dear Readers,

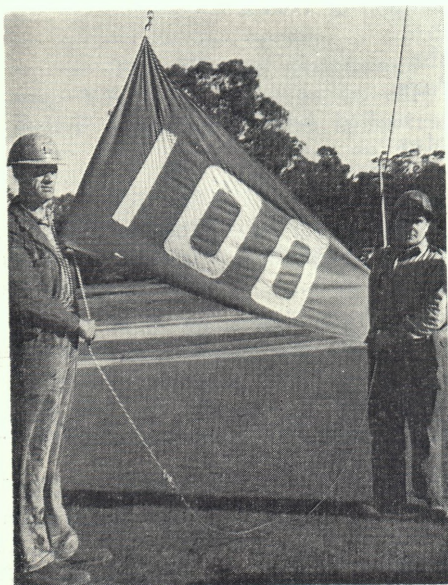
This month heralds yet another major change in our S.P.C. Newsletter. We are happy to report that production of the magazine is now in the hands of a local printer, Southern Highland News Pty. Limited, of Bowral, with whom many readers are no doubt familiar.

Our magazine has been running 3½ years and it is fitting that we can now refer to it as a completely local production.

A change is always a good time to instigate improvements, no matter what the product. With this thought in mind I have tried to present the magazine this month in a slightly different

that, SAFETYWISE, we can never let up—even for one moment. With 120 days on the board at this date, we cannot afford to become lax; our goal will never be reached whilst we have near misses, sooner or later the record will tumble. Therefore, WE MUST BE ON THE BALL if we are to continue with no lost-time accidents. It can be done; is it any harder to get 240 days than it was to get 120? We think not, but we must all co-operate. Surely everyone of us receives satisfaction from knowing that we are, as a team, getting somewhere with our safety campaign.

The pictures on this page show the raising of the 100 day accident-free flag by Tom Aitken and Hans Namivirs.



form, taking into account the suggestions of readers who have been giving the subject some thought.

I feel that I must again enthuse on the safety record we are enjoying at present. However, we are sailing very close to the wind with a few near misses as this issue goes to press. It only serves to strengthen the argument



It is to be hoped that we will soon be hoisting the 200 day flag and I can assure you that extreme satisfaction will be had by everyone when they see this flag flying.

Until next issue,

Yours,

The Editor.

Berrima to the Cross Roads

By Mr. A. M. Reynolds

(Continued from last month)

Continuing on we come to the road which branches off to the colliery. On that corner there was another hotel—you can count that in Berrima if you like, to make up the thirty. It was also one of the places which didn't last long. Warren was the man who owned it. A short distance from this road is the trainline which runs out to the mines, and that is the S.P.C. trainline and was put down in the very early days.

Now past the trainline, you start up a long gradual slope, at the foot of which, if I remember rightly, is a bridge known as Murder Bridge. That is where, apparently, a soldier, buried in the Sutton Forest cemetery, was killed by a convict. When you get to the top of this hill you look down on what used to be the Three Legs O'Man, and there was quite a settlement there—two stores and a bootmaker's business.

The Three Legs O'Man hotel was a was a fair sized stone building, bigger than any of the other hotels in Berrima. It was a two storey place and originally had a shingle roof but was later covered with galvanised iron. Of course I remember it well as my mother was born there, married there, and I was born there. I can always remember the smell of the cedar as you walked into the house. All the fittings, furniture, doors, windows, etc., were cedar and it was one of the most modern, up-to-date hotels on the road. They catered for every comfort, but compared with the comforts of to-day it was a long way short of good. If you happened to be a V.I.P. you were given a bucket of hot water, and a bucket of cold and you would have your bath there in front

of the fire. If you weren't a V.I.P. you were given a tub and a bucket of water and shown the shed.

Right opposite the hotel was Oldbury, James Atkinson's property, which was built by convict labour. Oldbury continued to the Golden Vale road on the left, whilst on the right was Evandale, later taken over by Edward Carter. Carter controlled all the country west of the Hume Highway to the Wollondilly River and south to the Belangelo Road. Carter of course bought all this country—it wasn't a grant. What he didn't buy he leased, or gained control of in some way. However, there was one old chap who got a footing there and Carter didn't appreciate it. Efforts to get him out failed as the old chap wouldn't budge. The old fellow spent most of his time stripping wattle bark for which there was a good demand and when Carter found him operating on new property he thought, "Here's my chance to get rid of the old chap. I'll get him to the police station and have him arrested." — it was necessary to have a permit for stripping wattle bark. But the old fellow had been too smart—he had slipped up to Goulburn instead of going to Berrima, and got his permit and when Carter reported him, of course the police and a few others went out to arrest him. The old chap was something of a poet and could always come up with a few verses whenever anything happened, be it happy or sad. This was no exception and the following verse is one that still exists—there may be others—and was loaned to me:—

(Continued on Page 10)



QUARRY DEVELOPES



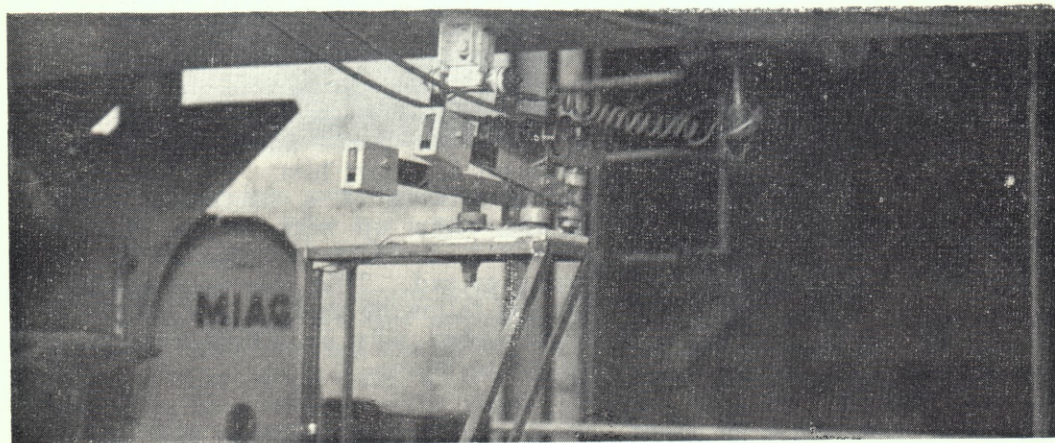
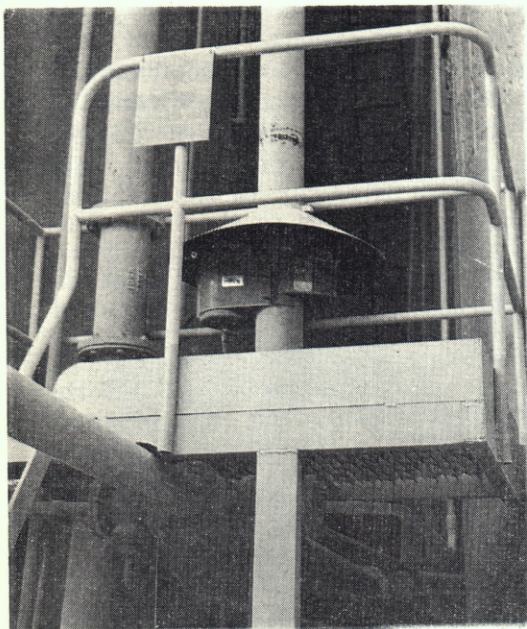
ISOTOPES



SED



HEAT CONTROL



✓ **PLANT JOTTINGS**

Next November the first stage of the Basic Oxygen Steelmaking plant will be commissioned at Newcastle.

The basic oxygen process calls for the use of high quality calcined or burnt lime of sufficient robustness to allow handling and storage without undue slaking or fragmentation.

Limestone, currently being quarried at Marulan, and indeed most other limestone quarries throughout Australia, does not form a suitable calcine, but suitable limestone is available in the southern end of the Marulan leases, some half-mile distant from the present workings.

While the Marion shovel is establishing a road, and working bench, in the area on the 1890 level, a diesel shovel and fleet of trucks is removing, on contract, a large tonnage of tertiary clays and grits which form a capping over the limestone.

Picture shows the Contractor's shovel and trucks at work on the 1940 level.

The first nucleonic measuring device to be used at our Works has been recently installed. It is an Ohmart fluid density gauge which continuously measures and records the density, expressed in terms of per cent water content, of the slurry being pumped from the raw mills to the slurry storage silos.

The importance of keeping the water in the slurry at the desired level becomes apparent when it is realised that for every 1% increase in water, the kilns, working at full capacity, would consume an additional 2,000 tons of coal per annum. Further benefits accrue if the water content can be maintained constant as this eliminates one of the many variables that affect kiln operation.

The principle of operation of the Ohmart density gauge depends on the absorption of radioactive rays by the slurry passing through the pipe. A point source of gamma rays, the isotope caesium 137 being used in our gauge, is mounted on one side of the slurry pipe and a measuring cell on the opposite side. Gamma radiation energy from the source passes through the slurry filled pipe, the amount of energy absorbed being proportional to the density of the slurry. Radiation not absorbed is detected by the measuring cell which converts the radio active energy into electrical energy, the latter being amplified to give a control signal, proportional to slurry density, suitable for operating the recorder.

The signal may also be used to actuate valves to automatically control water additions to the raw mills and this refinement will be incorporated at a later date if considered desirable.

Until recently very little has been done to assist burners in the operation of cement kilns and much reliance has been placed on the practised eye, skill and experience of the burner. The trend in modern kiln installations is to provide more comprehensive instrumentation and automatic control of many of the kiln variables.

One such aid to the burners has recently been installed on No. 4 Kiln, that being a thermocouple located in a pocket in the calcining zone of the kiln. This thermocouple is designed to measure the temperature of the meal prior to its entry into the burning zone. Variations in this temperature will indicate to the burner a change in conditions in the kiln and will enable him to take corrective steps long before such conditions become apparent within his limited range of visibility.

This thermocouple installation is still in the experimental stage but it is hoped that after teething troubles have been eradicated it will prove a valuable aid to kiln operation.



(Photo by courtesy of N.S.W. Civil Defence Org.)

The Dimensions of Disaster

A FURTHER SERIES IN OUR TRAINING PROGRAMME

Because no nation has ever suffered a full-scale attack employing modern thermonuclear weapons, there is no direct experience to use as a basis for appraising the damage this country would suffer under such an attack—or for gauging what government, industry,

and others in the community might do to provide protection.

To assess the damage in advance, we must turn to data drawn from painstaking studies of the relatively small attacks on Hiroshima and Nagasaki, and from the tests conducted in the years since.

These give reasonably precise knowledge of the effects of a single explosion. And they make it possible, with only slightly less precision, to calculate the effects of a known pattern of bursts.

Attack Estimates. To estimate the results of large attacks, however, we must assume a range of factors: total size of attack, size of individual weapons, types of burst, and—most controversial of all—the nature of the targets. In other words, we must try to divine the enemy's strategy. Any estimates we produce reflect the assumptions with which we begin.

Another important variable is the burst pattern. Surface bursts do the most blast damage to missile sites and airfields, hence might be chosen for military targets. They also yield radioactive fallout that can kill people and disrupt life many miles from the target. On the other hand, air bursts inflict blast and fire damage on two to three times more area. These might well be used against "soft" military targets and centres of population.

The smaller attack, directed partly at cities, could actually cause more deaths and damage to industrial facilities than would the larger attack aimed solely at military targets, because industrial facilities tend to be concentrated in or near centres of population.

Destruction Varies: In assessing this grim picture, it is important to realise that destruction would not be universal. Nor would it be uniformly distributed. Some areas would be essentially unaffected. Others, nearer targets, would be physically untouched but contaminated by fallout. Closer in, there would be areas with even greater fallout concentrations, plus fire damage. Moving in still closer, blast damage would be heavy, and fire and fallout would make conditions still worse. Finally, there would be centres of virtually complete destruction.

It should be clear that no company management can predict which of these varying degrees of destruction might

hit its facilities. It is equally clear, however, that there would be many areas in which protective measures, such as shelters, would be effective. And the "graded" nature of the damage offers some clues to the approach management might take in planning for survival—approaches that will be examined in more detail later in this report.

Finally, this effect to gauge the dimensions of the disaster resulting from a large-scale nuclear attack gives some idea of the environment in which individuals and companies must try to rebuild. There would be no "business as usual", even in the relatively unscathed areas of an economy that has suffered major disruptions to the services on which industry depends—communications, transportation, utilities, raw materials, fuel, food, money and credit, to name some. This glimpse of the post-attack period gives urgency to efforts to plan now for the problems of the recovery.

—*—

SURVIVAL AND RECOVERY

Why Industry Needs to Plan Now: How to Go About It.

What can business and industry do to prepare for the possibility of nuclear attack?

If our plant suffers a direct hit, obviously there is nothing. But the likelihood is that, even in a massive assault, the degree of destruction would vary. So we have some chance to survive and to recover.

What Plans Should We Make? We are responsible for seeing that the company continues to exist and to function. In the narrowest sense, this responsibility is directly to the stockholders—the owners. More broadly, we have a responsibility to our employees, their families, the community, and the nation. The company's organisation and resources could be vital in coping with the crisis an attack would bring; the services it performs could be equally essential.

In the ordinary course of business, we plan some form of insurance to protect our company against a variety of risks—fire, windstorm, and so on. A large-scale nuclear attack is a risk that has never become reality. But it differs only in magnitude from the risks we routinely take into account. It is over-simplifying only slightly to say that we can apply the principles we use in preparing for other risks.

Seeking a Balance. In building a conventional insurance programme, we would try to assess the risk as realistically as possible—the degree of damage that might be inflicted, how likely we are to suffer each degree of damage, how much it would cost to buy different amounts of protection. From these calculations, we would then strike some sort of balance, to give us the most protection possible for the money we can spend.

How would this approach apply, for example, to protecting the company's personnel from the effects of a nuclear attack?

We can't do much to protect against a direct hit, of course. But with nuclear attack, as with other risks, we don't assume that total loss is certain. The best estimates suggest that the most widespread danger will be from fallout. Second in order of probability comes fire; last is the combination of fire and heavy blast damage.

We must consider costs as well as probabilities. In general, the closer we might be to the target, the more it would cost to provide physical protection.

Balancing these two factors, it seems relatively easy to justify steps for protection against fallout. For a minimum investment, we can achieve some measure of protection against the most likely hazard.

Guidelines. To draw up an effective plan, we might think broadly along these lines:

The plan should start with top management—and top management should give it continuing support. This means launching the preparations with a meeting of directors or key officers, assigning the planning job to responsible people, informing employees of the policy over the chief executive's signature.

The plan should be firm. In other words, it should not ebb and flow with the tides of international tensions, as some past planning has done.

At the same time, the plan should be frequently reviewed to keep it in tune with changing conditions. New weapons, for example, might make our previous preparations obsolete.

The plan should suit the community. We should co-ordinate it with plans for local government and neighbouring industries. We should also consider what to do about employees' families and nearby residents. But, in most cases, we probably shouldn't count on civil defence authorities to solve all our problems for us.

The plan should be suited to our company—its own resources, problems, type of operations. Some companies have found that streamlined procedures devised for the emergency plan can be applied to make everyday operations more efficient.

Conclusion. This is in fact what we are doing, and will continue to do, at S.P.C., and WE NEED YOUR SUPPORT.

—*—

INDUCTIONS

The following employees started with the Company during the month:—

Ray Southerden, John West, Bill Simons (Production).

Grahame Duff (Maintenance).

Alan Sheather (Laboratory).

We take this opportunity of welcoming you chaps to the Company and may your stay be a long and SAFE one!

N.R.M.A. MOTORING NEWS

The Expert Driver

What are the qualities of an expert driver?

Here are some standards set down by the N.R.M.A., which says that those who wish to assume fully their obligations as road users can cultivate the qualities of the expert.

The expert driver—

Can park easily, quickly.

Can change gears efficiently, up or down.

Can travel slowly, forwards or backwards, smoothly, safely.

Does not accelerate sharply or brake suddenly unless in an emergency.

Handles his vehicle SMOOTHLY at all times and under all conditions.

Keeps both hands on the wheel, except when signalling or changing gear.

Is constantly aware of all that is happening around him and keeps his eyes moving across his driving range.

Knows and observes the traffic laws.

If he has any disability, knows it and makes allowance for it.

Can handle a skid, a blowout, a sudden braking emergency.

Exercises good judgment — never takes a risk.

Appreciates the need to be especially

alert where children are on or near the road.

Has the right outlook on driving because he respects the rights of other road users.

Is courteous.

Keeps his car in first-class safety condition.

Drives in harmony with his fellow motorists.

How do you measure up?

You owe it to yourself and to the community to overcome your deficiencies and to become an expert.

Lookout at Mt. Keira

Recent improvements to Mt. Keira Lookout include a brick kiosk and residence, at a cost of £12,000. This brings the total amount spent on the lookout, which provides the tourist with one of the most picturesque and breathtaking views on the South Coast, to £30,000.

It has been developed by the Wollongong Council, with the help of Wollongong Rotary Club.

When the premises are occupied in the near future, all services will be provided at the kiosk, the restaurant section of which has facilities and seating accommodation for 50 guests.

LET'S LAUGH

It is said that Scotsmen make good golfers because they realise that the fewer times they hit the ball, the longer it will last.

While many men owe their success to their wives, some owe their wives to their success.

Some people are like blotters. They soak it all in—but get it backwards.

How beautiful it is to do nothing and, after doing nothing, to rest.

Notice outside a tourist agency: "Why don't you go away?"

If, as the scientists say, sex is such a driving force, why is so much of it nowadays found parked?

The diner had been waiting a long time for his order. At last his waiter approached and said, "Your fish will be coming in a minute or two now sir."

The man looked interested. "Tell me," he said, "what bait are you using?"

MORE LAUGHS

The business man's wife confided to her maid, "I think my husband is having an affair with his secretary."

"I don't believe it," the maid said, appalled. "You're only saying that to make me jealous."

—

Applying at an accounts department for his first job, the teenager was rather taken aback by a question on the application form which read: "What machines can you operate?"

Pausing briefly, he finally wrote: "Slot and fruit."

—

Bank manager to customer: "I have, together with my superiors, reviewed your financial situation and we have decided that we should revert to our original arrangement whereby you banked with us."

There are two periods in a man's life when he doesn't understand women—before and after marriage.

—

"Well, don't think," said the wife, that you're going to run off and play golf, leaving me alone with all this work to do."

"Why, golf's the furthest thing from my mind," replied the husband, munching his breakfast. "Please pass me the putter."

—

Daughter (just home from Prep. school): "Daddy, what is vice?"

Father: "Vice is iniquity, loose living, drunkenness, gambling, but why do you want to know?"

Daughter: "I've just been made captain of it."

Berrima to the Cross Roads

(Continued from page 3)

"Come all ye jolly bushmen, a story I will tell,

That happened in Rat's Castle, you all must know it well;

One day as I was working there, there did to me appear

A regiment of soldiers, and a private volunteer (refers to Mr. Carter).

He came, likewise a forest ranger.

Yes, West was his name,

And a son of Edward Carter who lived at Golden Vale.

They thought to make a capture and laughter brought to frown,

For the old wattle bark stripper made them all bow down."

Next we come to the Belangelo Road which runs through the State Forest and on to Black Bobs Creek where Carter first settled. Being so far out of town he built his house of mud and

it still stands to-day, although it has a new roof.

On then to the Morrices' property, on the left was Ealing Forest and on the right Comfort Hill. Each place was owned by a Dave Morrice, one was called White Dave, the other Black Dave. We're getting on now close to Black Bob's Creek where there was a school. No sign of it now, except a few stones where the fireplace stood. After crossing the bridge we came to George Morices' Eccleston Park, on the right and an old cottage on the left which was, for many years, a post office.

And so to the Cross Roads where we find Waterloo, also owned by George Morrice, and the road to Canyonleigh.

Now I would like to conclude, once again thanking my informants, and I hope you have enjoyed reading it as much as I have in presenting it.

Personal Pars — Heard on the Grapevine

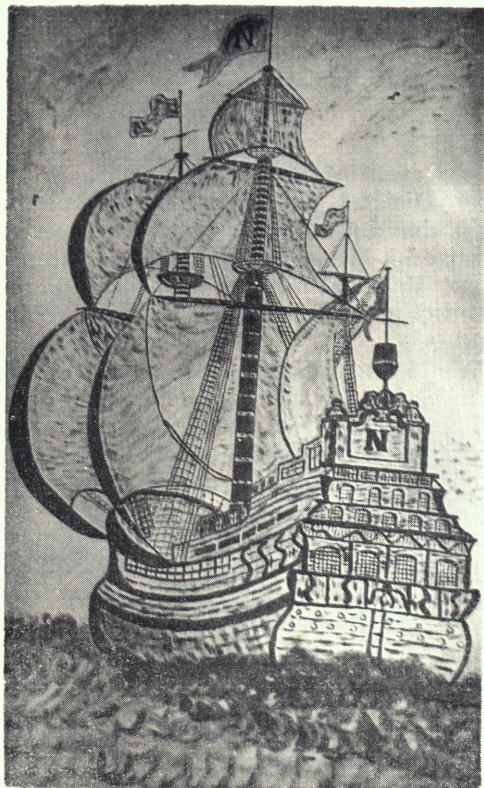
BERRIMA

Up and coming artist Appy van de Molen recently completed a unique piece of work at home. In his son's bedroom, a blank wall was considered an eyesore and in need of some decoration, so in keeping with the lad's taste a mural in black and white was started. The picture below shows the finished product and I think you will agree with me that Appy is to be congratulated on a fine effort.

The S.P.C. cricket team lost a friend and strong member of their team when Keith Larsen left the Company during the month. However, we take this opportunity of wishing you the best, Keith, in your new venture.

The stork was kept busy during the month.

A son to Terry and Mrs. Parmenter.
A son to Joe and Mrs. Bizjak.



Both arrivals took place on the 13th May (Mothers' Day no less) an apt day, don't you think?

Congratulations to you all!

MEDWAY

At Berrima West Village hall on Friday, the 13th April, a very enjoyable social gathering was held by the Staff and Deputies of our Colliery, who, together with the General Manager, Mr. McNicol, were present to show their esteem and appreciation of the period spent working under and with Mr. Len Hole, Colliery Manager, and Mr. Joe Sumner, Deputy, who were both retiring.

The Staff and Deputies wished Mr. Len Hole, who had been Manager of Berrima Colliery since 1945, and Mr. Joe Sumner, who had been a Deputy at the Colliery since 1952, a happy and contented retirement, and presented Mr. Hole with an eight-day mantel clock suitably inscribed, and Mr. Joe Sumner with a travelling alarm clock and smoking requisites.

Both Mr. Hole and Mr. Sumner, in responding, thanked everyone for their very kind thoughts and wishes, and for the expression of high esteem in which they had been held by their fellow employees.





FOOTBALL

Berrima, this season, are having their usual run of ups and downs. Playing against Bowral, the red and greens played scrappy football in the first half but improved in the second half and were unlucky to be defeated.

Berrima suffered another defeat at the hands of Campbelltown, at Campbelltown, playing in conditions as bad as any seen in this Group. Once again Berrima failed to get going early and Campbelltown held a convincing lead right up to ten minutes from time. Berrima then put in a grand final but failed to catch the mudlarks from Campbelltown. This team must be congratulated on the way they handled the ball in such wet conditions.

Berrima v. Camden saw our boys return with their big guns, and show their followers that they can play football when they like. Berrima got on top early and showed the spectators the football they like to see and pay for. Camden accepted the challenge and made Berrima keep on playing fast, clean football. I won't mention any names but I know one keen supporter who was nearly crying because he had to leave at lemons to start work at four.

Berrima v. Mittagong saw Berrima back to its old form with a slow start and before long Mittagong had a 10 to nil lead. The second try coming after Keith Morris, one of S.P.C.'s millers, playing a blinder for Mittagong, picked up a loose ball and was stopped inches from the line by H. Stephens after a fifty yards run. Two quick

tries and conversions by Berrima captain Pat Taylor saw Berrima draw level with minutes left to spare and the score remained unchanged to the finish.

Berrima is still smarting at the loss to Moss Vale of K. Mott who was transferred for a sum of £50. Berrima is very sorry he elected to play in Moss Vale as he would have been a greater asset to Berrima than the £50. All the same we wish you all the best Kenny with your new club. Next issue I will try and bring you up to date on the Best and Fairest points awarded after every match.

BOWLS

We mentioned in our last issue that most District Club championships had been decided, but there were four not finalised—Moss Vale Marshall singles, Moss Vale Minor singles, Bundanoon Handicap pairs and Bowral Minor singles.

Well! only the final of the Bundanoon pairs remains to be completed.

The results are:—Moss Vale Marshall singles: Dud Crowe beaten in the final. Bad luck Dud. The minor singles: we couldn't miss in this one, because the finalists were both S.P.C.ites from the Colliery. Result: Bill McDonnell defeated Ron Jenkins after a very good game — Congrats. Bill, you certainly have got the selectors thinking this year.

Geo. Preston was narrowly beaten in the final at Bowral. Just a thought—three colliery blokes in two finals could have a practice green down one of those tunnels.

The Moss Vale Trophy, one of the District's main fours competitions, has commenced and some of our S.P.C. boys are performing with credit. One four comprised of Johnny D'Adam, Norm Sullivan and Harold Sheather plus an outsider for a skip were narrowly defeated after being 22 all on the 24th end.

Social bowls still continue to be the best competitions for get together of bowlers, and all clubs are having good crowds on their mixed bowls days and charity days.

Bowral Club held a fours competition to assist the new club at Bargo and had good response from district bowlers. m Bell of the colliery upheld the S.P.C. name and collected a trophy.

Bundanoon held their once a month mixed day on Sunday, 27th May, and despite the bitter conditions had 36 bowlers. Amongst them were Jack Brown and wife and Sandy Galloway and wife. Mrs. Galloway was in her

usual trophy winning form and helped Al Counsell's four collect the prizes for runners-up.

Moss Vale club visited Fraser Park on Sunday, 27th, and those to travel were Len Knight our Works Manager, John Fuller, Sid Hurst, Sam Fleeton and Jack Mott.

Fuller, Hurst and Fleeton were in the same four and collected the trophies. Len Knight was sick of being Jack Mott's boss all the time so Jack skipped—I can't find out just how hard he treated Len—but he's still on the S.P.C. payroll.

GOLF

The cold weather doesn't seem to frighten off the chasers of that little white ball. A trip to the Moss Vale Golf Course recently revealed quite a few S.P.C.ites battling around under adverse conditions, some of them not all natural phenomenon either. If you think I'm kidding take a look at Kevin Howard digging this one out of the creek. If I had waited until he'd played this shot I could have shown you an even better shot—he drove the ball two yards hard up underneath the overhead footbridge and had to pick out for a penalty.

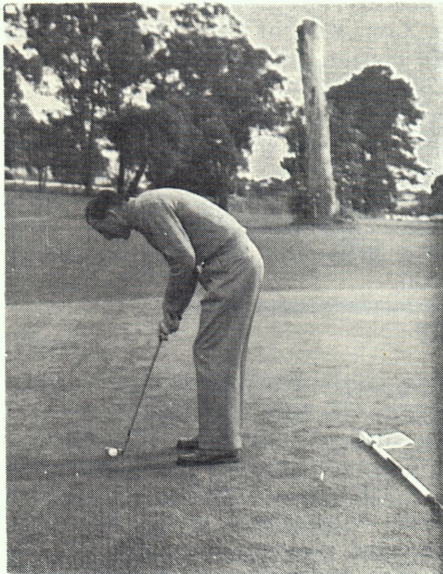


AL COUNSELL
in a typical pose



KEVIN HOWARD
Creek-bound

Take a look at this next shot—is it not a picture of concentration! It is apparent that the ball is going to be charmed into that illusive cup.



LLOYD VEAL
Concentrates!

I don't know whether our Chief Engineer intends taking up baseball but by the look of the grip in the picture below, he could be. However, we are not "knocking" your style Jim as many good cards have been returned by players using a similar grip.



Am I wrong or is that an L plate Ernie Radnidge has on his golf buggie! If you look closely at the picture (bottom left) you can see Ernie in the background fiddling in his bag. Probably looking for a new ball, having no qualms about the creek hazard on this next hole or maybe he's pulling out an old one with a smile on it!

Bert McIntosh, also in the background, seems to be pondering on just how to attack this hole. However, I like the picture below better, don't you agree!



"No, I'm not going to hit until they get off the green"



That old basketball grip!

FISHING NOTES

There's no need to go to Lake Eucumbene for good fishing! Ernie Radnidge's daughter fished two sizeable trout at Welby. I understand the bait was liver! As far as that goes there is no reason why some good fish can't be caught in this locality.

I've seen flathead caught with artificial prawns, but I will be able to let you know in the next issue how artificial worms go! The ones I have are made in Japan and look quite like the real thing.

A few of the kiln floor men have been outside with mixed success. Arthur Blizzard bagged some nice whiting in the bay south of Coomerong Island

point. From what he tells of passing sharks in the vicinity of the Coal Wharf, I would not recommend dangle anything from a boat but the line! Their presence could indicate that the fish are plentiful in the canal or it could be that they are all frightened out.

Zen Beer and Keith Stubbings did well with mixed bags in the Canal. Also Bobby Friend landed five nice bream and two flathead in the Canal. There are plenty of darkies about. Peter Steindl bagged 54 in one catch, south of the punt.

Now don't rush down to the Coal Wharf—your duco will be cut to pieces with lantana!

Gardening Notes

By. Mrs. C. Crowe



JUNE

FLOWERS:

Sow: Alyssum, Antirrhinum, Candytuft, Dianthus, Godetia, Hollyhock, Larkspur, Nemophila.

Plant: Roses, Evergreen and Deciduous Shrubs and Trees.

VEGETABLES:

Sow: Broad Beans, Onion, Peas, Parsley, White Turnip.

Plant: Asparagus, Eschalots, Rhubarb. Deciduous Fruit Trees and Berry Fruits such as Gooseberries, Currants, Raspberries, Loganberries, etc.

Pruning of shrubs and trees can be commenced this month, however, leave rose-pruning until July.

General Pruning Rules

1. Prune all trees and flowering shrubs **after** they have borne their crop, whether it be of flowers or fruit, to give as long a growing period as possible.
2. Have sharp, clean tools.
3. Prune to keep the natural shape of an ornamental plant.
4. Remove all dead and decaying wood.

5. Make all cuts as close to the branch as possible. Stubby bits left will only die back.

6. Burn all prunings, especially if diseased.

7. If pruning cuts are large, cover over with a paste of Bordeaux powder and water and when this is dry, cover again with a waterproof dressing such as ordinary paint or grafting wax.

Continue winter digging in the garden, well-manuring the ground and leaving the surface rough.

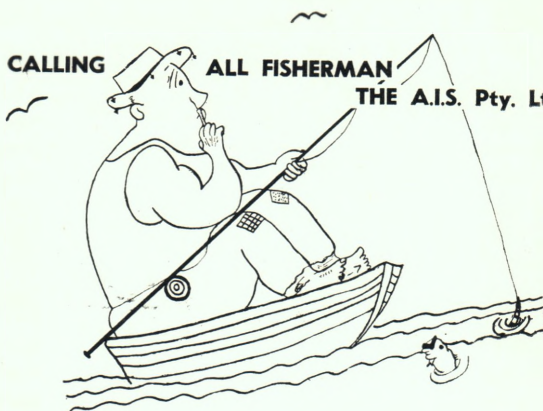
If using lime avoid the lime-haters such as Rhododendrons, Azaleas, Ericas, etc., also blue-flowered Hydrangeas. Lime will turn Blue Hydrangeas pink.

General preparation is the main job for the vegetable garden this month.

See that all tools, stakes and labels are clean and ready for the next season.

Do you know the Harmonious Thrush, one of our most notable songsters? This bird is a real "gardener's friend." Watch it at work, turning over leaves looking for slugs, or sitting on a post knocking the shell off a snail, prior to eating it, and you will realise what a helpful little fellow he is. A medium-sized, mainly grey bird, his song will thrill you as you listen.

CALLING ALL FISHERMAN
THE A.I.S. Pty. Ltd's.



1962 BLACKFISH FISHING COMPETITION

The Contest is Open to All Employees
of the Company and it's Collieries
and Subsidiaries.

The area for fishing has been
enlarged and it is now from:—

**WOLLONGONG HARBOUR
TO
KIAMA BEACH**

PRIZES

SECTION I.

Heaviest Fish for the Day	1st £12/0/0
(With "Gills and Guts")	2nd £8/0/0
	3rd £5/0/0

SECTION II.

Heaviest Bag of Fish for the Day	1st £12/0/0
(With "Gills and Guts")	2nd £8/0/0
	3rd £5/0/0

Prizes will be awarded in the form of Fishing Gear to the
value of each prize (to be selected by the Winners).

Entry Forms are available at Safety - Employment Office

**Sunday
1st July, 1962
6 a.m. - 6 p.m.**

DETAILS

TYPE OF FISH Blackfish JUDGING

BOUNDARIES OF THE AREA

In the North, Wollongong Harbour and
All Points South to Kiama Beach.

FISHING TIME 6 a.m. to 6 p.m.

ENTRY FORMS

These are to be Filled In by Competitors
and Presented to the Stewards at the
Weighing-in Station with each Competi-
tor's Entry.

IMPORTANT

All Blackfish must be Weighed Complete
With Gills and "Uncleaned"

A Weighing-In Station will be established
at the A.I.S. Pty. Ltd.'s Jetty Office (No
2 Jetty) available to Competitors from
12 noon till 8 p.m.

SCRUTINEER & JUDGE

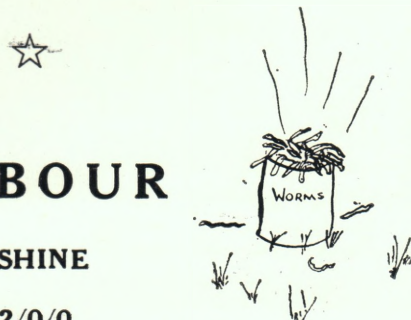
Mr. Jim Christopher, of Christopher's
Sports Store, Keira Street, Wollongong,
will be Chief Scrutineer and Judge at the
Weighing-in Station.

AT

PORT KEMBLA HARBOUR

COMPETITION IS ON RAIN, HAIL OR SHINE

Don't Forget One Fish Could Win You £12/0/0



HOWZAT !

The great fast bowler Larwood when he was holidaying in the country turned out one Saturday to watch the villagers play a neighbouring team. Unfortunately the home team turned up a man short and Larwood was asked if he could play cricket at all. "Yes, I do a bit," he replied, and was duly co-opted.

The visitors batted first and it was soon obvious that they were too good for the home bowlers. In despair, the captain asked Larwood if he could bowl, and if so would he have a go?

His first delivery whistled down the wicket and struck the startled batsman on the pads, straight in front of the

stumps. "Howzat?" Larwood's appeal was virtually a formality, but the umpire—a member of the visiting team—shook his head: "Not out!"

Larwood sent the next ball down faster than ever, and it snicked straight off the bat into the hands of slip. This time the whole team appealed, but again the umpire said: "Not out!"

His blood really up, Larwood took a fast run for his third ball. It travelled so fast that nobody saw it. There was just an explosion at the stumps as all three were uprooted, and the bails were never found.

"By gum!" said Larwood, turning to the umpire. "We nearly had him that time, didn't we?"

Description of a Boy

After a male baby has grown out of long clothes and triangles and acquired pants, freckles and so much dirt that relatives do not care to kiss it, between meals, it becomes a BOY.

A boy can swim like a fish, run like a deer, climb like a squirrel, balk like a mule, bellow like a bull, eat like a pig, or act like a jackass, according to climatic conditions.

He is a piece of skin stretched over an appetite. A noise, covered with smudges.

He is called a tornado because he comes at the most unexpected times, hits the most unexpected places and leaves everything a wreck behind him.

He is a growing animal of superlative promise, to be fed and watered, and kept warm.

He is a joy forever, a periodic nuisance, the problem of our times, the hope of a nation. Every boy is evidence that God is not discouraged by man.

Were it not for boys, the newspapers

would go unread, and a thousand picture shows would go bankrupt.

Boys are useful in running errands. A boy can easily do the family errands with the aid of five or six adults.

The zest with which a boy does an errand is equalled only by the speed of a turtle on a summer's day.

The boy is a natural spectator. He watches parades, fires, fights, ball games, automobiles, boats, and airplanes with equal fervour, but not the clock.

The man who invents a clock that will stand on its head and sing a song when it strikes will win the undying gratitude of millions of families whose boys are forever coming home late for dinner.

Boys faithfully imitate their dads in spite of all efforts to teach them good manners.

A boy, if not washed too often and if kept in a cool, quiet place after each accident, will survive broken bones, hornets, swimming holes, fights, and nine helpings of pie.

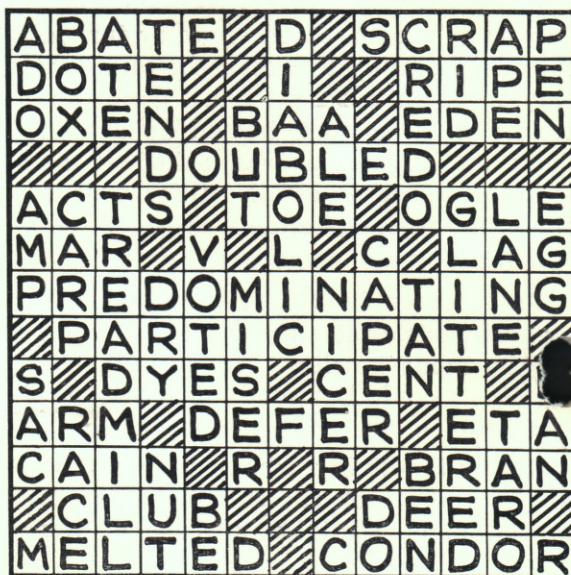
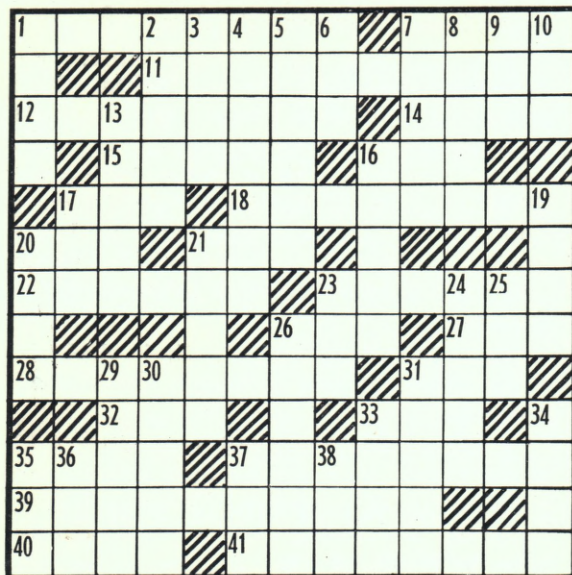
— PUZZLE PAGE —

The result of Problem No. 39 is shown at right. First out of the hat for correct entries this month was Percy Sewell (Electrical Shop). Congrats Percy!

PROBLEM No. 40

Across:

1. Formed in the throat
7. Girl's name
11. Names individually
12. Reconciled
14. Disappeared
15. Fish snare
16. Expose hemp to moisture
17. Boring tool
18. Blunt
20. Decay
21. Pronoun
22. List of things to be done
23. Season
26. Mimic
27. Insect
28. According to convention
31. Fish eggs
32. Associated with gushers
33. Fighting
35. Fuel
37. Ravenousness
39. Undecided
40. Go by
41. Trouble



Down:

1. Attire
2. Doctrine
3. Least whole number
4. Groove
5. Corrects
6. Conducted
7. Artist's frame
8. Condition
9. Males
10. Scottish river
13. Join together
16. Stage show
17. Marsh
18. Greek letter
19. Divide into groups
20. Australian service (inits.)
21. Just right
23. Marta Hari was one
24. New Zealand native
25. Direction
26. It neutralises an acid
29. Bellows
30. Small people
31. Speedcar
33. Steam engine inventor
34. Re-colours
35. Character in "Great Expectations"
36. Historical period
37. Measurement of length
38. Exudation

PS

SPC

Vol. 4, No. 7

JULY, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

General Manager's Notes

After a considerable amount of deliberation we have let the contract for the supply of our No. 5 kiln to Allis-Chalmers International of Milwaukee, Wisconsin, U.S.A., who will be subcontracting the manufacture to their Australian subsidiary. The kiln will be 100 per cent. Australian manufacture with the exception of the heavy plate under the tyres which cannot be supplied locally.

The suppliers of the clinker cooler, coal milling plant and other ancillaries, also the civil works and erection contractors, will be decided in the very near future as the kiln installation is scheduled to be completed by the end of April, 1964, this time including a two months lighting-up period.

Underneath is a photo of the site of the installation and it is proposed that, as work progresses, further photographs will be shown to let you know how the job is progressing.



S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.

Vol. 4, No. 7.

JULY, 1962

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• EDITOR

M. D. Hauber

• PRINTERS

Southern Highland News
Bowral

• ALL CORRESPONDENCE AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

• COPY DEADLINE

1st of the Month

— Departmental Representatives —

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES Mrs. C. CROWE
Berrima



— Editorial —

Dear Readers,

This is going to be a "dilly" of an editorial.

Let's face it. What are the requirements of an editorial? I direct my remarks more to my fellow editors of all the other company house magazines who undoubtedly face the same situation each month and rack their brains for a suitable subject.

Why is this so? I'll tell you.

The G.M. pinches the best items to write about in his notes, the Works Manager thrashes safety and leaves nothing to be said, the Secretary hammers me if I write about industrial relations, the Sales Manager keeps his operations a dark secret, the Chief Engineer bamboozles me with science, the Chief Chemist makes an analysis and comes up with a negative answer, the Maintenance Engineer has to milk his goats and is shattered after the ordeal, plagiarism is an offence, writing about one's self is offensive, writing about one's wife is dangerous, writing about writing is dull — it sounds silly too.

Well, let's write about people!!

After all it's people who make news and in fact that's all I've done here.

Come on, Mr. B. G. King, let's start a campaign for better editorials! I am sure SAPCO can come up with an idea.

Collectively, we strive for a better understanding of our fellow beings and to achieve this aim we must have knowledge; knowledge of how the other half live.

Why not enlarge our circle of friends to include all other cement companies by promoting some inter-company exchange of news through the medium of our magazine?

Monthly house magazines are received from South Australian Portland Cement (SAPCO), Queensland Cement & Lime Co. (QC & L Coy Bulletin), Adelaide Cement Co. Ltd. (Kanga News), and Golden Bay Cement Co., New Zealand (Tarako News). All these are most interesting and a source of much information.

Come on, you editors, give with the ideas!!

Until next issue,

Yours,

The Editor.

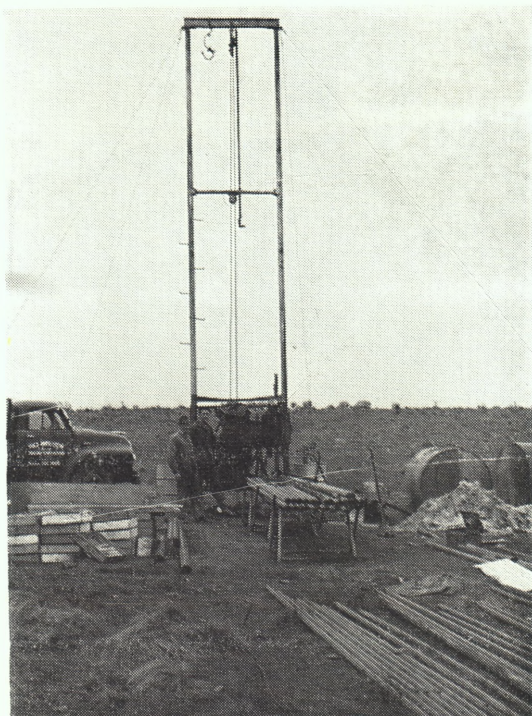
Diamond Drilling in the Sutton Forest Area

Southern Portland Cement are at present carrying out a diamond drilling programme over approximately 9,500 acres in the Sutton Forest district.

In the Berrima district, the Hawkesbury sandstones overlaying the Upper Coal Measures, have been eroded by the rivers that rise on the tableland, the coal seams being exposed in various places in the banks of the river valleys, and these outcrops have been investigated and worked by some of the early settlers.

One of the earliest references to the coal seams of the Berrima district is the report by William Keene, a mining surveyor, who in 1853 investigated the district, and rendered a report on the seams found in the Nattai River, and in Black Bob's Creek. The seam in Black Bob's Creek was eventually worked to supply coal to the Fitzroy Iron Works at Mittagong where the first iron was produced in Australia; later the Iron Company was supplied with coal from its own coal mine outside Mittagong.

Another famous mine was the Joadja Shale oil mine, in the Joadja Valley, where outcrop oil shales were found about 1850, the seam being eventually worked by the Australian Kerosene Oil and Mineral Co. until about the turn of the century, when the mines closed owing to the deterioration of the seam. During the period of operation the population in the Joadja Valley had been nearly a thousand, and nearly 400,000 tons of oil shales had been raised, these some of the richest in New South Wales, yielding as much as 130 gallons of oil to the ton.



A number of collieries were opened in the later part of the 19th century, no doubt realising the importance of the New Great Southern Railway line, the commercial link between Sydney and Melbourne.

One of the first was the Nattai River Coal and Coke Co., which commenced mining in 1877, on the Nattai River near Colo Gap, the coal being brought by rail to Mittagong. This mine eventually closed in 1896. In 1888 Ringwood Colliery was started in Indigo Creek below Exeter, the coal being drawn by a rope haulage for $1\frac{1}{2}$ miles to the main line at Exeter. The Company was liquidated in 1890.

R. S. Baker opened Erith Colliery in 1881, in Coal Creek $1\frac{1}{4}$ miles from the Main Southern Railway Line at Bundanoon.

The main seam worked was the Wangawilli at No. 3 seam of the Southern Coal Measures. The seam is subject to rapid variations in thickness,

(Continued on Page 7)



FACE

LIFT

AT

PIT



MONUMENT

TO

SAFETY

Plant Jottings

Face Lift at Pit

Reconstruction of pit top buildings at the colliery is now completed and has resulted in better conditions at the skip uncoupling section and the weighbridge at the top of the incline. Work was carried out by Macstone Pty. Ltd. and included the fabrication of steelwork to replace the old timbers supporting the turn-round section and the replacement of the building housing the area.

The picture shows the new building and also the unloading of a new haulage rope soon to be installed.



Monument to Safety

In view of the recent award to the Berrima Works Section in the Cement & Concrete Association of Australia safety first competition it was considered fitting to have some permanent record of our past and future achievements in this Australia-wide competition.

The shield is awarded annually to the Company who has the best safety record for the year and in 1960 we gained 1st place. A replica of the shield has been mounted on a suitable monument at the entrance to the Works and will show our future progress. On present records we look like having another 1st place for 1962 if we maintain our present record.

In any event it will be a fine record that beats us, if any!

The monument is a striking feature on entering the Works. Being featured in stainless steel on a white background it reflects the light from all angles and is a reminder to us all that SAFETY PAYS.

1

Minute Safety

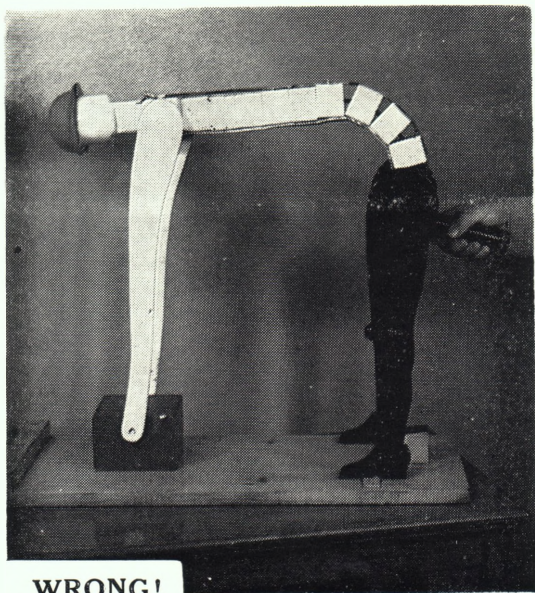
Talk

Remember junior? The pictures below will no doubt refresh your memory.

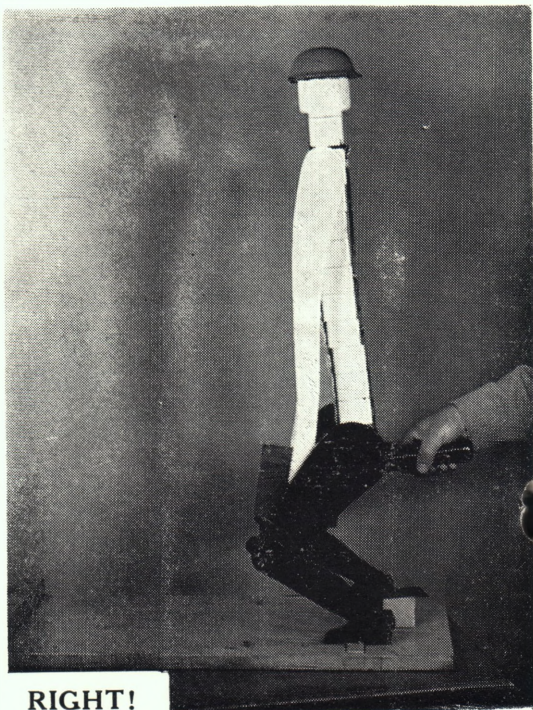
It is interesting to record that junior was constructed after a careful study by safety engineers, of X-ray photographs of the human spine. Fundamentally, what you see in the picture, that is the excessive strain on the vertebrae, is exactly what happens when you lift incorrectly. The back was not designed as a derrick, so don't use it as one. There are thousands of people who will vouch for the fact that,

once strained, the muscles of the back never fully recover. This is supported by the medical profession.

For your own protection, look after your back. If the job is too heavy to lift with a straight back making use of the legs, then get the crane to do the job. Nobody expects you to be a Superman.



WRONG!



RIGHT!

STOP

GO

1961 Apprenticeship Exams

The past year has shown a marked improvement by S.P.C. apprentices in their examination results obtained in the various trades. It would appear that there is a keen awareness of the necessity of an academic background as well as the requisite trade qualifications by the young men of to-day who will be the leaders of to-morrow.

Some credit for the improvement by our apprentices must be attributed to the current programme of apprentice training carried out by Master of Apprentices, Bill Saker. With a closer personal contact together with specialised training including visual education on the plant the improvement is reflected in the following results:—

FITTING AND TURNING:

Ian Mackey	1st in Stage 4
Robert Jeffrey	1st in Stage 3
Max King	1st in Stage 2
Miles Creswick (Marulan)	1st in Stage 1

DIAMOND DRILLING IN THE SUTTON FOREST AREA

(Continued from Page 3)

due mainly to irregularities in the roof. This is a reflection of the general particularity of the seam and erosion and scouring of the original deposit prior to and during the deposition of the overlying beds.

All the mines in the Berrima district have been working outcrop coal, proving the coal as their headings progressed. Diamond drilling to prove the nature, depth and reserves of coal has been carried out, the earliest being in 1886 at Bundanoon.

To prove the reserves, seam structures and quality of the coal, holes are being bored at intervals on a grid pattern, this information received proving the reserves structure and possibilities of the Sutton Forest district.

ELECTRICAL TRADES:

Robert Strode	1st in Stage 1
John Grilz	1st in Stage 3
David King	1st in Stage 3

CARPENTRY & JOINERY

John Hardgraves	2nd in Stage 1
-----------------	----------------

The position referred to above applies to the position in the class and is a fine effort by all concerned.

It is significant that last year only three 1sts and four 2nds were obtained.

In the trade exams Ian Mackey obtained a B pass, Rick Mulready — a C pass and Trevor Mott — a C pass.

Keep up the good work lads!!

Welfare News

S.P.C. EMPLOYEES WELFARE, SICK & ACCIDENT FUND

The first Annual General Meeting of the above fund will be held in the Community Centre Hall, Moss Vale, 8 p.m. Friday, 20th July, 1962.

All members of the Fund are expected to attend to discuss the first year's operation and to direct the Committee on certain issues which have arisen from time to time.

To receive the Chairman's report.

To receive the Balance Sheet.

To elect the Committee for 1962-63 year.

Although any alteration to existing rules would require a 2/3rd majority of all financial members, the Committee may receive a majority direction of those present at this Annual General Meeting on any issue which may be brought forward.

This is YOUR fund, and your money, so YOUR interest is urgently required.

Civil Defence

The Effects of Massive Radiation

The world was first made aware of the frightening potentialities of atomic power on the 9th August, 1945. On that day two American B29 bombers flew over the Japanese city of Nagasaki. The leading aircraft carried the first atomic bomb, and in the second were a number of observers. One of the observers was Sir William (then Dr.) Penny, who had been largely responsible for the making of the bomb, and another was Group-Captain Leonard Cheshire, V.C., the hero of more than a hundred raids over Europe.

To Group-Captain Cheshire the only difference between this mission and the hundreds of others which he had led, was the fact that this time he was travelling at an altitude of nearly seven miles and in the air-conditioned comfort of a pressurised cabin.

As they approached the target, they were ordered to put on glasses so dark that they were scarcely able to see through them even though the day was one of bright sunlight, nor were they able to follow very clearly the dropping of the bomb. Those in the aircraft felt it leave the bomb bay and waited. Cheshire, who had dropped "block busters" and caused some of the biggest explosions in Europe, waited with detachment expecting just another explosion.

No one was prepared for the brilliant flash which enabled them to see through the dark goggles as though they had been made of clear glass. The air over Nagasaki swirled and boiled malignantly and the mushroom cloud which we have come to associate with atomic explosions, rushed towards the circling aircraft.

In those few minutes 39,000 people died.

The advent of the Atom Age could not have been more dramatically announced. The newspaper posters at that time proclaimed in six-inch headlines "Atom Bomb. One Bomb One City" and they did not exaggerate.

Another bomb dropped on Hiroshima killed 66,000 out of a population of a quarter of a million. These were the immediate casualties; the ultimate death roll was much higher.

When the war ended investigations were carried out to ascertain the extent of the radiation received at different distances from the blast and to correlate symptoms with the amount of radiation received.

It is not difficult to imagine the fate of those in the immediate vicinity of the bomb. When experimental weapons were tested in America they were usually supported on a steel tower and fired electrically from a distance. The heat generated at the centre of the bomb is of the order of several million degrees and the steel tower was completely vaporised. A similar fate probably overtook those who were anywhere near the epicentre. (The bomb was exploded above the city and the position immediately below the bomb's centre is known as the epicentre).

Apart altogether from the radiation generated, the heat and blast of the explosion would have killed most of those who were within half a mile of it. As always happens in a calamity such as this, some escaped from situations where all the odds were against them, because they were in positions protected from both blast and radiation exposure, but they were few.

Ninety per cent. of those within a radius of half a mile of the centre of the blast were killed.

In nuclear explosions such as those we are describing, almost every product of fission is present, protons, neutrons, beta particles, and gamma radiation. Those within range of these particles, protons, neutrons and so forth would probably be killed by the blast so that the greatest radiation danger to those outside the blast area is that caused by gamma rays. If you remember what we said in discussing the physics of radiation you will see why this is. Alpha particles do not travel far and would be stopped by clothing in most cases. The same would apply to beta particles, for they only travel for about three feet. Those who escaped the blast too, would be mostly out of the range of the other particles. Therefore, on theoretical grounds, the gamma radiation would represent the greatest danger and this is found to be the case. Neutrons have a range of up to 700 yards, but even this is well within the blast area.

Of those who survived the immediate blast or injury from flying debris or fire, the people most affected were those who had received an all over dose ("whole body radiation" it is termed) of 500 Roentgens or more of gamma radiation. The pattern of illness was much the same in most cases. A short time after receiving the radiation a feeling of general sickness and vomiting came on and there was often diarrhoea as well. These symptoms lasted a variable time and then subsided.

From the second to the fourth week, however, new symptoms occurred. The hair commenced to fall. The skin bruised easily and there were also haemorrhages into the mucous membrane of the mouth and bleeding from the gums. Fever and loss of appetite often followed.

Along with this general deterioration there was a progressive fall in the number of white cells. The patient became very anaemic and the blood changes were such that he could not combat infection so that an inter-current disease at this stage often proved fatal. Recovery is possible in

severe cases, but very many died from this dreaded radiation sickness.

Dosages sufficient to produce the above symptoms, i.e., about 500 r would be expected at distances up to 1,300 yards from the centre of the explosion.

At greater distances the exposure would be, of course, less. A dose of 175-200 r would be likely to produce similar but less severe symptoms. The same gastro intestinal symptoms would probably appear but in a milder form and the anaemia would be of a more temporary nature. A dosage of 50 r would be expected to produce little or no illness.

The explanation of these symptoms is that certain tissues of the body are particularly susceptible to radiation. The cells of the stomach and intestine are especially so. They react quickly with the characteristic symptoms referred to above.

Similar symptoms of nausea and vomiting are noted in people who receive heavy doses of X-rays in the treatment of cancer and particularly is this so if the cancer is so placed that to irradiate it, the beam of rays has to be directed onto the abdomen.

Another tissue very sensitive to radiation is the bone marrow which is responsible for the formation of the blood cells. Its cells are readily killed or injured by radiation and so the number of red and white cells in the blood falls.

In an atomic explosion there are effects other than the immediate ones, and one such was observed in the Marshall Islands following an atomic explosion. From this there was a radioactive "fall out" the exact nature of which is not specified. It emitted beta radiation and came down in sufficient quantities to cause it to be likened to snow. The islanders received a dose estimated 175 r. No deaths occurred but most of those contaminated were mildly affected by sickness and diarrhoea. There was some fall in the number of red cells of the blood and

peeling of the skin with ulceration in some cases. All finally recovered.

The long term results of radiation from an atomic explosion are less certain, but on statistical grounds there is reason to believe that there has been an increase in the incidence of leukaemia in Nagasaki and Hiroshima.

We have little information as to the genetic effects of the large whole body-doses of radiation. There are, however, records of eleven mentally retarded children in Nagasaki and Hiroshima whose mothers suffered from the effects of radiation. All these children have smaller head measurements than normal. It is difficult to suggest that children whose mothers have suffered excessive radiation between the twelfth and eighteenth week of pregnancy are more likely to develop microcephaly (literally small head and maldevelopment of the skull and brain) than those irradiated at other times.

This brings us to the end of all we have to say about the atomic explosions which devastated these two Japanese cities, but it by no means covers all that could be said. Many publications have appeared on the subject. Never before have so many people been subjected to such massive irradiation and investigations are still going on and probably will continue for years to come.

Large body doses of radiation do not only happen when atomic weapons are used. From time to time accidents happen to those working with nuclear reactors and large body doses of radiation occur. The type of radiation is somewhat different but the resulting illness is similar.

There is some evidence that the transplanting of fresh marrow into those affected by heavy radiation may halt the anaemia which is so often fatal.

Let's Laugh

A cross-eyed rooster was chasing two hens. One said to the other: "Let's separate or he'll miss us both."

—*—

After a very trying day at the office, the husband was enjoying his pipe and reading the evening paper. His wife, who was working on a crossword puzzle, suddenly called out, "John, what is a female sheep?"

"Ewe," replied her husband. And that's how the fight began.

—*—

City dude: What a peculiar cow. Why doesn't it have horns?

Farmer: There could be several reasons. Some cows get horns late in life, others are dehorned, while still others never get horns. This particular cow doesn't have horns because it is a horse.

John rang the doorbell of a stranger's home and when the lady of the house opened the door, he said apologetically: "I'm sorry, I just ran over your cat and I'd like to replace it."

"Well, get busy," she snapped. "There's a mouse in the pantry."

—*—

Husband: It says here that over 5,000 camels are used each year to make paint brushes.

Wife: Isn't it amazing what they can teach animals to do these days.

—*—

"My boy, when I was your age, I carried for a gang of bricklayers."

"Gee, Dad, I'm mighty proud of you. If it hadn't been for your pluck and perseverance, I might have to do something like that myself."

Personal Pairs

Heard on the Grapevine

BERRIMA

To Mr. and Mrs. Tommy Young, a daughter, Patricia Lynette, on Friday, 22nd June. The new arrival weighed 6lb. 13ozs. Congratulations Tommy and Mrs. Young!

—

Zen Beer, fitter and keen fisherman, after 8½ years with the Company, has volunteered to take over a new garage business with son John. Well, best of luck, Zen, and we hear that you are soon to become a grandfather again. Congratulations!

—

The B.H.P. (Sydney) Social Club was host at the Bowral Golf Club during the month for one of its annual outings. S.P.C. was invited to enter a team, which it did, the team consisting of John McNicol, Mrs. Mitchell, Jim Mitchell, Sam Mitchell, Bert McIntosh, Mark Hauber, Mrs. Marshall and Ernie Radnidge in that order of pairs. The match was a 4 ball best ball handicap event and the visitors, S.P.C., bobbed up to win on a countback! Mrs. Marshall and Ernie contributed much towards this win by returning excellent cards.

—

John Medland became a grandfather during the month when daughter Helen and hubby became the proud parents of a daughter, Linda Jane, at Berrima District Hospital on Saturday, 16th June. Congratulations Helen!

—

Barry Whatman (Lab.) and Miss Wendy Gorham, of Moss Vale, announced their engagement on Saturday, June 16th. Congratulations Wendy and Barry!

Bill Saker, together with son Terry and Bobby Friend, are at present out West on one of Bill's annual kangaroo hunts. Bobby has been a partner in these trips for many years and they plan to stay in the area for about two weeks.

—

Mel Toomey (Elect.) won the George Cater shoot at the Werriwa Rifle Club's last meeting of the 1961-62 year on June 24. Last Xmas, Mel was selected to accompany the Australian Goodwill Team to New Zealand for a fortnight's shooting and entertainment by members of the New Zealand clubs. The Werriwa Club plans to extend its activities for the coming year and anybody wishing to join can contact the Captain, M. Hauber.

Obituary

The Newsletter regrets to report the tragic death of Frank Brice, a former Euclid driver at Marulan, who was killed whilst dumping mullock during the early hours of June 14.

Frank leaves a widow and five children, three of whom are still attending primary school. Two of the boys are now working away from home.

We wish to extend our deepest sympathy and condolence to Mrs. Brice and her family.

MEDWAY

Lew Wilson, Mine Electrician, has been successful in passing his examinations at the University of N.S.W. Lew, together with his wife and one child, came to this district in November, 1961, from Cessnock where he had worked in mines since leaving school. He is a keen football fan and was a former player for Cessnock. Congrats. Lew!



Lew Wilson

—

Other colliery members recently participating in a form of examination were G. R. Smith and R. Lewis, who were successful in obtaining their First Aid Certificates.

—

Len Hole arrived home on Friday, 27th June, following an operation at a Sydney Hospital. Best wishes Len for a speedy recovery.

SYDNEY OFFICE

Big things are happening in Sydney Office at present with the take-over of sales from Cement Distributors and with the appointing of our own sales representatives.

On Monday, 2nd July, our staff numbers were enhanced by the addition of four new — or almost new — faces.

The first face is not quite new, because most of us know Max Barnett, who for many years has looked after our sales in his capacity of Cement Sales Manager with Cement Distributors.

The really new S.P.C.-ites are our sales representatives, John Dibbs, Len Newman and Bruce Vance.

John and Bruce, who both live in Sydney, will be mainly concerned with Sydney Metropolitan Representation, while Len, who lives at Wagga, will operate in the southern area of the State.

By this time the new faces may be well known throughout the company as their month's Training Course includes at least one week at Berrima.

In anticipation of our new sales arrangement, we also have a new face on the office side.

Ken Wells — another young contender for the Mr. S.P.C. title — commenced with us on 7th June. Ken originally comes from Corowa.

No doubt now he has left Corowa the average height of the population has decreased considerably. At the same time we are thinking of raising our ceiling heights in Sydney Office. No offence, Ken, we all like tall men here.

We extend a welcome to all the newcomers and hope their association with us will be a happy one.

MARULAN

Stores assistant Paddy Byrne is spending his holidays with his wife on a car tour of Southern Queensland.

—

Marulan Oddfellows' Lodge delegates to the recent annual district conference at Crookwell included Tony Cosgrove, Jim Galloway, Myles Creswick, Noel Steffensen and Cliff Shepherd. Jim Galloway was elected a trustee of Lodge Southern Cross and Cliff Shepherd District Grand Master.

Assistant Maintenance Foreman Keith Graham is settling into his new job under the careful eye of Tony Cosgrove. Keith is batching for a couple of months until a cottage becomes vacant at Marulan South. He will then move his wife and four children from Moss Vale.

—

Shovel Driver Angus Murphy is showing improvement following the recurrence of an old back injury.

—

Marulan South Schoolteacher, Alf Diemer, has resumed duty after an illness lasting several weeks.

Congratulations to Eddie and Betty Read on their recent marriage. Eddie is a fitter at the Quarry and Betty was Sister Potter at Goulburn Base Hospital.

We also wish Leo and Mrs. Baeck well after their marriage in June.

—

Mr. Mick Cosgrove is progressing favourably in hospital after a severe illness.

—

Mrs. McMurtrie, wife of Shift Foreman, Alex, is enjoying better health since she returned from her recent holiday trip to Rockhampton. They stayed with Alec's mother while in the north.

Gardening Notes

By. Mrs. C. Crowe



JULY

FLOWERS:

Sow: Alyssum, Antirrhinum, Hollyhock, Linaria, Lupin, Nemophila, Sweet Pea.

Plant: Roses, Evergreen and Deciduous Shrubs and Trees, including Flowering Fruit Trees, Gladiolus, Tuberoses, Japanese Iris, Climbing Plants.

VEGETABLES:

Sow: Broad Beans, Carrot, Onion, Parsnip, Peas, Parsley, Spinach, White Turnip, Cabbage, Kohl Rabi, Cress, Lettuce.

Plant: Asparagus, Rhubarb, Eschallots, Garlic, also Deciduous Fruit Trees such as Peach, Apricot, Apple, Pear, etc., together with Currants, Gooseberries, Raspberries, etc.

Early flowering Fruit Trees such as Flowering Apricots and some Flowering Cherries are coming into bloom and Jonquils and Snowflakes are out, so we can look forward to warmer weather soon.

Dig up, separate and replant any perennial plants which have become overcrowded, during this month.

Prune Fruit Trees and give them a Winter spray of Bordeaux mixture, to

help control fungous diseases which appeared during last Summer and Autumn. Remove all "Mummified fruit" before spraying. This term refers to any fruit on the tree, which has shrivelled up, and is still hanging on the tree. Roses can be pruned towards the end of this month. The object of pruning is to encourage the plant to make young, healthy growth.

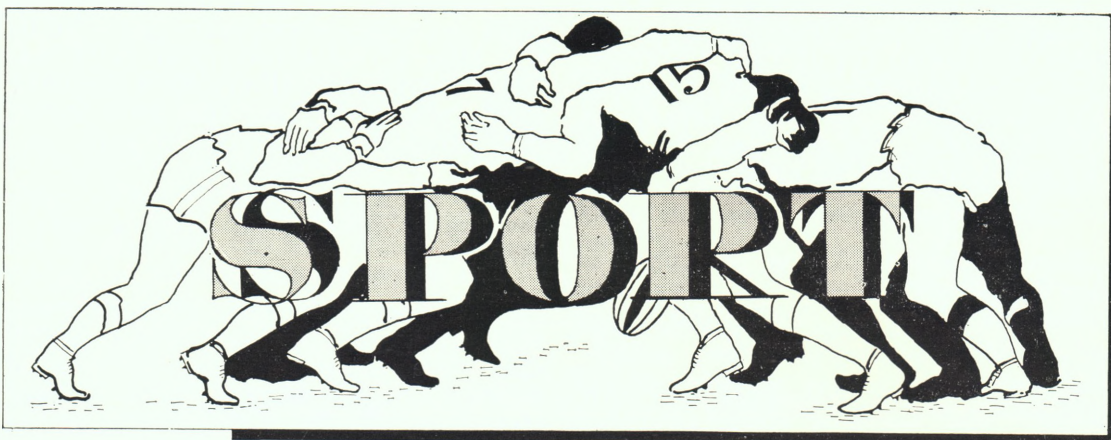
Remove all die-back or diseased wood and burn, and sterilise the secateurs frequently, whilst pruning.

Hydrangeas should also be pruned this month, taking out some of the old wood and cutting the new wood back to healthy buds.

Winter digging and cleaning up in the Vegetable Garden should be finished this month.

At this time of the year we treasure our little splashes of colour in the garden, a few violets here in flower, and a dwarf heath or two somewhere else, and in a sheltered corner, away from morning sun, one or two treasured camellia blooms.

The Hellebores too, or Christmas Roses, as they are called, are once again in flower. These like cool, shady conditions. Keep these winter flowers in mind when planning additions to your garden.



FOOTBALL

Berrima is suffering a bad run of injuries which is causing the selectors much concern. The old stayputs are back in training and have showed their willingness to help out. Don Garbutt, who has been playing in the forwards, was moved to the wing against Thirlmere and suffered a broken collarbone when he was knocked into touch inches from the line. A. Day, playing his first game of the season with the red and greens against Moss Vale, broke a small bone in his hand. M. Ware, the hard tackling winger, had a spell in the Moss Vale Hospital with an injured knee after the Moss Vale game. R. Dickson had the misfortune to break his ankle in the last minutes of play against Picton. Although Berrima is running last in the competition, it is hoping for a change of luck in the second round, which is surely not beyond them.

Berrima v. Thirlmere

Berrima started off at a fast pace and played all over Thirlmere, going to a 21-9 lead. In the second half Berrima, with D. Garbutt on the way to hospital, W. Mangold having an early shower, P. Taylor, T. Mott, R. Curtin and D. Mexted suffering bad injuries, but refusing to leave the field, Thirlmere took advantage of unfit players and went on to win 22-21.

Berrima v. Moss Vale

Moss Vale, with the first grade having a bye, took the advantage by

putting in several of their first grade players in the second grade fixture against Berrima. Although Moss Vale state that there were only two first graders, I am sure that a few more of them were dropped to second grade for the first time this season. Moss Vale won the match 36 points to nil.

Berrima v. Picton

Once again we saw the leaders battling hard to score points against Berrima. Although Picton won 23-8 it was a very hard and fast game, marred only by injuries to two of Picton and R. Dickson of Berrima.

The Best and Fairest points awards so far this season are as follows:—

T. Mott 10, P. Taylor 7, H. Stephens, C. Moore and R. Curtin on 5, B. Moore 4, J. Moore, D. Garbutt and M. Ware on 3, G. Goodfellow 2, and D. Mexted on 1.

BOWLS

The Moss Vale Trophy over the years has produced some thrilling finishes, but none could measure up to the finish of the game in which our electrician, Sam Fleeton, was skipper — 25 ends played and all square, one bowl remained to be played, that belonging to Sam and Sam was 2 down. Now, if I just say the bowl took off in the wrong direction that will be sufficient, wouldn't it? Except to say "that Sam took off" in the opposite direction, his three mates in hot pursuit! Wouldn't Sam!

Our No. 1 pot hunter, Mrs. Galloway, was again in the money, collecting the Runner-up Trophy at Moss Vale on Sunday, 17th June. Just as well you can do it, Mrs. G., because Sandy doesn't look like winning.

Sunday, 24th, was mixed day at Bundanoon and Jack Brown, Mrs. Brown, Sandy and Mrs. Galloway were there in force. This time Jack Brown landed something for the sideboard.

Also on Sunday, 24th, our District played the Illawarra District at Mittagong and we had two S.P.C. reps., John Fuller and Al Counsell. John skipped our four against inter-state player Bob Grevi's four. Our district was beaten by a margin of 20 points.

Some clubs are lucky in that they have members who can always be relied upon to make up the numbers when there is an "away" match. Moss Vale are lucky to have one of our S.P.C.-ites who fits into that category, young Tommy Penfold.

One of our electricians Ken Mott heard that he had to be 21 to join a club. Well! right or wrong, how is this for timing? He turned 21 during the week, was accepted as a member on the Thursday night and played his

first game on the Sunday. If he's as keen as his father he'll be there every Sunday.

Charlie Wheeler and George Pribyl of the General Office are all set to give Moss Vale pairs champs a shake; they've entered for the club championships. Keep your head down Geo and who knows, you might even have your photo in the mag. showing the correct stance.


MARULAN

Ray and Don McCallum are still showing outstanding form road racing. In the N.S.W. Schoolboy Championships, the results included: 5 miles junior section (under 14), D. McCallum 1st; 5 miles novice section (under 16), R. McCallum 1st. At a later meeting at Shellharbour, Ray shared with two Goulburn lads most of the honours.

HOCKEY

Marulan Waratah Women's Hockey Team is so far undefeated this season. Marulan South players are Denise Cosgrove, Nola Cosgrove, Mr. O. Bell and Lorraine Bell. The men's team has shown great promise, but not enough to win a match.

More Laughs

 Policeman: How did you knock him down?

Motorist: I didn't. I pulled up to let him go across and he fainted.

—*—

An oiler's new bride was showing a friend the kitchen of her new, seven-room house.

"We furnished the kitchen with soap coupons," the bride said.

"With soap coupons!" the friend exclaimed. "What about the other six rooms?"

"Oh, those," the bride replied, "they're filled with soap."

The big contractor was showing his daughter, just returned from finishing school, around the newly completed mansion. At the swimming pool they stopped to watch several athletic young men diving and stunting.

"Oh, Daddy," exclaimed the girl, "you've stocked it just for me!"

—*—

Young Man: "Is this ice cream pure?"

Walter: "As pure as the girl of your dreams."

Young Man: "I'll take a beer."

Fishing Notes

In last issue I made a promise to pass the good oil on regarding the usefulness of plastic worms. Well, to tell you the truth, although I gave the lures a try, I still can't give a decision, because nothing much was landed on bait either. A crab nipped a piece out of the worm's tails, if that's any indication. Every time I view the lures they seem so realistic!

Anyhow, we did land two bream off the beach, one at 1½ lb. and the other 3½ lbs. (on prawns). The fun of the evening was landing a gummy shark on a No. 10 line with small bream hook! I didn't weigh it, but it would go 25 or 30 lbs. It took about 30 minutes to pull it out of the surf. For anyone who has the patience to skin it, the shark cuts very good meat, and eats well.

Just about now should be all right for big bream on the beaches at Comerong or Shoalhaven Heads, at night on prawn or pipi. I've been patronising Shoalhaven Heads lately, because its a tarred road all the way (through Berry — only two miles longer) and easy to get the van down there. Plenty of pipis on the beach to the north, and loads of yabbies on the sand flats between the heads and Jerry Bailey. The caravan park at the entrance is very good now with all mod. cons. There is plenty of shelter for tents.

I still feel there is a big jewie in the Shoalhaven. Now is a good time to have a try. If I had my preference I would dangle a floating bait from a boat at night. Keep an eye on the tide though, you might be towed out to sea! Incidentally the bird life at Shoalhaven Heads is colossal. A local was telling me quite a number of bird fanciers patronise the area.

The A.I.S. Pty. Ltd.'s 1962 Blackfish Competition held on 1st July showed

a marked improvement over previous years.

At the weighing-in station some very nice bags were recorded and the winner's bag tipped the scales at 27 lb. 10 ozs., which gave him an easy win in Section 2 — the heaviest bag of fish for the day.

In Section 1 — heaviest fish for the day — a fine nigger weighing 7 lb. 7 ozs. took out the 1st prize with a 2 lb. 3 oz. fish winning second place.

Publicity officer at the Port, Mr. Owen, wants greater participation next year by S.P.C.-ites. He's apparently heard about our G.M.'s new rod and insists that he try it out next year on the niggers.

More Laughs

"They had to shoot poor Fido to-day."

"Was he mad?"

"He wasn't any too pleased."

—*—

Dear Ann: "Should a father of 5 get married again?"

Dear Dad: "No, that's enough children for any man!"

—*—

Parson Jackson called up the local board of health with a complaint.

"This is Parson Jackson and there's been a dead mule in front of my house for two days."

The man at the board of health office thought he'd be smart: "I thought you ministers took care of the dead."

"We do," said Parson Jackson, "but first we get in touch with their relatives."

N.R.M.A. Motoring News

Windscreen Breakage Problem

Breakage of motor vehicle wind-screens on the road is becoming an increasing problem which, in the N.R.M.A.'s opinion, calls for closer attention by both motorists and car manufacturers, especially in view of the high costs of replacement on late model cars.

N.R.M.A. Insurance Ltd. records show that the average cost of replacing a windscreen approximates £23. Claims for replacement total 2,000 per annum, bringing the total cost involved to about £46,000.

Main cause of damage is high speeds indulged in on roads on which gravel or small metal is thrown up by the wheels of passing vehicles.

The Association feels, however, that windscreen design, quality and fitting play a considerable part in the problem.

It will approach manufacturers urging standardisation of type of wind-screen in future production, greater emphasis on quality, and more efficient fitting.

The manufacture of windscreens has undergone changes. Early cars used ordinary plate glass. It constituted a major hazard in collisions and the incidence of persons fatally injured due to cuts by glass was very high.

The late twenties saw the introduction of "safety glass", which in effect was a sandwich of two thin sheets of glass with a soft plastic interlay bonded to the glass. However, exposure to sunlight caused the plastic to discolour and reduce visibility.

During the thirties case-hardened or "armour-plate" glass was evolved. This is a glass of extremely high tensile strength which will not fragment or cause severe injury by cuts. But it crystallises over the entire surface once the outer skin has been penetrated by a flying stone or other sharp object. Should this occur, it is vital that the

driver have visibility restored as soon as possible.

Often a crystallised windscreen will drop out entirely, in small particles. If this has not occurred, the damaged glass should be pushed outward or even punched with the fist. It will not be difficult to fragment it. There is little fear of injury, as the glass becomes granulated and will not inflict a serious cut, but it would be wise perhaps to cover the hand with cloth.

With the protection of the windscreen gone, the vehicle should be driven slowly to a service station where replacement can be made. Greatest comfort in those conditions would be secured by keeping all car windows closed. However, drivers should watch out for more gravel from passing vehicles.

The full wrap-around screen appears to be going out of favour. So far as the breakage problem is concerned, the N.R.M.A. considers that this is all to the good, because it is the Association's experience that straight screens are less susceptible to breaking than others.

STARTING HINT

Sometimes an engine becomes hard to start through flooding of the carburettor or inadvertently "pumping" the accelerator.

N.R.M.A. Engineers say that any attempt to start the engine under these circumstances by operating the starter and jiggling the accelerator will only make matters worse. To achieve the most favourable conditions for starting, proceed as follows: Press accelerator hard down to the floor, switch on ignition and operate starter without altering the position of the accelerator. After a few seconds the engine will commence to fire. Keep the accelerator hard down until the engine commences to fire, then slowly close it.

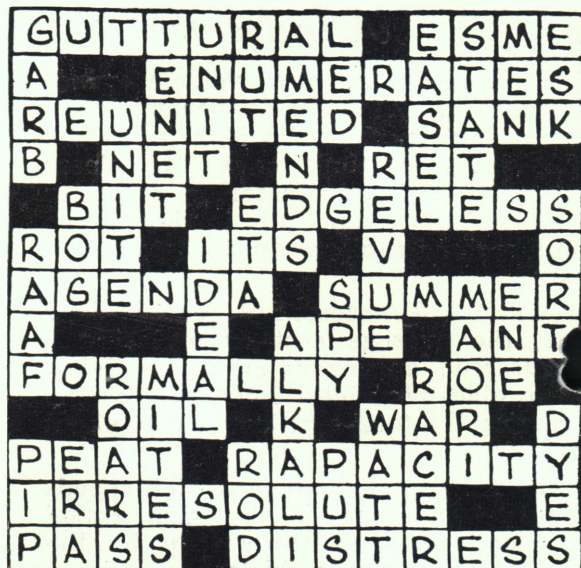
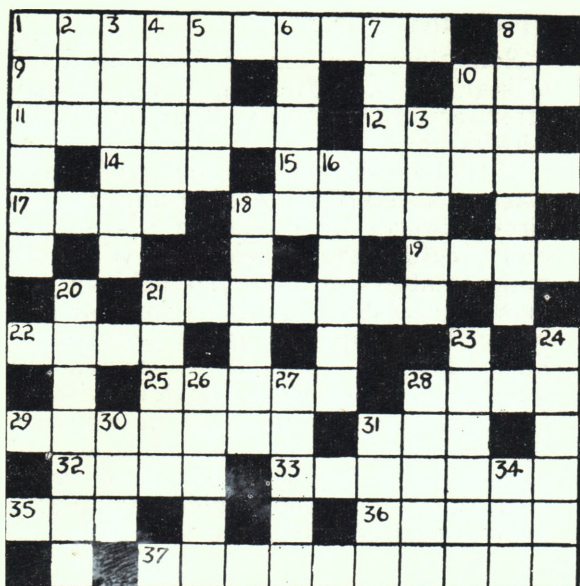
— Problem Page —

Result of Problem No. 40 is shown at right and despite the fact that an error slipped through in the printing, eight correct entries were received. Lucky one out of the hat was Kevin Mulready, of Berrima. Congratulations!

PROBLEM No. 41

Across:

1. Third copy
9. Type of moon
10. Crooked
11. Delays
12. Biblical character
14. Drink
15. Passage
17. Requests
18. Stage whisper
19. Trees
21. Succeed
22. Healthy
25. Lewis Carroll character
28. Head of a college
29. Boat
31. Beat
32. Prescribed food
33. Daily
35. Vim
36. Colour
37. Intruder



Down:

1. Menace
2. Fish spawn
3. Drawing in
4. Chimes
5. Old instrument
6. Charges
7. Step
8. Self-evident truths
10. Part of "to be"
13. Show contempt
16. Slight movement
18. Type of energy
20. Resolved
21. Carpenter's tool
23. Sport
24. Fisherman
26. More tardy
27. Yields
28. Ventures
30. Pinch
31. Trumpet-like instrument
34. Grow old

PS

SPC

Vol. 4, No. 8

AUGUST, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

General Manager's Notes

During July the Marulan Limestone Quarry went into top gear with the result that the daily limestone production record was broken twice, also a new shift record was established.

The best daily tonnage was 6,984 tons of limestone and 2,014 tons of mullock giving a gross tonnage of material for the day of 8,998 tons.

This was a very meritorious effort and our congratulations are extended to the Quarry personnel.

At the July meeting of the Board of Directors the purchase of a new Euclid truck was authorised. This new unit, to be delivered in November, will be a Euclid model B2TD of 27 tons capacity which compares with the existing Euclid model B1TD's of 20 tons capacity.

This new unit should enable more economical haulage of limestone and overburden.

S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.

Vol. 4, No. 8.

AUGUST, 1962

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Problem Page	Back Cover

EDITOR

M. D. Hauber

PRINTERS

Southern Highland News
Bowral

ALL CORRESPONDENCE AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

COPY DEADLINE

1st of the Month

— Departmental Representatives —

S.P.C. BERRIMA R. GREAVES
L. HUMPHRIES

MARULAN QUARRY A. GUTZKE
R. CRESWICK

MEDWAY COLLIERY R. JONES

SYDNEY OFFICE Miss J. LILLYMAN

— Contributions —

GARDENING NOTES Mrs. C. CROWE
Berrima

— Editorial —

Dear Readers,

Philosophy is not one of my brightest subjects and is not one which I intend to pursue here.

However, in contemplating certain facts there arises the everlasting question — what is going to happen?

I refer to world population — a subject we tend to forget in our own small circle.

How many people live on this earth?

Experts in all countries around the globe prepared for the answer to this question when the second world census was commenced in 1960.

The first world census took place in 1950 and this undertaking across all latitudes and longitudes of the earth was hardly noticed at the time by the general public. But four years later when the results were published, the news almost took away the breath not only of the laymen and the politician but also of the experts. Before World War II and shortly after, scientists computed from available data and estimates, that the population of the earth would be doubled in approximately 100 years. After the first world census it was, however, suddenly realized that this enormous population would be reached as early as in the year 2000.

In the light of what has been done so far in the second world census the figures are even more staggering.

Let's have a look at these figures.

In 1900 the world population was about $1\frac{1}{2}$ billion, in 1925 almost two billion, in 1950 about $2\frac{1}{2}$ billion, but by 1975 it will be almost four billion and by 2000 a staggering six-seven billion.

This is a fantastic increase.

The population of the world as a whole is increasing at the rate of 1.7 per cent. a year. But in terms of numbers of people, Asia in general and China in particular are moving ahead at a rate that is expected to bring Asia's total population to a point just about double that of the rest of the world by the year 2000.

Again let's look at some impressive figures for the most populous nations. China, in 1960 had a population of 650 million — by 2000 it will be 1.6 billion. India in 1960 had 390 million, in 2000 will have 1.0 billion. Soviet Union, 1960 had 200 million — in 2000 will have 380 million. U.S.A. in 1960 had 170 million, in 2000 will have 280 million. Pakistan in 1960 had 80 million, in 2000 will have 230 million. Indonesia in 1960 had 79 million, in 2000 will have 220 million. Japan in 1960 had 80 million, in 2000 will have 150 million.

Compare these figures with Oceania's paltry 16 million at present.

Well, I'll leave you to ponder the subject and if anyone cares to write an article on the future, the Newsletter will be happy to publish it.

Until next issue,

Yours,

The Editor.

A Timetable of Rocket Engineering

Even the ancients knew that recoil energy could be applied to generate motion. In 62 A.D., Heron of Alexandria set up a rotatably suspended spherical chamber provided with steam jets that was whirled around by escaping steam. In the 12th and 13th centuries, experiments were made with gun-powder charged rockets in China and Arabia. Suggestions for rockets were repeatedly brought forward. In 1687 Sir Isaac Newton came forward with the theoretical basis of the recoil principle with his law that "reaction is equal (in power) but opposite (in direction) to action." He also suggested a steam reaction car. In 1730, Daniel Bernoulli (1700-1782) began the application of reaction force in hydro-dynamics. His studies laid the foundation for the hydraulic reaction turbine.

- 1928—First official drive of a rocket-propelled car. Built by Max Valier and Fritz v. Opel. June 11, a glider driven by a powder rocket for the first time, after starting off with a rubber cable.
- 1929—The first practical application of powder starting rockets on a Junkers hydroplane on the Elbe River. September 30th, the first official flight with a self-starting plane, by rocket propulsion.
- 1930—The Valier-Heylandt-Rak 7, the first rocket-propelled car driven by liquid oxygen.
- 1939—Start of a rocket-propelled plane at the Peanemunde test-grounds, powered by liquid rocket fuel.
- 1941—On May 10, the first flight of a rocket-propelled tailless Messerschmitt ME 163 plane with skids. Plane had been launched in the air by a Me 210.
- 1942—On October 3rd, the first successful launching of a V2 rocket, from Peanemunde. Reaches a height of 90 km (56 miles), distance travelled 192 km (119

miles). Designers: Dr. Dornberger and Prof. Wernher v. Braun.

- 1944—On December 22, the first start of a manned rocket the "Bachem-Natter" BP 20; this rocket is launched vertically and has small steering wings.
- 1946—In the U.S.A., a V2 rocket attains a height of 183 km (113 miles).
- 1947—In November, the XS1, an American test rocket-propelled plane of the Bell Aircraft Corp., flies at supersonic speed.
- 1949—The first two-stage rocket, composed of an A-4 (V2) rocket rebuilt in the U.S.A. and a WAC-Corporal rocket, soars to an altitude of 400 km (250 miles) on February 24.
- 1957—Sputnik 1, the first man-made satellite goes into orbit on October 4. Greatest distance from the earth (the apogee) of the 83.6 kg (184 lbs.) instrument head of the rocket is 946 km (590 miles).
Sputnik 2 with the dog "Laika" on board goes into orbit on November 3, as the second earth satellite. At a distance of 1,670 km (1,045 miles) from the earth, the first living creature soars through space at a speed of 24,200 km/hr. (15,000 m.p.hr.). Sputnik 2 already weighs 508 kg (1,117 lbs.).
- 1958—On January 31, the U.S. puts its first satellite, the Explorer I, into orbit. Apogee 2,530 km (1,580 miles). Estimated to stay in orbit from 3 to 5 years. Weight 8.2 kg (18 lbs.).
On March 17, the U.S.A. succeeded in launching its satellite Vanguard I. The soccerball sized satellite weighs only 1.48 kg (3¼ lbs.) but is estimated to remain in orbit for 1,000 years.

On May 15, the Russians successfully launch Sputnik 3, a space missile weighing 1,327 kg (2,920 lbs.) with 11 different types of instruments on board.

U.S. Explorer 4 launched into space on July 27, to revolve about the earth for about one year.

On October 11, a U.S. Pioneer I rocket travels 114,000 km (over 70,000 miles) into space. It transmitted valuable measuring data. A day later, it fell back into the gravitational sphere of the earth and burnt up.

On December 6 and 7, the U.S. rocket Pioneer 3 is shot 102,320 km (64,000 miles) into space and discovers an outer zone of radiation around the earth, the Van Allen belt of radiation.

The Atlas-Score, a 68 kg (150 lbs.) U.S. satellite launched into space on December 18 and transmits a message from President Eisenhower from outer space.

1959—The Soviet moon rocket Lunik 1 misses the moon and shoots out into the void, to become the first man-made planet in the solar system. The 361 kg (790 lbs.) missile will revolve about the sun indefinitely taking 15 months to complete its orbit, at a distance of 146,400,000 km (91,500,000 miles).

On Feb. 17, the U.S. shoots up the satellite Vanguard 2 with meteorological instruments on board (infrared photoelectric cells for scanning the clouds).

The Pioneer 4, the U.S. moon rocket suffers the same fate as the Russian Lunik 1. It misses the moon and becomes an everlasting satellite of the sun. Distance from sun 147,600,000 km (92,150,000 miles).

On September 13, the Soviet moon rocket Lunik 2 reaches the moon at 22:02 hours. For the first time, a man-made missile has reached a neighbouring planet of the earth. The point of impact is near the "Sea of Sorrow". The distance from earth to moon during flight was 379,000 km (230,000 miles). The sterilized last stage of the rocket weighed 390 kg (858 lbs.) and bears emblems of the Soviet Union.

1961—Was by far the most eventful of the first four years of the space age, because for the first time man himself penetrated the layer of atmosphere surrounding his planet.

The first manned flight took place on April 12th, when Soviet cosmonaut Yuri Gagarin, a Red Air Force major, completed a single orbit of the earth in 89.1 minutes at a speed of approx. 18,000 mph and at a height of 113 miles.

On May 5th, astronaut Alan B. Shepherd, a Navy Officer, made the first U.S. space flight in a Mercury spacecraft named Friendship 7. Shepherd reached a peak altitude of 116.5 miles during his flight, which lasted 15 min. 22 secs. at a max. velocity of 5,180 mph.

On July 21st, the second American astronaut, Virgil Grissom, entered space on a similar flight which lasted 15.37 min. to a peak altitude of 118 miles.

On August 6, the last manned spaceflight of the year took place in the Soviet Union. It was by far the most spectacular of the manned-flight series.

On this flight, cosmonaut Major Gherman Titov made 17 earth orbits in the spacecraft Vostok II, remaining aloft more than 25 hours.

The Morality of Safety

It can be demonstrated that there are moral implications in this business of safety in industry.

An example or two may help us see this. Let's look at Joe Blow. He's a nice guy, pays his dues regularly, never beats his kids (except in self-defence) and never fights with the wife.

So we call Joe an average man. Watch now as Joe becomes a threat to himself and you. His boy falls and breaks his arm. His teenage daughter is picked up by juvenile authorities. His mother-in-law shows up for a short visit (just a year or two). Last night, Jane Blow blew her top about the budget. Why doesn't he quit and get a decent job?

This erosion of the soul is insidious. He feels inadequate, inferior, anxious. Finally, he gets angry. As a fellow worker, you notice he's sour, jumpy, and won't speak. At this point, Joe is an accident on its way to happen.

He makes a careless mistake and the resulting accident injures both Joe and his partner. There goes the record. The pay cheque suffers. The family suffers.

As you might expect, there's a moral to it: He who is wrapped up in himself gets wrapped. And so do those around him.

Each of us can say, "As long as what I do does not injure another person, it's OK for me to do it."

Come now! Do you really believe that? The person in industry who is carrying a grudge (against someone outside the plant) is downright danger-

ous. He can yell his fool head off that such things are his business only. But he's wrong!

This same joker can say he doesn't hurt those working on both sides of him. He may be right. However, morality cuts both ways in an accident. If I fail my job, refuse to be responsible for myself, I need to face the fact that I've decided I can be careless about myself. This is just not so!

I don't have the right to make a mess out of my hand in a belt or to smash my foot under a piece of timber. Why? Because it affects others, whether I like it or not.

So we would say that morality is not just preacher stuff, nor is it a simple business of good manners. Truth is, a moral man or woman happens to be a person who is growing up. It takes some degree of maturing to be safe.

Next, a moral man or woman is a responsible person. You recognise you can't live alone — on the job or in the matter of safety. If I would ever want to suggest a prayer, it would be, "God deliver us from being immature and irresponsible."

Really now, would you like to have an angry, anxious, fearful man working next to you?

All we are saying is that a mature and responsible person is safety-prone. I'm sure you figure your life lasts longer if you can depend on the fellow working on either side of you.

Fine! We want the other guy to be moral.

Be careful, though. Don't be a parasite.

The final proposition is simple to figure out. Can you say that you are a moral person? Regardless or in spite of what the other person does?

Probably not in the ideal sense. No one is or can be. You don't have to be perfect for safety in a cement plant.

But, you are always trying to improve, to be more careful, to be more thoughtful. You start where you are. You improve your human relations. You grow, not in terms of someone else, but in terms of yourself. Do the best with what you have.

Civil Defence Organisation

A FURTHER SERIES IN OUR TRAINING PROGRAMME

Biological Warfare

OBJECT

To consider the problems of biological warfare and the broad principles of defence against biological agents.

INTRODUCTION

Past history has shown that germs have played on occasions an important part in war.

Plague infested the Crusaders, dysentery and typhus changed Napoleon's plans for the invasion of India. Typhoid germs killed more men than bullets did in the South African war and in the recent Burma campaign the Allied Commander deliberately sought battle in malaria stricken areas knowing that the Japs were untrained in anti-malaria measures.

DEFINITION OF BIOLOGICAL WARFARE

Biological warfare is the employment of living organisms or their products to cause death, disability or damage to the people, to the domestic and stock animals or to the crops of an enemy country. The living organisms may be bacteria, viruses or fungi which cause disease or they may be insect pests or parasites which prey on crops.

GROUPING OF BIOLOGICAL AGENTS

The number of organisms that may produce or carry disease is very large but for various reasons which will be discussed later those which could be used in B.W. are probably very few. They fall roughly into two groups—

a. Micro-organisms which are invisible to the naked eye and which may be divided into bacteria, fungi and viruses.

b. Insects and similar pests. These may be used either directly, e.g., to attack food and plants, or indirectly as carriers of disease as, for instance, the body louse may carry typhus or the anopheles mosquito, malaria. The use of insect and similar organisms is unlikely save possibly as a sabotage weapon on a small scale and although it is included to complete the picture it is not thought to constitute a serious danger and will not here be considered further.

CHARACTERISTICS OF POTENTIAL B.W. AGENTS

B.W. agents which might be used in quantity against this country are all micro-organisms and all possess three features in common—

- a. They are invisible to the naked eye.
- b. Under congenial conditions they can multiply rapidly and in consequence originally small numbers of organisms may, under such conditions, soon constitute a grave risk to health, and, perhaps, to life.
- c. There is an incubation period, while the organisms multiply, which may last from a few hours to several days. During this period there is no visible indication of their presence.

REQUIREMENTS OF B.W. AGENTS

The suitability of any particular organism as a B.W. agent depends on many factors. The principal of these are:—

a. Virulence — the organism must have a high capacity to produce infection so that small doses will be effective.

- b. Power to produce disability — the organism must be capable of producing a disease such that there is a high risk of the victim either being killed or incapacitated for some time. The onset of the disease should not be unduly delayed. Agents designed to attack crops must cause considerable damage to justify their use.
- c. Suitability — the organisms must be able to withstand destructive forces and at the same time retain their virulence.
- d. Means of transmission — B.W. agents which are capable of transmission as airborne clouds and which are ineffective when breathed are more likely to be used than, for instance, those requiring injection into the body tissues.
- e. Availability — organisms must be capable of production in bulk. This requirement may be very difficult to meet.
- f. Resistance of the population — a B.W. agent should be such that the attacked population possesses little or no immunity against it.

LIMITING FACTORS IN B.W. AGENTS

If the organism is to have any chance of being effective, it must be alive when it arrives at a suitable place for development. Because bacteria are living organisms, they are susceptible in varying degrees to destruction by a variety of means. Such are:—

- (a) Heat—it is well known that water suspected of being contaminated should always be boiled before drinking and that by the process of pasteurisation the pathogens likely to occur in milk can be killed by raising it to a temperature of 160 degrees Fahrenheit for 15 seconds. There are, however, varieties of spore-bearing bacteria which can withstand boiling for an appreciable time.
- (b) Light — the ultra-violet radiation in direct sunlight has a lethal effect on most micro-organisms and the life of an airborne cloud of

bacteria in the open consequently depends on weather conditions. The light and heat of a dry summer day would reduce the infectivity of an airborne cloud considerably in the course of a few hours.

- (c) Long Storage — this may considerably reduce the numbers of living organisms in a container and may also affect their virulence.
- (d) Explosive Force — the explosion by which organisms might be liberated into the atmosphere from a bomb would undoubtedly kill a proportion of the organisms contained in the bomb.

CLASSIFICATION OF B.W. AGENTS

In broad terms B.W. agents, like chemical warfare agents, may be classified as persistent and non-persistent.

- a. Persistent agents — these are very few in number and are of spore bearing forms of bacteria. The spore represents a resting or dormant stage in the existence of certain kinds of bacteria to which they revert when conditions are adverse to growth. The spore behaves in fact very much like a plant seed and in a similar way when conditions of warmth and moisture are suitable and stable it germinates and produces the vegetative or active form of the bacterium once more. Like a seed too it may remain alive but dormant for considerable periods of time when conditions are unsuitable for its growth. The spore bearing bacillus differs from the plant, however, in that it can revert to the spore form at any time. Examples of spore bearing bacteria which might be used as persistent agents are those producing anthrax and tetanus.
- b. Non-persistent agents — these are not spore bearing and consequently tend to die rapidly under adverse conditions. An airborne cloud of non-persistent agents would be acted upon by the destructive influences of light, temperature and lack of

moisture. It would at the same time of course be dispersed and diluted by air currents and in consequence the concentration of living organisms would decrease quickly. After a short time the chance of its causing infection would be very greatly reduced. Examples of non-spore bearing bacteria are those producing cholera, plague, diphtheria, enteritis and pneumonia. Also falling within the class of non-persistent agents are the viruses such as those causing rabies, yellow fever and epidemic influenza. For all the reasons given in paragraph 8 not all of these would be equally suitable for development as B.W. agents.

MODES OF INFECTION

The three principal ways in which airborne micro-organisms may be absorbed into the body are:—

- (a) By inhalation. The organisms floating in the air may be breathed in and this is the most likely path for infection from an air-borne cloud.
- (b) By ingestion — the organisms may fall on unprotected food or drink and may subsequently be swallowed.
- (c) By contact through wounds — B.W. agents may pass directly into the blood stream when open wounds are exposed to an infective cloud.

METHOD OF DISPERSAL

B.W. agents may be disseminated on a large scale by an air attack using air-burst bombs or on a small scale against specific objectives by saboteurs.

a. Air-burst bombs — an attack with B.W. agents on an urban population as a whole would probably be made by dropping air-burst bombs over the selected area. Primary clouds of air-borne micro-organisms would be formed and would drift down wind, gradually becoming dispersed and diffused and forming pockets in sheltered corners in the same way as a gas cloud.

b. Sabotage — attempts might be made to infect water supplies, to contaminate

food or to attack growing crops or domestic animals. Of these perhaps the greatest danger would appear to be the infection of urban water supplies since dissemination of disease would be wider by this means than by the others suggested. This is, however, more difficult to achieve than would at first sight appear. Wherever people live closely together there is always the danger that drinking water will be infected by sewage and consequently stringent precautions are continually observed by water undertakings to guard against the possibility of bacterial infection. Elaborate processes of filtration and chlorination through which the water passes before it enters the mains reduce the risk of infection from normal sources to negligible proportions. Moreover, samples of the water are usually taken daily and the bacteria present are identified and counted. Food-stuffs are similarly guarded by public health precautions, but it is possible that they could be infected on a very limited scale by saboteurs. Disease may also be disseminated among growing crops by saboteurs. Except perhaps as a long-term project, however, a considerable effort would seem to be necessary to affect the country's economy appreciably and there is also the consideration that crop diseases once established might be difficult to stamp out again and the enemy might regard this as a disadvantage. In the same way infection could be spread among domestic and stock animals and poultry and there is no evidence as to how successful such attempts might be.

POTENTIALITIES OF BIOLOGICAL WARFARE

It is useful to compare biological warfare to chemical warfare which of all weapons it most resembles. Biological warfare may be regarded as similar to chemical warfare in that—

- (a) They are both forms of attack which do not damage property and machines but only affect the use

that is made of them. The industrial potential of an attacked country would be affected by the loss, temporarily or permanently, of a number of workers and by the temporary inactivity of a number of machines. There may also be, in each case, a morale effect depending on conditions at the time, which might adversely affect the output of non-infected workers.

- (b) In so far as its movement, progressive dilution and penetration into houses and shelters is concerned, a cloud of micro-organisms suspended in the air behaves precisely as a cloud of non-persistent gas.
- (c) The main defence against inhalation of air-borne micro-organisms is, as against war-gas, the respirator.
- (d) While any surface may become contaminated this contamination may be particularly dangerous as regards food and drink.
- (e) If persistent B.W. agents are used contamination may remain for a considerable time.

B.W. agents differ from C.W. agents

and are more difficult to deal with because—

- (a) They cannot be detected by the senses and at the same time their presence or absence is not revealed by the use of chemical detectors.
- (b) The process of establishing the presence of B.W. agents and of identifying them is slow and difficult and may take several days.
- (c) Since the presence of B.W. agents cannot be established quickly and since they are liable to move to a limited degree as secondary clouds after the primary cloud has passed, it is very difficult to define infected areas.
- (d) The decontamination or disinfection process for persistent agents is slow, laborious and uncertain. For non-persistent agents lapse of time, accompanied by light and free access of air is probably the best means.
- (e) The incubation period, with consequent delay in the appearance of symptoms, tends to increase the risk of spread of infection by secondary clouds of certain types of agents.

(Continued next month)

Gardening Notes

By. Mrs. C. Crowe



For August

FLOWERS:

Sow: Alyssum, Antirrhinum, Candytuft, Carnation, Cornflower, Dianthus, Godetia, Hollyhock, Larkspur, Nemophila.

Plant: Iceland Poppies, Antirrhinum, Carnation. Bulbs of Agapanthus, Calla, Gladioli, Lilium, Lily-of-the-Valley, Tuberose, Tigridia, Evergreen and Deciduous Shrubs, Climbing Plants, Ornamental and Shade Trees, Roses and Hedge Plants.

VEGETABLES:

Sow: Broad Beans, Beetroot, Carrot, Lettuce, Onion, Peas, Parsnip, Parsley, Silver Beet, White Turnip.

Plant: Asparagus, Herbs, Rhubarb.

Spring flowers are opening early this year. Flowering Plums and Apricots and early Daffodils are already in full bloom and Fruit Tree buds are swelling.

If you are lagging behind with Fruit Tree pruning and spraying, complete it as quickly as possible. Set out some snail bait to catch the early-moving slugs and snails.

Keep weeds down between the rows in the vegetable garden.

When thinking of planting an extra flowering tree in the garden, remember our native wattles. They are short-lived trees, but give such a wealth of blossom in the very early Spring. This year they are making a mass of golden blossom around our district.



Football by Kevin Moore

With the competition coming to an end, Berrima is holding the position of the wooden spooners. As this may not say much for the team it is not as bad as it sounds. This year's second grade competition is one of the most evenly contested for many years. Lack of training lights is Berrima's main disadvantage as training is cut to about half an hour, which is not enough for eighty minutes football. Next year, Berrima is hoping to install its own training lights which would be a vast improvement.

Berrima v Bowral

Berrima reversed its defeat by Bowral in the first round when it defeated Bowral in the second round by 12-8. Best for Berrima were A. Day and D. Mexted in the forwards and L. Adams and T. Mott in the backs. T. Mott was unlucky to injure his shoulder when he hit the goal post while trying to stop one of the Bowral tries. L. Adams replaced him at half with Trevor going to the wing. Len showed that although he has slowed up a little he is still a great force in second grade.

Berrima v Campbelltown

Campbelltown, with its first grade having a bye, decided to send some of their first grade players to Berrima for the return match on the red and green's home ground. This was the main factor in their convincing win over

Berrima. Their biggest shock was when their combined Group hooker Murdock received a hiding from J. Moore. Jim, having his first season in that position, has really done a good job. Campbelltown won 35-7.

Berrima v Camden

Camden, one of the most improved clubs in second grade, reversed their early defeat by Berrima when they won a hard match at Camden, 15 points to 6. Here we saw a welcome return to form of B. Moore. Although all the forwards played well, Berrima was let down badly by the defence of the backs which has been one of Berrima's greatest assets.

Berrima v Mittagong

Mittagong, full of confidence after their defeat of Picton the previous week, came to Berrima expecting to win by a large margin, but received a shock. Berrima, with J. Moore and D. Mexted on the sidelines unfit to play, H. Stephens and A. Butcher A.W.L., N. Austin, R. Stafford, P. Osborne and G. Goodfellow showed their willingness and helped out. R. Stafford showed he is still one of the best hookers in the group and he also showed the young fellows how to tackle. T. Mott showed a welcome return to form after a bad run due to the injuries he has suffered in earlier matches. Mittagong won 19-13.

Bowls

District Clubs, despite all the criticism levelled at them concerning excess poker machine profits, do quite a lot for various charities—Bundanoon Club is no exception and on Sunday, 1st July, held a nominated men's fours competition to assist the Harbison Homes for the aged. Quite a lot of S.P.C.-ites entered and some met with success. Alwyn Counsell's four won the main trophies, Bill Rutter's four, including Fred Armstrong, won the visitors' trophies.

Great combination, this Rutter-Armstrong pair — Bill always listens to any advice that Fred has to offer. But now we have the jackpot question. Did Fred tell Bill to bowl on the wrong bias???

Jack Mott is a busy boy when the bowling season is really on, but now that there is a lull in the works Jack is doing the rounds of the various clubs in the district. But he's playing safe, all his visits are on mixed days.

Next month, the last one of Winter, will see the commencement of the State championship games in this district and already our boys are in training. Our record in State games is really good, but to date we have not been able to win the District fours. Perhaps this will be S.P.C. year in this event.

Our golfers have had the pleasure of playing against B.H.P. employees and registered a good win.

Not to be outdone, 12 of our bowlers did battle with 12 from A.I.S. on Sunday, 29th, at Moss Vale, and all three fours registered wins. The total scores were S.P.C. 68, A.I.S. 50.

The make-up of S.P.C. teams and respective winning margins were:—

J. Brown, C. Wheeler, E. Johnson, L. Knight, +8.

J. Colquhoun, F. Bonnar, T. Penfold, J. Fuller, +8.

J. Douglas, P. Berry, W. Rutter, A. Counsell, +2.

S.P.C. did have a self-appointed manager for the day and for a "man of his age?" he did a terrific job. He went sight-seeing down the coast and left us without a leader.

It was rather unfortunate in that we expected 16 players from A.I.S. and had selected 16 from S.P.C. to meet them. When only 12 arrived, four players had to be omitted. These players, Norm Sullivan, Johnny D'Adam, Harold Sheather and Doug Crowe were very disappointed but understood the position.

Just another point! If Len Knight ever retires from S.P.C. he's sure of a job at the morgue — after he'd killed three of the first four ends, one of the A.I.S. boys offered to get him the above job.

Last month I mentioned that Sandy Galloway didn't look like winning a trophy. Well I must have stirred his Scottish blood, because he collected the runner-up trophy at Bundanoon's mixed day during the month.

Moss Vale have a good record in the "Tin Hat Trophy", an event played for on a challenge basis between teams comprised of ex-servicemen. On Sunday, 22nd July, five S.P.C.-ites, Norm Sullivan, John Fuller, Doug Crowe, Sid Hurst and Bill McDonnell helped them to another good win against Robertson.

MARULAN

The competition for the Apex Belting trophy by members of Marulan South Carpet Bowls Club ended with the grand finals on July 4.

A high standard of play was evident throughout the competition which lasted about three months.

Grand final results were: Doubles, Stan and Mrs. Murphy; singles, gents, S. Murphy; singles, ladies, Mrs. Kevin Howard.

The play-off was between: Doubles, Stan and Mrs. Murphy v Cec Cluney

and Mrs. Cosgrove senior; singles, gents, Kevin Howard and Stan Murphy; singles, ladies, Mrs. Johansen and Mrs. Howard.

The pictures following give some idea of the seriousness with which the players view their local competition.

Following a very nice supper provided by members of the club, presentation of trophies was carried out. Apex Belting Company representative tendered his apologies for not being able to attend the function. Last minute changes affected his previous plans to present the Company's trophy.



Mr. Howard presents the Apex Belt Co. trophy.



The Champ !



Mrs. Johansen rolls one down.



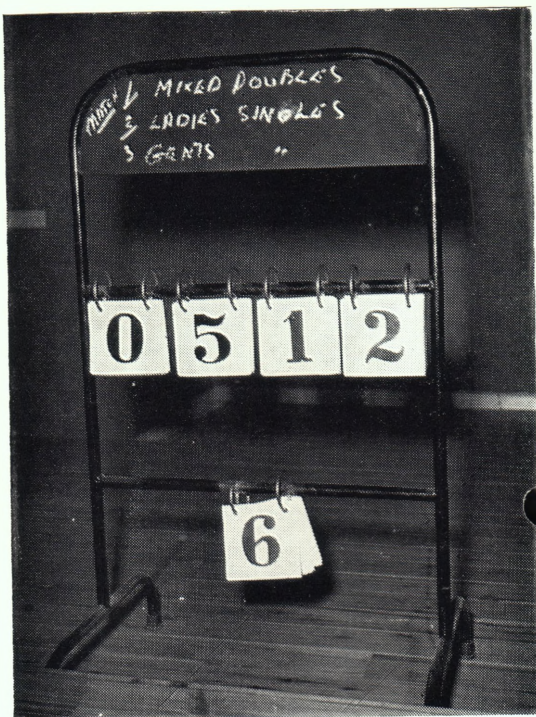
Mrs. Howard exhibits the form that won the ladies' singles event.



Looks like a tight game !



Mrs. Howard receives her trophy.



The final score in the gents' singles !

Fishing Notes

Owing to the large quantity of fresh water in the local fishing places, a certain amount of activity, that was noticed, was curtailed.

However, we have reports from a few points that the fish are still there!

Jack Brown did all right at Greenwell Point, with a large bag of flathead and bream. I just don't know the exact spot, but last time I was down there I lost enough lead to keep a deep keeler down!

A few of the kiln floor boys had good catches outside. Bert Garbutt, fishing outside Ulladulla, got amongst

the Mowies! He tells me that they were landing them on two hooks each throw, and when his fisherman cobbler says he's sick of fish — boy, they must have had a boatful!

I notice that restrictions have been placed on netting operations, from Rockhampton North! Netting between 12 midnight on Friday night to 12 midnight on Sunday night is prohibited.

The idea is to gradually move South. I don't know how long it will be before this scheme is in our area of fishing, but I think it will be a long awaited red letter day for the sporting angler!

Personal Pars

Heard on the Grapevine

BERRIMA

Jimmy Colquhoun has the right idea. He is at present holidaying at Cairns, Northern Queensland where, I am told, they have glorious winters. In fact, you could swim every day if you so desired.

—

Our Works Manager is trying out a new holiday spot this year. On Saturday, 4th August, Mr. and Mrs. Knight boarded a 'plane for Norfolk Island, east of Brisbane, and some 300 odd miles north of his usual spot, Lord Howe Island. They plan to spend three weeks at this island paradise where Len will indulge in his favourite sport, bowls. No doubt the fishing at this spot will also be good and we should hear some good stories when they return.

—

To Mr. and Mrs. Bob Hartley, a daughter, on Friday, 27th July.

Congratulations Bob and Mrs. Hartley!

—

Bill and Terry Saker and Bob Friend have returned from their recent kangaroo hunt in western N.S.W. The venture was a success and a total of 120 'roos were bagged, but by all reports they covered quite a few miles on foot to obtain this result.

MARULAN

Congratulations to 4th Year Apprentice Fitter, Merv Henderson, and his wife on the birth of a son—Mike.

—

More production records were broken at the Quarry last month. The new figure for a single shift is 2988 tons and for a day 6984 tons.

Boilermaker Norm Willdin has had another operation on his foot which was injured last October when a heavy piece of iron fell on it. Best wishes Norm for a speedy recovery!

—

David ("Taffy") Owen was elected to the Sick and Accident Fund Committee at the recent annual meeting. He will represent the employees and take the place of Trevor Pearson who is now a staffman.

—

Apprentice Eddie Cooper's run of bad luck continues. He recently bought a new car and had it a few days when a truck ran into him causing extensive damage. At the panel beaters in Goulburn, someone broke into the premises and took Eddie's radio.

—

We are pleased to report that Mr. Mick Cosgrove, senior, is well again after his stay in hospital.

—

Ian Mackey, 4th Year Apprentice, is spending three months at the Quarry as part of the turn-round programme for S.P.C. apprentices.

—

John Hui has joined the Maintenance Section at Marulan South as a fitter. He was born in Hong Kong and served his apprenticeship in the British Naval Dockyard there. His wife and two young children are still in Hong Kong.

—

Eddie Read and his wife have settled down to home-making after their recent marriage. Reports indicate that Eddie is learning the mysteries of gardening and Betty the art of cooking.

SYDNEY

We would like to extend a welcome to another new S.P.C.-ite, Mr. Reg Brown, who has for the past three years been Manager of Cement Distributors store in Canberra, run on our behalf, and has now joined the happy fold as our Canberra Sales Representative.

From what I hear, Reg is a "real" cement man — he eats, sleeps and drinks cement (maybe with a dash of a more wholesome liquid).

Keep up the good work in Canberra, Reg; remember we have to find work for the new kiln.

Allan Baily has just returned from holidays at Oberon. Allan spent approximately three weeks on his uncle's grazing property there and had a most refreshing break from the city. On returning Allan was heard to say, "There were no people for miles, only cows and more cows." Depends on how you interpret this. Unfortunately Allan had to cut short his holiday to return for an Economics Test. Best of luck Allan, I hope the results justify the effort.

S. P. C. Ltd. Employees' Welfare Sick & Accident Fund

INCOME & EXPENDITURE ACCOUNT FOR PERIOD ENDED 30/6/62

Transfer of previous S. & A. Fund Account	369	13	5	By Members' Benefits	1294	18	0
To Members' Subscript. & Donations	2577	8	0	Printing & Stationery ..	19	7	1
Interest to 30/6/62	27	10	10	Surplus transferred to Accumulated Funds			
				A/c.	1660	7	2
	£2974	12	3		£2974	12	3

BALANCE SHEET AS AT 30th JUNE, 1962

Accumulated Fund as at 30/6/62	1660	7	2	Cash at Bank	1656	13	4
				Accrued Interest	3	13	1
	£1660	7	2		£1660	7	2

At the Annual General Meeting held on 20th July, the existing Committee was re-elected with Mr. Cec. Warner being elected honorary secretary. Generally the meeting was poorly attended although Marulan Quarry was represented.

The Chairman's Report and Balance Sheet was presented by Mr. Fred Bonnar, who expressed satisfaction on the progress of the Fund over the past year, whilst actions of the governing

Committee were endorsed by all those present.

As you can see by the figures above this Welfare & Accident Fund has done much to assist members who have made claims throughout the year. Any employee who is not yet a member and who wishes to get information on the rules and regulations governing this Fund, can do so by applying to any of the Fund officers or members of the Committee.

N.R.M.A. Motoring News

Single Unbroken Line Must Not Be Crossed

Many motorists are being fined for crossing single unbroken yellow lines.

N.R.M.A. General Secretary, Mr. H. E. Richards, said that some drivers did not seem to appreciate that it was not legal to cross these lines and consequently the police were booking them for such infringements.

"We advise drivers to be careful in this matter," said Mr. Richards. "The number of motorists receiving on-the-spot tickets for this offence has become heavy and the penalty is £5.

"Whilst unbroken yellow lines exist in many areas, one particularly notorious spot where the police operate consistently is in Miller Street, Pyrmont, at Saunders Street. When traffic is heavy there, it can become a problem to get into the right lane without crossing the single unbroken line and we have asked the authorities to take some action to assist motorists to travel in their correct lanes at this point.

"In the meantime drivers are warned that by crossing any unbroken line they risk a fine, unless the line is crossed

while the driver is turning to right or left at an intersection or while he is, by the shortest route, leaving or entering a street."

CANBERRA GETS READY

A boating craze is sweeping Canberra as a vast Federal Government project nears completion. Popularity of the sport is due to the filling of the Canberra Lake, which equals approximately the size of Sydney's Middle Harbour.

Backyard building of craft is in full swing and several hundred are expected to be ready when the project is completed in 18 months.

Canberra Yacht Club, with a membership of 160, expects a rise of over 400 in the next 12 months.

A special commission has been established to control the surge of craft expected to use the Lakes. Special areas for speed-boating, yachting, pleasure cruising and rowing already have been mapped out.

Inductions

The following employees commenced with the Company during the month:—

Maintenance: Fred Hill, Doug Wortz, Geoff Price, Laurence Orford and William Duff.

Production: Tom Jamieson, Leonard Lowry, Reg. Ireland, Henry McKeown and Albert Angel.

Stockhouse: John Cairney, Ewen Akrigg and Trevor Crowther.

To these new starters we extend our best wishes for a happy association with S.P.C.

Let's Laugh

Man (rushing into a store): "I want a mouse trap. And please hurry, I have to catch a bus."

Clerk: "I'm sorry, sir, they don't come that large."

—*—

One Texas oilman asked another what he was going to give his son for his birthday.

"Motors".

"Electric or gasoline?"

"General."

— Problem Page —

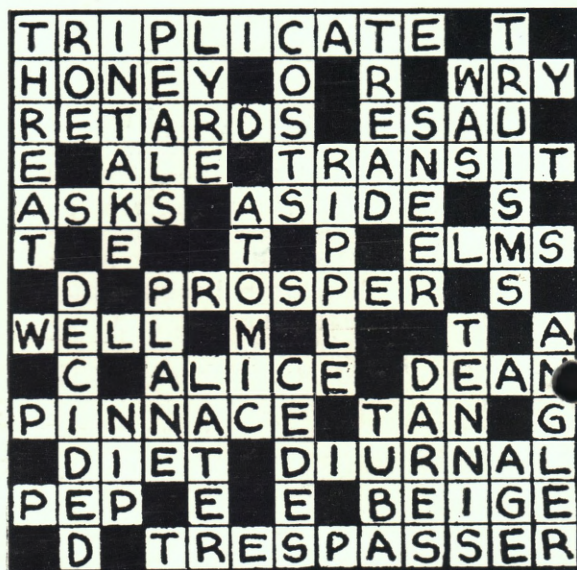
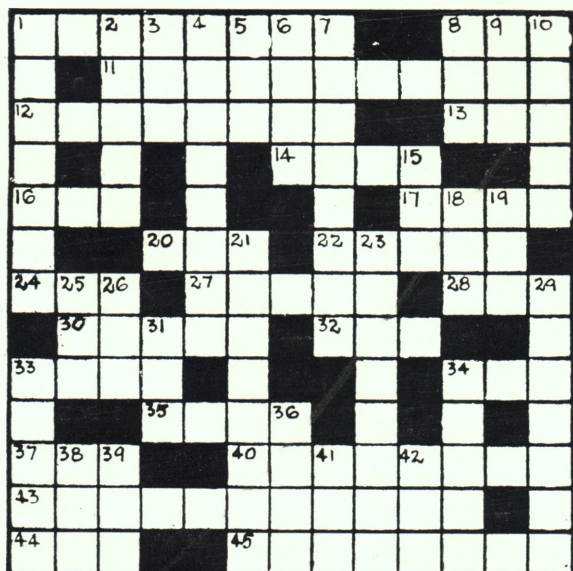
The result of Problem No. 41 is shown at right. Winner this month was Lew Wilson (Colliery).

Congratulations Lew!

PROBLEM No. 42

Across

1. Shoot out in rays
8. Impersonal, Possessive
11. Memorable flower
12. Men of letters
13. Fundamental note
14. Of the dawn
16. State of equality
17. Skilful
20. Rotund
22. Dispute
24. Fish
27. Hackneyed
28. Drop bait into water
30. Indian coin
32. Finish
33. Norse tale
34. Conflict
35. Pen points
37. Custom
40. Madmen
43. Person disguised
44. Large deer
45. Relied



Down

1. Throw into the shade
2. Later
3. Female deer
4. Annoy
5. Turkish Commander
6. Head (Fr.)
7. Become pale
8. Writing material
9. Foot member
10. Fashion
15. Vex continually
18. First plant shoot
19. Meadow
21. Shook
23. Deserter
25. Period of time
26. Drag
29. Read carefully
31. Forest deity
33. Foam
34. Strange
36. Certain
38. Salt
39. River in Scotland
41. Short sleep
42. Numeral

PS

SPC

Vol. 4, No. 9

SEPTEMBER, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

✓

General Manager's Notes

During August I attended a Quarterly Meeting of the Council of the Cement and Concrete Association of Australia held in Perth. The city itself is being smartened up for the Empire Games to be held there in November and the people are all very enthusiastic about the forthcoming sporting activities.

The building industry is starting to boom in the West due to expectations of large capital expenditure on development of the State's extensive raw material resources over the next decade. At this stage actual commitments total some £200 million of which B.H.P. is the major contributor for the development of the Koolyanobbing Iron Ore deposits and the construction of a Steel Works at Kwinana.

The major cement manufacturer is Cockburn Cement Pty. Limited which operates a single kiln plant at Spearwood a few miles south of Fremantle. This plant has a capacity of 150,000 tons of cement per year and the installation of a new kiln has just been authorised by the parent company, Rugby Portland Cement Co. Limited of England.

Swan Portland Cement Limited operates the other Western Australian cement plant on the Swan River almost in the heart of Perth. This plant has a capacity of 110,000 tons per year and also makes hydrated lime and lightweight aggregate. As it was almost three years since my last visit I was sorry I could not stay longer as the hospitality of its people makes every visit both instructive and enjoyable.

GENERAL MANAGER.

S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.

Vol. 4, No. 9.

SEPTEMBER, 1962

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● EDITOR

M. D. Hauber

● PRINTERS

Southern Highland News
Pty. Ltd., Bowral

● ALL CORRESPONDENCE AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

● COPY DEADLINE

1st of the Month

— Departmental Representatives —

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES	Mrs. C. CROWE Berrima
-----------------	--------------------------

— Editorial —

Dear Readers,

Most talked about item this month, was of course the snow, the heaviest fall since 1932. There are people who will no doubt argue this point but by a comparison of photos it is obvious that the 1932 fall was somewhat heavier.

Nevertheless, the 6 to 8 inches that we had was indeed a sight to behold. In certain areas this figure was undoubtedly higher as for instance on the top of Oxley's Hill I would be surprised if there was not 12 to 15 inches at the height of the fall.

It is interesting to record that not one injury was suffered by any man at

either Marulan or Berrima during this heavy snowfall. The risk of accidents occurring was extremely high during the two days that the snow was with us, especially to those working outdoors. This again adds up to observation of safe practices.

However, the snow caused many accidents on the roads and also took toll of live-stock in the district.

Below are some pictures for the benefit of readers who didn't see the spectacle.

Until next issue,

Yours,

The Editor.



Main Street, Bowral during the height of the Snowstorm



The Car Park from the Works Office



Our Snow-man in front of the Office



A "white" Coal heap !!



Entrance to the Works

S.P.C. Apprentices Excel

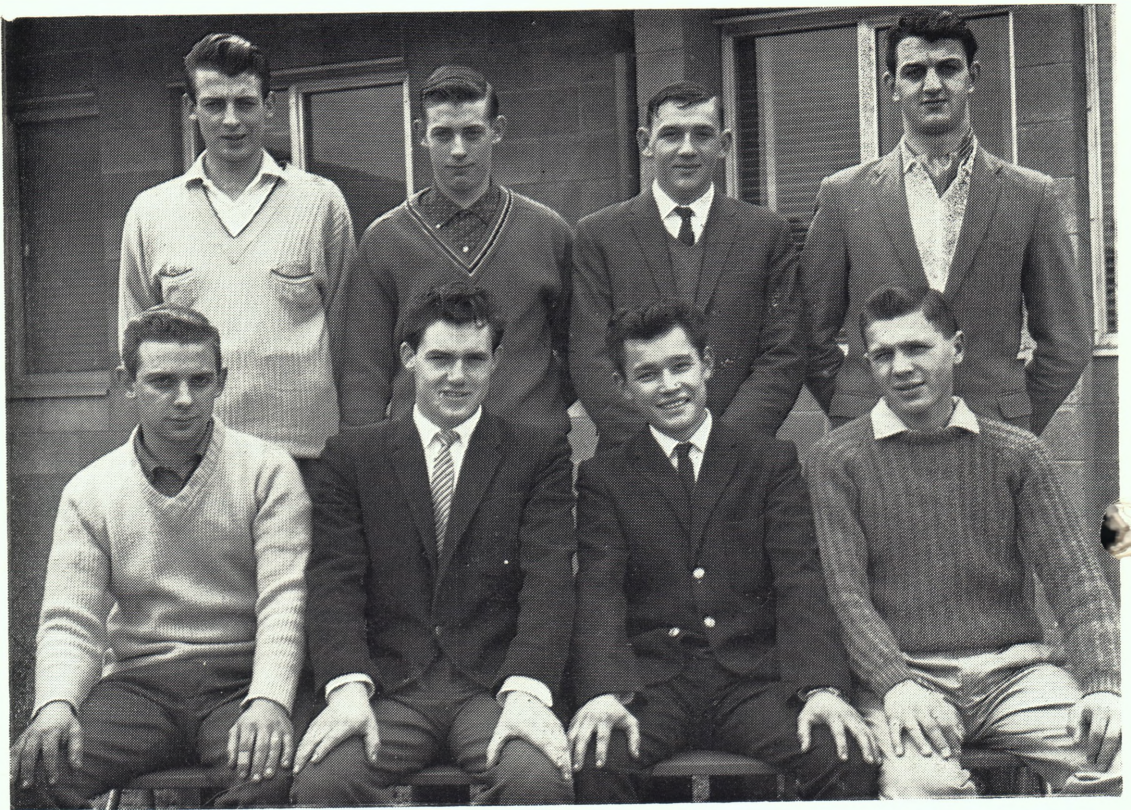
At the Twelfth Annual Presentation of prizes to students of the Goulburn Technical College, no less than eight S.P.C. apprentices and one daughter of an S.P.Cite were recipients of awards.

The function was held at the Lilac Time Hall, Goulburn on 16th August and was opened by Mr. W. Bolton,

Chairman of the Technical Education Committee.

After a report by the Principal, the presentation of prizes commenced with the four special awards being made by Mr. L. J. Tully, M.L.A. and the trade awards by Mr. J. F. McNicol, General Manager, Southern Portland Cement.

The picture below shows the eight prizewinners:—



From left to right:

Front Row: Max King, Ian Mackey, Miles Creswick and David King.

Back Row: Robert Jeffrey, Robert Strode, John Hargraves and John Grilz.



Miss M. Cluney

Miss M. Cluney (pictured) daughter of Mr. and Mrs. Cec. Cluney (Marulan Quarry) was the recipient of an award in second term Invalid Cooking. Miss Cluney is a nurse at Goulburn Base Hospital.

Congratulations to all these people who have shown remarkable keenness in their studies.

Visitors

On Monday, 27th August, we were visited by Mr. I. M. McLennan, Chief General Manager of B.H.P. Co. Limited who was accompanied by Messrs. A. A. Parish and R. G. Newton, Directors of Southern and also Sir Cecil Hoskins who was Chairman of Southern from 1927 to 1957.

The party visited Marulan Limestone Quarry, the Colliery, Cement Plant and the new Works of Southern Limestone Pty. Limited at Berrima Junction.

Civil Defence

Notes on Fires and Fire Extinguishers

Remember that SMALL fires can grow into BIG fires and cause considerable destruction.

Consider what makes a fire, and it becomes easy to prevent one. Cleanliness and good housekeeping are essentials to this end.

A normal fire needs:—

- (a) Fuel to burn.
- (b) Heat to make it burn.
- (c) Air (oxygen) to keep it burning.

TO STOP A FIRE therefore:—

- (a) Take away the fuel. Remove burning material before fire spreads.
- (b) Take away the heat. Except for liquid and electrical fires, there can not be too much WATER on

hand. It will put out most fires, e.g., wood, cloth, paper. These are known as deep-seated (or free burning) fires.

- (c) Take away the air. Smother with a bag, rug etc. These are more efficient when wet.

TO PREVENT FIRE:—

- (a) Keep premises clean and clear of rubbish.
- (b) Have plenty of water on hand.
- (c) Keep all Fire Fighting Appliances in good order and ready for immediate use and know how to use them.
- (d) In the event of fire, DO NOT LOSE YOUR HEAD.

- (e) Never stop fighting a fire EXCEPT to save a life.
- (f) NEVER search a burning building alone.
- (g) ALWAYS report a fire to the fire officer IMMEDIATELY.

To give further help, we analyse some distinctly different types of fire and some of the fire Extinguishers used against DEEP-SEATED fires (e.g. wood, paper etc.), and in fact against almost all fires EXCEPT LIQUID AND ELECTRICAL FIRES.

The extinguisher contains water in which SODA has been dissolved. An ACID container is suspended in the head of the unit. When the acid and the Water-Soda are mixed together a GAS is formed which forces the WATER from the extinguisher.

There are two common types of Soda-Acid Fire Extinguishers.

(a) TURN OVER (or Invertible) Type.

When this unit is turned upside-down, the acid mixes with the water-soda solution.

(b) BREAK BOTTLE Type.

When a plunger is pushed in at the head of the extinguisher, it breaks an acid bottle: then the same action takes place as with the Turn Over Type. Some Break Bottle units are operated in an upright position and some in an inverted position.

Both units are simple to operate: the only difference is the method of mixing.

The capacity of the usual Soda-Acid unit is 2 gallons. When operated it produces a stream of 25 to 30 feet, which last for about two minutes. It has a cooling effect and causes little or no damage. These units weigh approximately 35 lbs. and are therefore light enough for most people to handle. They are painted RED and operating instructions are set out clearly on the label. Some units have a discharge hose, and others a nozzle discharge.

2. The Foam (Or Froth) Extinguisher can be used with effect on free burning fires, but is designed for use against liquid fires (oil, petrol, etc.). It is NOT suited for fires involving electricity.

The Foam Extinguisher contains Water, Soda and a Foam ingredient, and has suspended in it a cylinder containing an Acid Salt.

The most common capacity of Foam units is two gallons. When operated it produces a stream of 25 to 30 ft. and lasts about two minutes. Foam SMOTHERS fire and has cooling effect. The charged unit weighs approximately 36 lbs. It is painted BLUE. A hose can be fitted. They should be serviced and recharged every 12 months or when used and require regular hydraulic testing.

3. The CO₂ (Carbon Dioxide) Extinguisher has some effect on all types of fire, but is particularly useful against liquid and electrical fires.

The CO₂ Extinguisher is a high pressure steel bottle containing carbon dioxide only at high pressure. The cylinders are fitted with SQUEEZE-GRIP type valve.

This Extinguisher is operated by opening this valve and allowing the gas to pass to a diffuser horn, through a short tube on small units and through a flexible hose of varying lengths on larger units. It has a range of about 6 ft. It has a smothering and cooling effect.

The CO₂ unit should be inspected yearly and weighed, but does not require recharging unless underweight. It is usually painted RED.

4. The Dry Chemical Extinguisher is used against fire with astonishing results. Highly suitable for inflammable liquid and electrical fires.

The Extinguisher contains a specially compounded chemical. Fitted to the top of the unit, either internally or externally, is a cylinder containing CO₂.

To operate, a valve or seal is opened, releasing the CO₂ into the powder. The pressure of this gas forces the powder from the Extinguisher. With units of 20 lbs. size and over, the discharge of powder can then be controlled by stopping and starting it at will by the means of a squeeze-grip nozzle at the end of a short hose.

Continued on page 8



A fierce oil fire — size approximately
20 ft. x 10 ft. — flames 15-20 ft.
high.

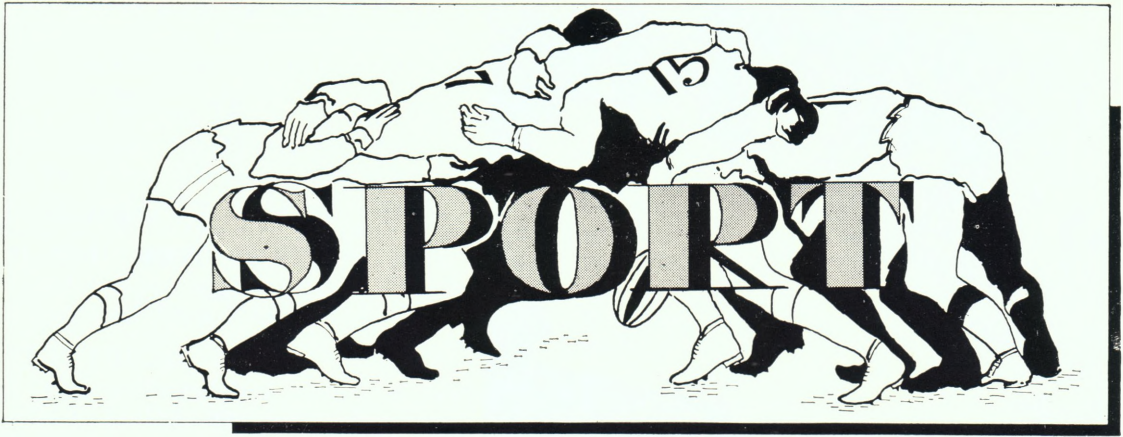


Starting on the top side of the fire
with Dry Chemical.



Working along the fire which is all
but smothered.





Football by Kevin Moore

With the competition now coming to a close and the finals well on the way, Berrima players have hung up their boots until next season. Berrima suffered the worst season yet when it failed to get going and finished up at the bottom of the competition. The only bright part of the final match was the ability shown by Freddy Bender. Freddy filled in when Berrima were

short and won the best and fairest points for the day. He is now looking forward to next season when he promises to be in it from the word go.

The best and fairest awards won for the season went to T. Mott, best and fairest player; B. Moore, best and fairest forward and the most improved player D. Garbutt.

Although Berrima is now finished, S.P.C. and Medway still have many representatives in the finals. Mittagong is represented by Wally Carey and Billy Verhaeghe, Bowral by Jimmie Murchie and Crackers McDonald; Moss Vale who were beaten in the first semi-final were represented by Brian Townsend, Steppa Burke, Ken Mott, B. Poland and the three Foodey brothers, Les, Ron and Kevin.

In the second grade team which won the right to play Campbelltown in the final, Terry Snowden, Tony Burke, John Townsend and Bluey Platt were included in the line up. It is interesting to note that the three first grade hookers from the southern end, work together at Medway mine. Bill Poland must be congratulated on being included in the Moss Vale first grade line up in his first year of football.

Another one who deserves a big hand is Tom Newstead from the Stockhouse. Tom coached Robertson under

CIVIL DEFENCE

Notes on Fires and Fire Extinguishers

Continued from page 6

The powder is non-toxic, non corrosive, non-freezing and will not conduct electricity. It can be easily swept up after use and will do no damage. The powder SMOTHERS the fire. The units are painted ORANGE or RED.

Dry Chemical Extinguisher is particularly suitable for diesel, electric, petrol and fires of a HIGHLY INFLAMMABLE nature.

Below are some pictures taken at a recent Fire Fighting Equipment Demonstration where all the above mentioned extinguishers were tried out on different types of fires.

The most outstanding and spectacular demonstration was with the dry chemical extinguisher which gave amazing results.

16's who were narrowly defeated by Campbelltown in the grand final by 9 points to 4. This is indeed a great effort when you take into consideration the population of the two towns. Included in the team were P. Watson from the general office and Sam Moule son of Toby Moule of the Calcinators.

Bowls

The State Championships are now under way in our District and S.P.C. players have already turned in some good performances.

In the Fours, Len Knight's team with substitute Fred Armstrong playing in Len's place have had two convincing wins. Al Counsell's Bundanoon four has had a bye and a close win and now meets Len's four in the third round. No side bets! Len Knight, after three weeks bowls on Norfolk Island and in rare form, has shown the true spirit of bowls. His four has done so well without him that he is not going to come back into the four at the expense of one of the original four.

The Singles have also advanced to round two, and our boys are still having good wins. Fred Armstrong, last year's District Singles winner started off with a solid 31 - 21 win. Curly Ling our Colliery candidate just missed out against Bowral club mate Bert Swan. Al. Counsell has won his way to the third round and now plays a fellow Bundanoon player.

If any of you S.P.Cites want chicken for the week-end menu, all you have to do is work Tom Penfold's shift for him each Thursday afternoon while he plays bowls and you can't miss. This natural ability to round up birds must come from spending so much time among the cranes! Oh, no!

I mentioned in last issue that Sandy Gallaway from the Colliery had got his Scottish blood up, well it is still up, 'cos Sandy cleaned up the prizes at Bundanoon's mixed day again. Keep it up Sandy and Mrs. G. will be getting you a trophy cabinet for Father's day.

Marulan

The Southern District Rifle Clubs Union held their Annual District championship shoot at Yass on Sunday, 26th August. Seven clubs were represented, also six Junior champions competed for their respective clubs!

The A Series was won by J. Carman of Goulburn, J. Ockenden of Canberra 2nd, D. Taylor of Marulan 3rd.

A strong cold wind prevailed throughout the shoot and made conditions rough.

The Junior Championship was won by N. Holden of Canberra with P. Winterton of Goulburn 2nd.

The Quarry riflemen have at last coaxed a team from S.P.C. Berrima to match on a date to be fixed. The Quarry soccer and cricket teams have been superior, a challenge from the Carpet Bowls Club was ignored, now it is up to the riflemen to make amends?

Painter Barry Barnfield will compete in the Queen's Shoot at Anzac Range early next month. Other Marulan riflemen expected to shoot are Trevor Pearson and Doug Taylor.

Marulan Women's Hockey team, the Waratahs, went through the season without a defeat. They were due to play in the finals after this magazine went to press. They were hot favourites. The men's team could not take a trick and went through the season without winning a match. No further comments!

With the warmer weather approaching, tennis players are appearing on the courts for night games. The courts are in excellent condition and an enjoyable summer season is expected. The club is anxious to hear from Berrima, because they feel they could hit the socks off any challengers!

Fishing Notes

By Rus Greaves

I think we have seen the last of the very cold weather and anglers will be looking over their gear in preparation for the coming warmer weather.

Having broken the top section of my split cane rod at the end of last season, last time in Sydney, I tried for a replacement. It seems that it was very nearly cheaper to purchase a new split cane than to buy a new section. However, I ended up by purchasing a new Jarvis Walker prestressed beach rod. It is only 10 feet long, but well finished and is mighty powerful! The price? £4/10/0 complete!! Who would go without a new rod?

If you are wondering what kind of reel to buy for the coming season, don't go past the egg beater type. I have been using a Mitchell 306 for some time now, but have not had the Penn out of its bag!

Amendments to the N.S.W. inland angling laws were gazetted on August 24th. The variations include:—

1. Elimination of the three months closed season in waters west of the Dividing Range.
2. Abolition of minimum legal lengths of Murray Cod, Golden, Silver and Macquarie Perch and freshwater cat bream.

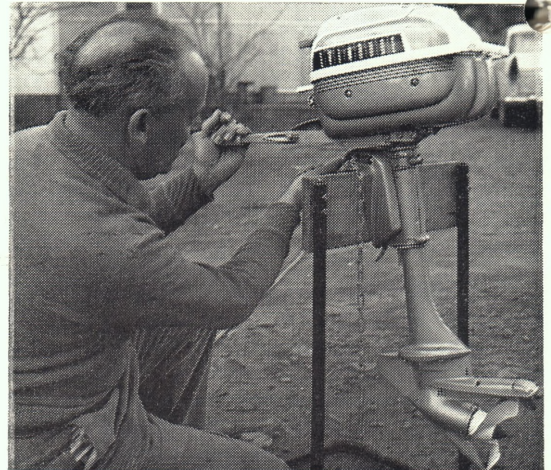
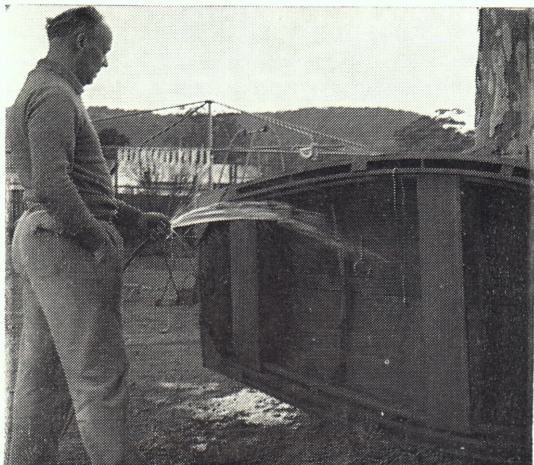


3. Impose bag limits on Murray Cod and Golden perch.

4. Permit use of spinners behind power boats west of the Dividing Range.

An inland angling licence may be obtained from the C.P.S. or sports stores at a cost of £1, and is valid for 12 months. Of course this permit covers trout also.

Leaving on holiday soon, I would be obliged for the loan of a yabby pump. If you have one you would not mind lending, would you please let the Editor know — thanks!



John Mediana prepares for the season

Personal Pars

Heard on the Grapevine

BERRIMA

Saddest item of news this month was the farewell given to Mrs. Margaret Larsen after 12 years with the Company.

Sad, because Margaret will be missed by a lot of people both in and out of S.P.C. who will remember her happy voice and pleasant personality after many years association with the S.P.C. witchboard.

Some of the S.P.C. sports clubs will miss her also for she has long been an ardent fan of the cricketers and basketball players, acting as official scorer for both these clubs.

However, we feel sure that Margaret will still be an S.P.Cite as husband

Geoff is still with us and will keep us posted of "happenings" on the home front.

Best of luck Marg. and we look forward to seeing you at our various functions from time to time.



Mrs. Margaret Larsen



Miss Jan Miller

A new starter at the General Office during the month was Miss Jan Miller (pictured) of Mittagong. Jan was formerly of Glenbrook on the Blue Mountains, where she worked for the Department of Air at Lapstone. No doubt many readers will remember the former Lapstone Hotel before it was taken over by the R.A.A.F.

Mr. and Mrs. Jack Scott have been holidaying in the sunny north.

A caravan trip to Surfers Paradise was planned and a most enjoyable time was had by all the family.

—

Bert McIntosh has been on holidays, if you can call painting the house a holiday. However, I guess the painting was interspersed with a bit of golf eh! Bert.

The Sunny North also attracted Jimmy Colquhoun who visited Brisbane, Townsville and Cairns in that order.

Jimmy tells me that the temperature was never under 80 degrees during the day which sounds like a good spot to spend the winter.

—

Charlie Wheeler is in hospital with pneumonia and we all wish him a speedy recovery.

MARULAN

The Quarry's Safety Group No. 3 (jackhammermen, poppermen, powder monkeys and other quarry workers) passed the 365 day mark on August

13th without a lost time accident. This is the first time that a Marulan South Group has achieved this distinction. Congratulations to Cec Cluney and his boys.



Group 3 (the quarry workers) at Southern Portland Cement Ltd., Marulan South, on 13/8/62 completed one year without a lost time accident. Picture shows:—

BACK ROW: Bill May, Bob Barnes, Wally Spring, Jack Watterson.

CENTRE ROW: Frank Bulger, Tom Wild, Lloyd Shoobridge, Keith Bell, Neale Cole.

FRONT ROW: Barney Eddy, Taffy Owen, Cec Cluney (General Quarry Foreman), Roy Clack and Ray Wild. Absent: Merv. Butt, J. Newman and Tom Bennett.

Heavy snow fell at the Quarry on 21st August. It was the heaviest fall in the Marulan district in memory and snow men were made by the village children. Even the men in the quarry joined in the fun with innocent snow fights.

—

The despatch of limestone from Marulan South has been speeded up with the introduction of 44 Class Diesel Locos. These Railway Department Diesels now haul all rail despatches directly from the Quarry siding to destination and a more efficient turnaround is being made. There were no changes so far as the loco crews were concerned because the steam loco is now used for shunting in the despatch yard.

—

Jack Felthan is back at work after another short spell in hospital. He has had about 29 years with the company. Good to see you back, Jack.

—

Carpenter Mick Pidgeon and family are spending annual holidays trout fishing in the Bathurst-Oberon district.

—

Len Pole, maintenance driver, with his family are spending their holidays at Tuggerah Lakes.

—

Marulan staffmen heard with regret that Mrs. Margaret Larsen has left the switchboard at S.P.C. Berrima. She was always cheerful, helpful and tactful and those associated with her will miss her greatly. We all wish you bountiful health and happiness in the years ahead, Marg.

—

Electrician Jim Galloway has "found time" to instruct the local Scouts in first aid. Time well spent, Jim.

—

Ian Cluney, son of General Quarry Foreman, Cec. Cluney, and a friend, Wally Bucknell, recently completed an overnight journey of 16 miles to qualify for his First Class Boy Scout Badge.

Marulan Apprentices Myles Creswick (Fitter) and John Hardgrave (Carpenter) were among prize winners at the annual Prize Giving night in Goulburn. Marcia Cluney, Cec's daughter, who is a nurse at Goulburn Base Hospital, also won a prize for Invalid Cooking. The General Manager, Mr. McNicol, presented the trade prizes.

—

Quarry Superintendent, Mr. Kevin Howard, and Mrs. Howard are spending a fortnight's holiday in Northern N.S.W. and Queensland. Their two children are staying with relations in Sydney.

—

The annual meeting of Marulan South Carpet Bowls Club elected Stan Murphy as president, Ted Thompson, secretary, Mrs. Mick Cosgrove, Senior, treasurer, and Stan Bell assistant secretary.

—

New starters in August were Frank Barker, Bob Cambridge, Bob Hailston, Gordon Bryant and Ron Rogers.

—

Apprentice Fitter, Wayne Percival, who has had several months of dental treatment, is now receiving the full treatment at Chester Hill, an outer Sydney suburb.

—

SYDNEY OFFICE

There seem to be more people away from Sydney Office this month than are in it. Apparently the school holidays have a lot to do with the out-flux of annual leavers and most of the holidays seem to be unplanned.

—

Both Mr. McLaren and family and John Angelini and family are off to wherever the spirit (i.e. the youngsters) may take them. With the balmy weather we're having in Sydney at present — 82 degrees — it would not be surprising to see them return with wonderful 'tans — having gone no further than the local beaches.

Jack Stedfut is organizing (or being organized into) the big working bee for his holidays. "Knocking off work to carry bricks" is most appropriate under the circumstances. Let's hope they're cement bricks Jack.

—

Up from the snow country to the tropics of Sydney came Reg Brown, Canberra Representative and Len Newman, Wagga Representative, for a two day Sales Conference this month. With the enthusiasm oozing from all the

Reps. we can expect to double our sales in a very short period.

—

With all the extra skills required in the office now that S.P.C. is almost autonomous on the accounting side, we have started the training by sending Alan Beck to Berrima for a few days to become 'aufait' with accounting machines generally. I hope the training was 1st class because we've surely missed Alan around the office.

N.R.M.A. Motoring Notes

Safety Hint for Drivers

The N.R.M.A. reminds drivers to keep headlights clean. By cleaning dirty lenses the amount of light can often be increased by as much as one-third. Clean headlights take on added significance during inclement weather, when driving visibility often is poor.

Always a First Time

Nearly 80 per cent. of Idaho (U.S.) drivers involved in 1961 fatal accidents had no record of ever before having been involved in an accident or having been convicted of a moving traffic violation. Records of the other 20 per cent. showed that previous traffic court actions against them were mainly for "minor" violations.

Test of After-Burner.

Well-known British electrical firm, Joseph Lucas Ltd., is submitting a direct-flame after-burner type of exhaust purifier to the California Motor Vehicle Pollution Control Board for test.

The device is said to reduce the content of both unburned hydro-carbons and carbon monoxide in exhaust gases below the maximum percentage set by the Californian authority, and simultaneously to take care of crankcase breather fumes.

Results of the test will be of great interest to cities concerned with the smog problem.

Most Time for Driving

Americans spend about 57 million hours per day at the wheels of their

motor vehicles, according to the American Automobile Association, which comments: "Highway driving appears to use up more than any other activity, except sleeping and watching TV.

Radar Speed Checks

N.S.W. Police Traffic Branch has advised that warning notices will continue to be used where radar units are in operation.

This advice was received in response to N.R.M.A. inquiries as the result of members advising that such notices were not being used.

The information from the police indicated that on rare occasions notices had been interfered with by irresponsible persons, and either removed from their locations, or stolen, but that the departmental policy of displaying notices had not been altered.

Ku-ring-ai Chase Wildflowers

Kuringai Chase, vast sanctuary on Sydney's north side, is always an area with an appeal to the bush lover, particularly during the wildflower season in late winter and early spring.

In early August, Boronia Ledifolia, Native Acacia and Peach Blossom are at their best, and in late August the Native Rose, Waratah and Boronia are in full bloom. Waratahs are cultivated along the road at Mt. Colah entrance. The N.R.M.A. Touring Department advises motorists not to forget that native flowers and shrubs are protected. The Chase is also a fauna sanctuary and shooting is not permitted.



FLOWERS

Sow: Antirrhinum, Aster, Cosmos, Delphinium, Sweet Peas (Summer), Dianthus, Carnation, Salpiglossis, Phlox, Cornflower, Petunia.

Plant: Shrubs, Ornamental Trees, Herbaceous Plants, Gladioli, Iris. Seedlings of Antirrhinum, Dianthus, Geum, Cornflower, Carnation, Lupin, Salpiglossis, Gaillardia, Petunia, Clarkia, Godetia.

VEGETABLES

Sow: Beetroot, Broad Beans, Carrot, Onion, Peas, Parsnip, Parsley, White Turnip, Tomato, Leek, Capsicum, Lettuce, Radish.

Plant: Lettuce, Garlic, Herbs, Potato, Rhubarb, Tomato (at end of month, and covered at night).

September and Spring:— A time of Wattle Blossom and Bird songs! In the words of Henry C. Kendall:—

“September, the maid with the swift,
silver feet!

She glides, and she graces

the valleys of coolness, the slopes of
the heat,

With her blossomy traces;

Sweet month, with a mouth that is
made of a rose,

She lightens and lingers

In spots where the harp of the even-
ing glows,

Attuned by her fingers.”

— From “September in Australia.”

What a variety of weather we have
had during the past month — rain,

frost, snow, heat and then wind! The early flowering Plums and Almonds were in full bloom, prior to the snow and immediately lost their blossoms; however, later flowering trees are out now and the Daffodils and Hyacinths weathered through all the changes in temperature. We have the Flowering Cherries, Peaches and Crab Apples to look forward to, so hope the winds will abate sufficiently to enable us to enjoy their beauty.

Don't forget to prune any Flowering Fruit Trees this month, which have finished blooming.

Top-dress the lawns towards the end of this month. Weed lawns carefully now and apply a dressing of Sulphate of Ammonia if Clovers are present, **dry, at 4 ozs. to the square yard.** Leave for two days and then water in thoroughly. The lawn grass will quickly recover from any burning which occurs. Mow the lawn before applying the Sulphate of Ammonia. Gladioli may be planted from now on, every few weeks, so that there is a succession of flowers.

When planting the vegetable garden leave room for other vegetables such as French Beans and pumpkins, etc., which can be planted next month. Keep down weeds and put out bait for snails, and slugs.

Watch for aphids on any young growth on roses, camellias, etc., and spray immediately, as aphids suck the sap from the young leaves, leaving them malformed.

Make the most of this month in the garden and get all the last-minute jobs finished before the hot weather commences.

Let's Laugh

The office glamour girl was boring her companion with an account of her adventures of the previous evening. "This chap," she said, "took me to his flat and showed me a ward-robe with at least fifteen mink coats. He gave me one." "What did you have to do?" asked the office cat. "Just shorten the sleeves," she said.

—

A hitch hiker was picked up by a rich Texas oilman driving a big, bright-coloured, richly upholstered, high-powered convertible. As they drove along the open highway, doing well over 50, the young hitch hiker noticed a pair of very thick glasses on the seat between them.

"Are those glasses yours?" the hitch hiker asked nervously, noting that the Texan was staring intently at the road before him and the speedometer was still climbing.

"Yep," came the reply. "Wouldn't go nowhere without 'em. Cain't hardly see my hand in front of my face when I ain't got 'em on!! And to the hitch hiker's dismay, when the Texan turned to talk, he squinted in his passenger's general direction, unable to make him out clearly on the seat beside him. Then sensing the hitch hiker's uneasiness, he added: "Ain't got nothing to fret over, though, sonny. This here windshield is ground to my prescription."

—

A well dressed man walked into a psychiatrist's office and admitted he was miserable.

"I have two cars, a swimming pool, and a very attractive girl living next door. But I'm still unhappy."

"But why aren't you happy?" asked the doctor.

"Because," the man said, "I lost my driver's licence, I can't swim and the girl next door is married."

We just got word about the legal secretary who said to her amorous boyfriend. "Stop and/or I'll slap your face."

—

Wife to frowning husband holding cancelled cheques in his hand: "You mean the bank saves all the cheques I write and sends them to you? What a sneaky thing to do!"

It was a middle-aged couple, and the man's wife had been badgering him for months to take some "youth pills she had been reading about. Finally he relented one night before he was going to bed and took several from a box she had bought for him. The next morning the wife kept shaking him to get up.

"Get up," she stormed, "It's time you were out of bed."

"All right, all right," he said defiantly, squinting one eye open, "I'll get up. But I won't go to school."

—

Two men were working on the White House lawn in Washington. Each had a small trash can on rollers, and was walking about picking up bits of paper with a pointed stick. As one spied a piece and was about to stab it, a sudden gust of wind came up and blew the paper into the White House through an open window.

Frantically the man rushed inside the building. He returned shortly afterward and said to his companion: "I was too late. He had already signed it."

—

The pretty young lady psychiatrist was attending a convention and during one of the lectures the man sitting next to her began to pinch her.

She got pretty angry and was just about to give him a piece of her mind when she stopped and thought: "Why should I get angry? After all, it's his problem."

— Problem Page —

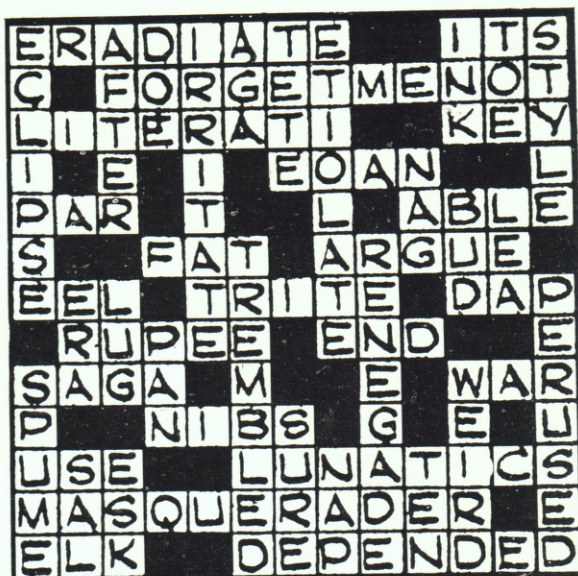
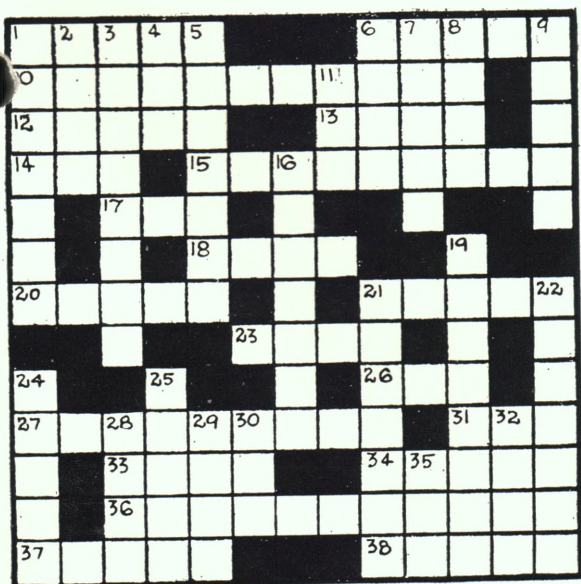
The result of Problem No. 42 is shown at right. Winner for the month was crane driver R. J. Dray.

Congratulations Jim!

PROBLEM No. 43

Across

1. Acquiesce
6. Smudge
10. Insect
12. Sporting enclosures
13. Auditory organs
14. Unusual
15. Imperils
17. Possess
18. Bay
20. Seaweed
21. Rolled tobacco leaves
23. Capital of Norway
26. Ensnare
27. Convulsive
31. Grow old
33. Hew
34. Web-footed carnivore
36. Muse of dancing (Greek myth)
37. Distribute
38. Conditions



Down

1. Stranded
2. Grating
3. Without direction
4. River in Scotland
5. Perfume
6. Width
7. Absorb
8. Scotch language
9. Awaken
11. Vegetable
16. Contrived
19. One who excites others
21. Prepare
22. Venerates
24. Burnt remains
25. Conductor
28. Minutes of court proceedings
29. Additional quantity
30. Opposite (Abbr.)
32. Microbe
35. Definite article

PS

SPC

Vol. 4, No. 10

OCTOBER, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

General Manager's Notes

The civil engineering contractors for our No. 5 kiln project, John Holland (Constructions) Pty. Ltd., are now on site and excavations of the kiln support piers are in progress. The site is now taking on the appearance of a regular construction camp with contractors' huts springing up in newly painted ranks.

The clinker cooler will be supplied by Marweight Equipment and is a grate type cooler of Polysius design similar to the clinker cooler recently installed at Angaston for the South Australian Cement Company. Our cooler will have a suction fan and cyclones on the surplus air discharge to minimise clinker dust losses.

The tender for the coal grinding system has been let to International Combustion (Australia) Ltd. The mill will be close circuited and will both dry and mill the coal in much the same manner as in other International Combustion installations throughout the Australian cement industry.

GENERAL MANAGER.

S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.

Vol. 4, No. 10.

OCTOBER, 1962

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M. D. Hauber

• PRINTERS

Southern Highland News
Pty. Ltd., Bowral

• ALL CORRESPONDENCE AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

• COPY DEADLINE

1st of the Month

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S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES	Mrs. C. CROWE Berrima
-----------------------	--------------------------

— Editorial —

Dear Readers,

A rare treat came my way this month when I was handed a large number of very old photographs for inclusion in our archives.

The photographs date back to the earliest days of S.P.C. when construction was first commenced in 1928 and are remarkably well preserved considering their age. They also tell a graphic story of the growth of the Company and the advancement of techniques.

Interpreting the photos was of course a major task as many of them had not been annotated and I was forced to seek help to write a story about them.

However, I was lucky; a call to Bill McDowell and I had my man. After a few minutes looking at the photos, Bill was quickly transported back some 34 years (he started with the Company in September 1927) and was soon reminiscing about the very early construction days.

My thanks to Bill and incidentally, any other of the old hands who would like to have a look at the collection (I have produced only a few here) are welcome to do so.

Well, let's take a look at these masterpieces.



Firstly, here's an early shot (7th Jan. 1928) of the hostel or boarding house as it was called in these days. The building in the foreground was taken to the coast in the depression days. The rear building is our present hostel.



Here's a view of the machine shop and present day store with the hostel in the far background. In the middle background can be seen the logs hauled up by bullock teams for milling on the site.



Another view of the machine shop, and on the right the loco shed under construction.



Now here's a gem! The excavation for the cement silos — by pick and shovel!!

Scanned



And the general office in the bare state — a far cry from the beautiful surroundings of to-day.



One month later! The pick and shovel boys have completed the silo excavations.

Well, I'm afraid that we haven't room for any more, but I'm sure you'll find these few extremely interesting.

Thirty four years is not so long really, but what a great change has taken place. The only thing that detracts from the time factor in these photos is the stately gum tree just

behind the general office. It was a proud tree then and there is very little change in its graceful lines to-day.

Until next issue,

Yours,

The Editor.

A 10,000,000 Acre Garden

Each year, beginning late in August, nature's magnificent floral carpet unrolls across a landscape of 10,000,000 acres in the southwest corner of Australia. As the warming rays of the spring sun follow the winter rains, a splendid and crowded display of wild flowers bursts in to bloom across the plains and rolling uplands. There are well over 6,000 varieties of flowering plants. Most of them are not found elsewhere in the world, and many are unusual in form and character. This immense natural garden is attracting more attention to-day than ever before. Just looking at the strange, new and excitingly beautiful flowers can provide a wonderful kind of enjoyment. Seeing flowers as they grow in such profusion and finding new types can be fun. And for the scientifically minded it is doubly exciting, for they get a bonus in knowledge.

From Australia's populous eastern states it is easy to fly or go by train across the continent and then join conducted tours to parts of the vast natural garden. Travellers may have their automobiles carried on the train with them, so that they can drive through the wild-flower lands.

Australia's southwest has long been recognised by botanists as the earth's richest treasure house, because of the variety and interest of its flora. It is an ancient tableland, the oldest land of an ancient continent — in fact, one of the primeval land surfaces of the earth. Geologists explain that this section of Australia came into being about 1,500,000,000 years ago, underwent changes for perhaps 700,000,000 years and then remained virtually unaltered. Its surface crumbled into soil or was thinly covered and protected by wind-blown sand, and in later ages plants in countless numbers clothed the landscape.

Australia became isolated from the rest of the world some 50,000,000 years

ago, when the land bridges disappeared, and since then the plants have remained in isolation and have developed in their own peculiar ways. They have adapted to a dry land with uncertain rainfall. Known as xerophytes — drought-resisting plants — they have developed means of conserving moisture. They can withstand arid climates or periods of drought and can grow in poor or porous soils. Some of the main wild-flower areas are in the 8-inch to 12-inch rainfall belt. After the winter rains, annuals spring up, gather the fleeting moisture and flower quickly in the warming sun of September when the mean temperature is about 60 degrees Fahrenheit. The perennials, generally larger and in some cases the size of small trees, soon burst into bloom in challenge. Even the larger trees flower profusely in brilliant colours.

The grand display lasts for about two months. During that time there is constant change. Ultimately every plant, from the tiniest to the largest, blooms. A new aspect is seen on returning over the same road after only two or three weeks; plants that were nondescript have been transformed into jewels of colour, and another group may have broken into bud. Motorists do more than window-shop in the great floral area. Again and again they stop and photograph the general scene, single plants and even individual blooms. From the wide-screen panorama to the close-up view of individual flowers, the interest is held. Clumps of bushes that at first are merely masses of colour resolve themselves into many individual blossoms of transcendent beauty; the star-dust carpets break up into innumerable plants and myriad flower heads. If they wish, visitors may pick bunches of the flowers (except for a few, specially designated species that are rare).

(Continued on page 10)

APPRENTICESHIP WEEK

Apprenticeship Week was observed throughout S.P.C. with numerous functions taking place.

On Monday, 24th September, thirty four Company Apprentices were conducted to Wollongong to attend the Trades Exhibition held at the Wollongong Town Hall Annexe.

All trades were represented at this exhibition which was organised by A.I.S. Ltd. with local apprentices displaying their craftsmanship with many and varied exhibits.

The photos below show our apprentices outside the Hall and also one of the exhibition stands.

On Friday, 28th September, Marulan Quarry apprentices were hosts to relatives and friends on a conducted tour of the Quarry. Afternoon tea was served following a film in the Community Hall.

Pictures taken during the tour appear on pages 7 and 8.

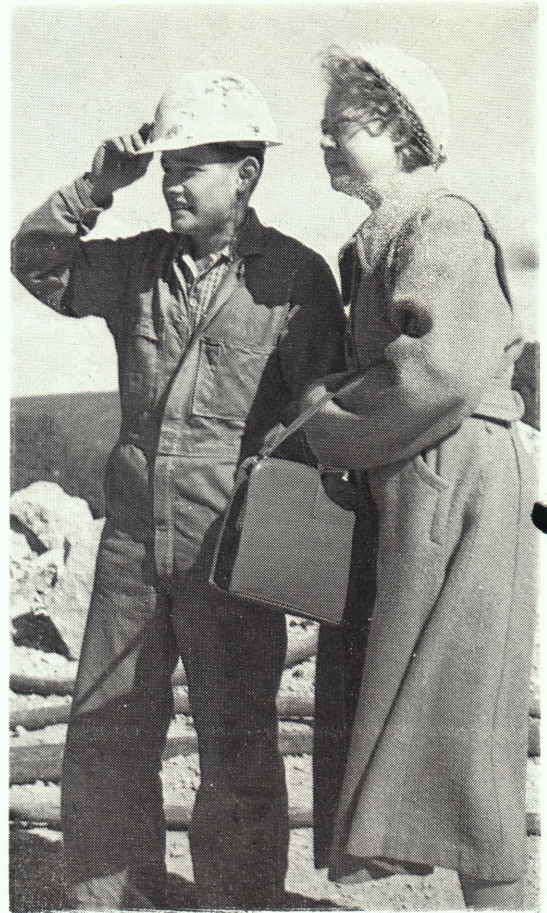
On Saturday, 29th, a similar function was held at Berrima with close on 100 relatives and friends attending.

Some humorous scenes were to be seen when the visitors were inspecting the Works.





Phillip Carey seemed to be amused by his mother and sister-in-law who were gingerly feeling their way along No. 4 Kiln walkway. No claims for a new pair of gloves please Joan!



Bob Magnus and wife (above) spent about five minutes negotiating the kiln steps and as you can see Mrs. Magnus was having a certain amount of trouble.



We sincerely hope that the visitors enjoyed the day and we look forward to seeing them again next year.

**SAFETY
FIRST**

Hard Hat Prevents Serious Injury

A Case History from the Quarry

One of our most ardent supporters for safety first is Mr. Gordon Bryant, an Air-trac Drill operator at Marulan Quarry, who during the month was subjected to a nasty accident which could have been serious, in fact, it might even have been fatal had he not been wearing his SAFETY HAT.

Gordon was performing his normal duties at the base of a small bank where he was drilling holes in preparation for blasting. Whilst manipulating the end of the drill he was suddenly smashed to the ground by a 34 lb. rock which had become dislodged from the top of the face, rolled part way down,



Working at the Face

then bounced a good 6 ft. directly onto his head. The force of the blow drove the hard hat down over his head with sickening force and in his own words he felt that he was killed for sure. However, after removing the hat, which incidentally was unmarked except for a slight scratch, he found to his amazement that he had sustained only a small laceration to the scalp, probably caused by the harness inside the hat, and that the constricting effect of the harness being forced over his head had in fact given rise to his immediate misgivings about the extent of his injuries.

In a personal interview with Gordon, I was impressed by his forceful statement that until this event he had treated SAFETY as just another part of his every day job but that from NOW ON he was CONVINCED that SAFETY SHOULD BE EVERYWHERE ALL THE TIME. In his opinion he

owes a lot, if not his life, to his hard hat and no doubt Gordon will place it first on his list of safety items—might even find a place for it on the mantle-piece Gordon when you retire!

Well, this is just another case-history of accident prevention and we urge all of you to benefit from Gordon's experience.

Below are pictures taken at the site of the accident.

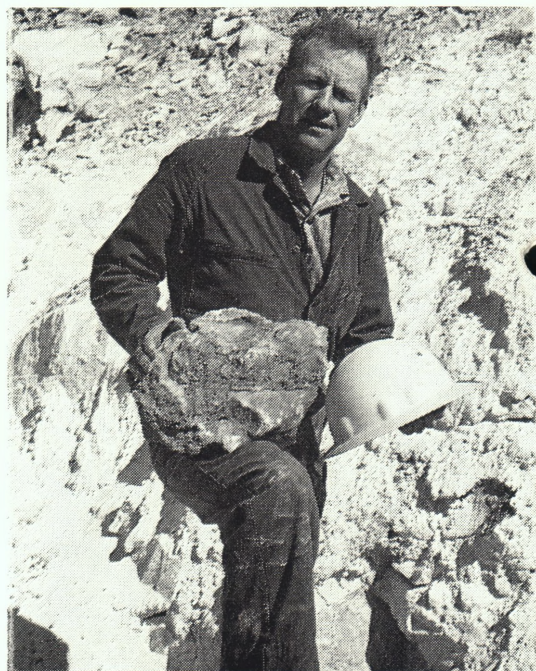


The Slope

A 10,000,000 Acre Garden

(Continued from page 5)

The total area over which wild flowers grow in profusion is between 10,000,000 and 15,000,000 acres, varying from year to year according to the extent of the winter rains. The floral carpet unravels to a fringe toward the north, where the rainfall declines steadily. Sometimes abnormal winter rains transform even the desert, and there are only a few limited areas in which wild flowers will not spring into being at some time. This is true elsewhere in Australia as well. The entire continent is a botanical wonderland. Thus far between 10,000 and 11,000 species of Australian flowering plants have been named, and even after some 200 years of collecting, new species still are occasionally recorded. With more than half of all the Australian flower species concentrated within it, the southwest corner is the most remarkable area on the continent, and from a botanical point of view it is one of the most interesting areas of the world.



Gordon with his rock!!

Personal Pars

Heard on the Grapevine

BERRIMA

Bob Magnus, who recently attended a Civil Defence Rescue Instructors' Course at the Commonwealth School at Macedon, Victoria, was the recipient of a certificate of high merit during the month.

Bob had some misgivings when he sat for the exam. during the last day of the course and was really sweating it out whilst awaiting the result.

Works Manager, Mr. L. C. Knight, in presenting Bob with the certificate, had his little bit of fun, knowing Bob's anxiety in the matter, but as you can see from the picture, all was well and Bob was a very happy Rescue Instructor. Congratulations Bob! We know you put a lot of effort into the job.

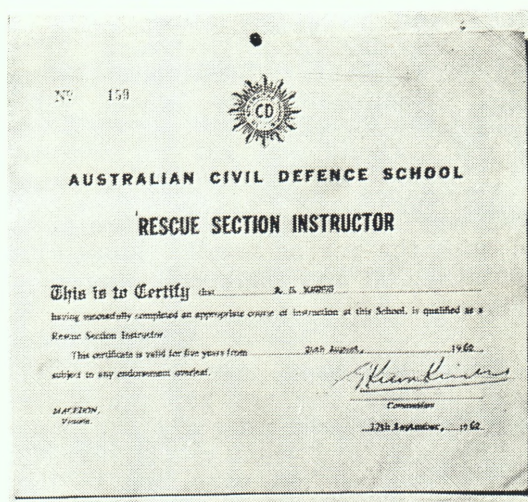


Wedding bells sounded for Harry Stephens (Lab.) on 1st September, when his marriage took place to Miss Lorraine O'Keefe, sister of Denis O'Keefe (Gen. Office). The marriage took place at the Presbyterian Church, Old Berrima, and following a caravan honeymoon touring the South Coast the couple returned to Old Berrima where they plan to make their home.

Congratulations and best wishes for the future to you both.

Rus Greaves is at present on Annual Leave. Rus and Mrs. Greaves are holidaying on the South Coast where Rus can get first hand information for his fishing notes. Rus recently acquired a new model caravan and only took delivery of it the day before he left on his holiday.

Good fishing Rus!



The engagement was announced during the month of Miss Lynette Waide and Terry Snowden. Lynette is the daughter of Tommy Waide (Elect.) and Terry works at the Stockhouse.

Congratulations Lynette and Terry!

The stork visited two of our employees recently.

On 1st October, Owen Fairbairn and wife were presented with a son.

Mr. and Mrs. Russell May were also presented with a son — sorry, no date Russell!

Congratulations to both these families.

MARULAN

Wedding bells pealed for the wedding of Marjorie Shepherd and Rex Izzard at Five Dock, Sydney, on September 22. Marj. is the elder daughter of Mr. and Mrs. Tom Shepherd, of Marulan South. Her brother, Cliff, was best man. Tom is the gardener at the Quarry, Rex is a Euclid driver and Cliff the crane driver.

—*—

The Cosgrove family celebrated the Golden Wedding anniversary of their parents, Mr. and Mrs. Mick Cosgrove, in Marulan South Hall on September 15. Those present included sons, Vince, Tony, Mick, Geoff (Marulan South), Elton (Goulburn), Jack (Gunning) and daughters Olive (Mrs. S. Bell, Marulan South), Grace (Mrs. Francis, Goulburn), Tory (Mrs. Billingham, Crookwell) and Mavis (Mrs. Brewster, Merrylands).

—*—

Ambulance dance organisers Jim Galloway and Alice Rowley were pleased with the recent result. More than 150 attended and the result was about £40.

—*—

Jerry Matthews, one of the keen local anglers, has not had much luck lately. Jerry was up early one morning recently and went to his favourite fishing ground. He was just in time to catch some poachers with cages and other illegal equipment such as explosives. Definitely not the right thing to do, and many share Jerry's view.

—*—

Apprentice Eddie Cooper is tuning up his drums and hopes to form an orchestra before the Festive Season.

—*—

Camp steward Jim Keegan has returned from a fishing holiday near Sydney. He also spent a few days in the Sydney jungle to meet old friends.

—*—

Welder Stan Bell underwent an operation in Goulburn Base Hospital a few days ago. He expects to be back with his oxy torch early in November.

Bob Phillips, formerly a Euclid driver, who returned to England after several years in Australia, told friends in a letter that he is settled into his old hometown in Yorkshire and has a job driving. His one regret at returning home is that Australian beer is not obtainable at his local tavern.

—*—

Apprenticeship Week at the Quarry was quite successful. Apprentices Graham Tilley, Myles Creswick, John Jervis, Noel Steffensen, Merv Henderson, Eddie Cooper, Wayne Percival and Ian Mackey (on loan from Berrima) went with the Berrima lads to an industrial exhibition at Wollongong. Later in the week, parents and friends visited the Quarry for a film showing, an inspection of the quarry and workshops.

—*—

Assistant Maintenance Foreman Keith Graham and family have settled into their new home at Marulan South. Their children soon made friends with the locals and Keith and Peggy have joined in the sporting fixtures and social life of the village.

—*—

Two local lads, Peter Galloway and Barry Murphy, attended the National Fitness Camp at Lake Macquarie.

—*—

Lloyd Shoobridge, after an absence of about 25 years, is back at the Quarry. In those days, he spent many happy evenings singing to his friends. One of the favourites was "It's Just a Little Street Where Old Friends Meet." Since many of his old friends are still working at the Quarry, that same song is as appropriate now as it was then.

—*—

David Cooper and Elizabeth Stanford have announced their engagement. Dave is the son of local businessman, Les and Mrs. Cooper, and Elizabeth the only daughter of Mr. and Mrs. J. Stanford, of Marulan.

—*—

Driver Norman Pole has left the Quarry to settle in Brisbane where he lived several years ago.

Selby Wells, doyen of Euclid drivers, and a keen home gardener, is working hard at a secret rendezvous on a plot of ground to grow the finest vegetables for next year's round of agricultural shows. He's been a very successful exhibitor in past years and hopes to make 1963 a memorable one.

—*—

Plans have been made for the annual school sports at Windellama on October 27. Children from Marulan, Bungonia and Windellama will compete. About 40 youngsters from Marulan South will attend.

—*—

We extend sympathy to the Hargrave family of Tallong following the death of Mrs. Hargrave, senior, at Goulburn on September 22. George is a fitter at the Quarry and John a second year apprentice carpenter.

SYDNEY OFFICE

We are all happy to see Miss Helga Atkinson back in the office again after quite a severe attack of pneumonia. Although the girls did a wonderful job during her absence I think everyone is willing to admit it was "mighty tough" without her experience and know-how.

—*—

Sydney Office has gained another bright, happy faced teenager in Denise Vidulich, who commenced with us on 12th September. Denise has just finished a year at Business College and looks like being a very helpful addition to the staff with all our new accounting machines arriving.

—*—

Another person who has been very much on the sick list is Harold Ball, our Miranda storeman who has been in hospital for the last month. We all hope he will be on his feet and his own happy self in a very short time.

Let's Laugh

Surprise Packet

Lounging alongside his sombre but respectable relatives, the playboy nephew fiddled restlessly and gazed in boredom at the ceiling while his wealthy American uncle's will was being read.

At length, when hearing his own name mentioned by the solicitor, the young man sat bolt upright, eager and concentrated for once in his dissolute life.

"And now to my nephew Harry, whom I promised to remember. . . ." (the playboy was by now mentally folding the "lolly") ". . . . Hi there, Harry!"

—

Barber to beatnik: Would you like a haircut sir?

Beatnik to barber: Definitely no. All I want is the oil changed.

A noted psychiatrist was a guest at a dinner party, and his hostess naturally broached the subject on which he was most at ease.

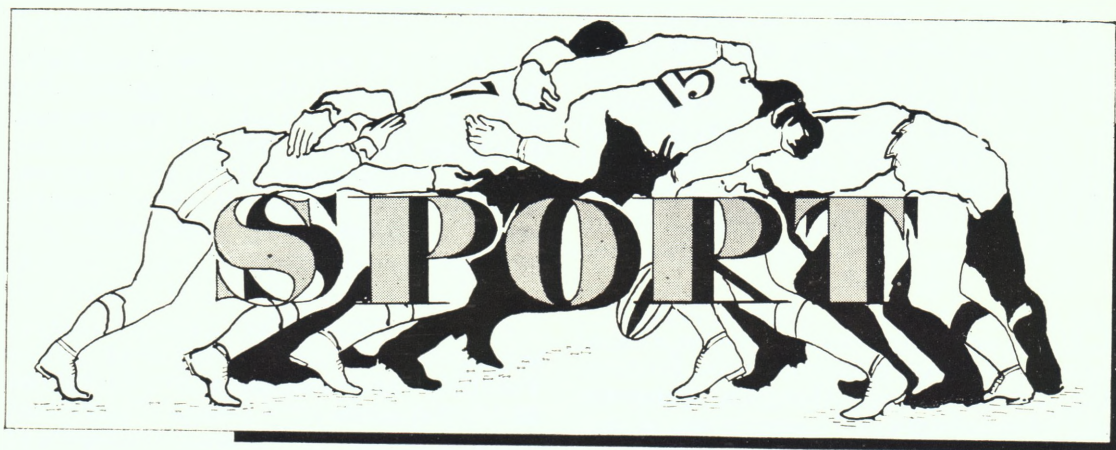
"Would you mind telling me, Doctor," she asked, "how you detect a mental deficiency in somebody who appears completely normal?"

"Nothing is easier," he replied, "You ask him a simple question which everyone should answer with no trouble. If he hesitates, that puts you on the track."

"What sort of question?"

"Well you might ask him, 'Captain Cook made three trips round the world and died during one of them. Which one?'"

The hostess thought for a moment. Then with a nervous laugh, she said, "You wouldn't happen to have another example, would you? I must confess I don't know much about history."



Football by Kevin Moore

The 1962 season came to an end with the minor premiers in both first and second grades winning their matches as predicted earlier. Picton had no trouble in defeating Moss Vale in the second grade match and in the first grade match Mittagong were very lucky to defeat Campbelltown, who lost one of their forwards. This occurred after twenty minutes play when referee Hird saw the player throw a punch equal to any seen at the Sydney Stadium.

McDonough, the Campbelltown coach, was forced to go to the wing when injured by a hard tackle by Bill Verhaeghe. This left Campbelltown with a severe handicap.

Berrima football club members, joined by members from Mittagong and Moss Vale, had a very enjoyable day when they visited Sydney for the grand final. Although rain spoilt the football it was a very enjoyable day.

Berrima will be holding their presentation night dance on the 2nd November when the trophies will be presented for the 1962 season.

Congratulations are being received by our president Arthur Bender and Nance Hartley on their marriage at Moss Vale on the 29th September. The

whole club joins in congratulating this popular couple and wishing them all the best for the future.

On Friday night, 28th September, the Berrima football club held a quiet evening where a presentation was made to Arthur on behalf of the Berrima football club. Supper was served and a nice evening was had by all.

Bowls

State championship games continued throughout the month of September and S.P.C. still has representatives in all events.

Fred Armstrong, last year's District Singles winner, has now reached the last four in the Southern end of our District.

Pairs have not as yet commenced. In the Triples Len Knight's team reversed the tables on Alwyn Counsell's team, Alwyn's four having eliminated Len's four, winning by one shot after playing an extra end. Len and his boys, including Bill McDonnell of the Colliery, are now in the last eight.

The fours as mentioned in last edition have reached the final two.

The Moss Vale Trophy is again under way and, following the usual pattern of bowls, surprise results are cropping up quite frequently.

Biggest upset was the defeat of a crack Moss Vale four at the hands of Johnny Fuller's four. John hasn't played a lot lately but was evidently back to his best. Jim Colquhoun was his lead and paved the way for the win with very accurate leading.

I did hear it said that Paddy Moran was almost ready to play bowls—be in it Paddy! You don't know what you are missing.

Mixed days throughout the month met with some nasty weather but Bundanoon did manage a good day and once again S.P.C.-ites were glad of the opportunity to let their wives give them a hiding on the green.

I thought a month had gone by without a win being registered by the Galloway family, but twas not to be. At Bowral carpet bowls during the last week Sandy and Mrs. G. managed to get in the same team and landed the bacon.

Rifle Shooting

Marulan riflemen have issued a challenge to Berrima for a match to be held in the near future. Final dates have not been fixed but each team will be notified as soon as arrangements have been completed.

The match will be shot over the 300, 500 and 600 yard ranges and the two teams to compete are as follows:

MARULAN: T. Pearson, N. Shepherd, D. Taylor, F. Bell, B. Barnfield, S. Bell, F. Weston, G. Bryant.

BERRIMA: J. Lockwood, J. Tickner, A. Parker, T. Saker, M. Toomey, D. McLaren, B. Fletcher, M. Hauber.

The first match will be conducted at the Berrima Range with a return match to follow at the Marulan Range.

Fishing Notes

Having arrived at Shoalhaven Heads all is ready for the big push!

At hand there is half a bag of pippies and a tin of yabbies! So far have had no luck with one afternoon's fishing.

One of the local piscatorial maniacs, Stuart Smith, tells me there was a fishing competition on Saturday. The outcome was that his wife landed a prize for the best bag of bream. Incidentally, Mrs. Smith is quite a hand at landing these bream. Our old benefactor from Comerong Island, Toby Bryce, landed the prize for the best bream. I understand things were not going too well, so he decided to put his 2½ pounder in. This was the winning fish.

A party over the week-end caught only 7 medium sized bream and flathead — which does not indicate much in the fishing line (!) at the moment. The highlight of the contest was a lad's "largest fish." A 27 lb. schnapper off the rocks near Honeymoon Bay.

How would you like to be pulling that in through the waves or the rocks boys?

A few folk have caught a few bream and flathead. The flathead I saw a bloke take home yesterday wouldn't fit into a sardine tin!

Talking to an old hand on the beach this morning I was greeted with, "they don't bite like when I came here 21 years ago!" The gentleman, who informed me he was 76, came here for two weeks 21 years ago — there must have been good inducement for him to stay all that while.

The old salts tell me fishing will be more or less at a standstill until the N. Easters blow for awhile. I might be inclined to agree with them. Crabs are bad at the moment. As a matter of fact, I've experienced that before too. If any one could invent a bait that fish would tackle and crabs wouldn't, his future would be made.

Although there are no bright fishing spots at the moment, the Caravan Park

has every amenity, clean, and looks very grassy and nice. Plenty of shade trees too. It's a good place for children — very safe.

Anyone who has done a bit of bird watching (fair dinkum!) would be in their element here. The birds are very nice. The common old seagull never fails to interest me — with his beautifully streamlined grey and white body and rude red legs!

Fishing Licence

The open season for trout commenced on September 1st, and extends to April 30th. When fishing on inland

waters — embracing all rivers and creeks above the influence of the tide and all freshwater streams, lakes, dams and reservoirs — it is necessary to obtain an inland angling licence. The cost is £1.

Inland fishing licences are available at the Touring Department at N.R.M.A. head office, Sydney, and at their Newcastle branch, Hunter Street, Newcastle. Arrangements can also be made for a licence to be obtained through N.R.M.A. metropolitan branch offices. They are also available at the C.P.S. office, locally.

A licence is not necessary for persons under the age of 16 years.

N.R.M.A. Motoring Notes

Warning on Tyres

N.R.M.A. General Secretary, Mr. H. E. Richards, to-day said that his Association was becoming increasingly concerned with the number of smooth tyres on vehicles. He said that the traffic regulations laid down that a tyre must have a clearly visible tread pattern on all parts of it but that some vehicle owners were ignoring this requirement.

"Our experience in insurance smashes leaves no doubt that one way of inviting major disaster is to travel on tyres which do not have an adequate tread," said Mr. Richards.

"We have been shocked at times by the almost criminal disregard for safety that has led to extremely severe damage and injury. The yards of our insurance smash repair premises are rarely without examples of what can happen when a vehicle gets out of control due to skids and blowouts, and on very many of the vehicles involved in the worst smashes, smooth tyres are commonplace."

Mr. Richards said that whilst the purchase of new tyres or retreads could

involve a considerable monetary outlay, vehicle owners must realise that the use of poor tyres constituted a danger, not only to themselves, but to other road users who might be innocently involved in the event of an accident. He pointed out that insurance companies could refuse to meet a claim where the vehicle involved was being used in an unsafe condition and that this included smooth tyres.

"In any case, it is a false economy to run a vehicle with poor road grip," said Mr. Richards. "Apart from the substantially increased chance of being involved in an accident, it costs more to run such vehicles because mileage per gallon is less due to wheel-slip. Additionally there is much greater wear on brakes when endeavouring to slow or stop a vehicle which does not have good road grip."

HEADLIGHTS IN THE RAIN

Many motorists have probably noticed that their headlights do not seem to be nearly as brilliant when driving in the rain as they should be. The trouble is due to the diffusion of the raindrops that collect on the glass.

Each one acts as a tiny lens, and the rays that should be directed toward the road in front are reflected in every direction except the right one.

N.R.M.A. engineers advise that if the headlight glasses are wiped with a rag that has been moistened with glycerine, the rain will not collect in drops, but will spread evenly over the glass and will not affect the lights to any great extent.

SPRINGTIME IS PLAYTIME

With spring here, longer daylight hours mean more time to play after school for the kiddies.

The N.R.M.A. urges motorists to show greater care when driving near playgrounds and athletic fields during times when they may be used by children.

Youngsters go about their play with great single-mindedness and often pay little attention to where they are playing. It is up to the motorist to watch out for the playing child.

RESTRICTIONS ON LIGHTING FIRES

Bushfire restrictions commenced on October 1st.

Open fires for cooking purposes (picnics, camping, etc.) may be lit only in properly constructed fireplaces located not less than 15 feet from any tree or scrub. The area around the fireplace should be cleared for a radius of five feet.

These regulations will remain in force until March 31st next.

Gardening Notes

By. Mrs. C. Crowe



for October

FLOWERS

Sow: Amaranthus, Antirrhinum, Aster Balsam, Coreopsis, Celosia, Dahlia, Carnation, Dianthus, Eschscholtzia, Gaillardia, Helianthus, Gomphrena, French and African Marigolds, Phlox Drummundi, Petunia, Portulaca, Salpiglossis, Salvia, Scabiosa, Sweet Pea, Zinnia. In glass-house or glas frame, sow seeds of Coleus, Gloxinia, Tuberous Begonia.

Plant: Achimene, Agapanthus, Canna, Gladioli, Kniphofia, Japanese Iris, Tuberose, Tuberous Begonia; also Phlox, Petunia, Antirrhinum, Delphinium, Dianthus, Carnation, Verbena.

VEGETABLES

Sow: Beet, Butter Beans, French Beans, Carrot, Onion, Peas, Parsnip, Parsley, White Turnip, Cabbage, Celery, Capsicum, Leek, Tomato, Cress, Lettuce, Mustard, Radish.

Plant: Herbs, Tomatoes (in protected areas).

Dig out any plants which have finished flowering and get ready to plant summer-flowering annuals, such as Phlox, Petunia, Portulaca, Verbena, this month.

Use dwarf shrubs in the garden for a permanent background for annuals. These are available in a number of varieties and colours.

The first sowings of French and Butter Beans can be made about the middle of this month, and from then on at fortnightly intervals, to keep up the supply of these vegetables.

Tomato plants can be planted out now, but watch and cover them, if it looks like frost.

Start planting pumpkins, cucumbers, marrows, etc., about the end of this month.

Put out some snail bait, as young snails are already eating their way around the garden.

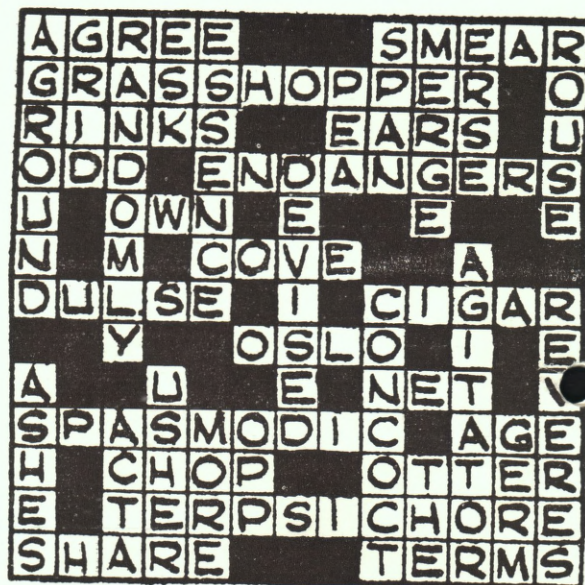
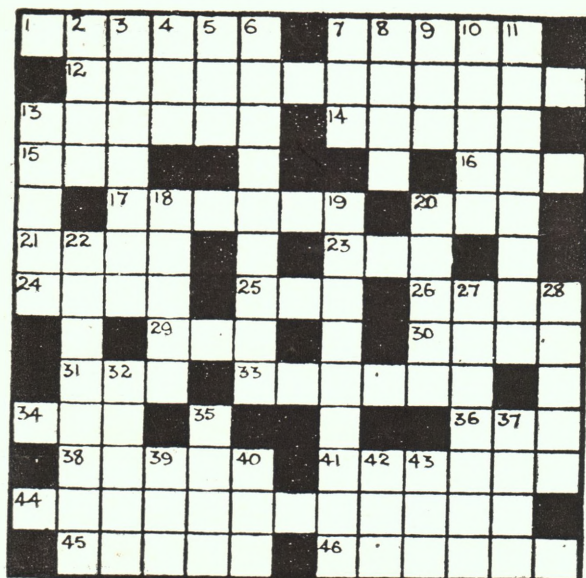
— Problem Page —

The result of Problem No. 43 is shown at right. Some of our contestants were caught on the spelling of one word. Winner was Tom Sharkey, of Marulan. Congrats. Tom!

PROBLEM No. 44

Across

1. Compels
7. Fat
12. World's highest peak
13. Go back
14. Combining form for English
15. Writing fluid
16. Limited (Abbr.)
17. Make dear
20. Direction
21. Jot
23. Devour
24. Clean
25. Plant juice
26. Grand
29. Past
30. Curved structure
31. The sun
33. Used when sewing
34. Possessive pronoun
36. Knock lightly
38. Travels
41. Folding frames



44. Source of power
45. Dull
46. Offer

Down

2. Sign
3. Fireworks
4. Hint
5. Terminate
6. He died in Samoa
7. Eggs
8. Curved
9. Unit of Work
10. Exchanges for money
11. Confidential
13. Stiff
18. South African province
19. Appear for
20. Pilfer
22. Surpass
27. Feign
28. Fried potatoes
32. Genus of willow trees
35. Prices
37. On the sheltered side
39. Military medal
40. Crafty
42. Grow old
43. Evil doing

PS

SPC

Vol. 4, No. 11

NOVEMBER, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY

General Manager's Notes

At the Annual Meeting of the Cement and Concrete Association held in Melbourne during the last week of October, Mr. A. A. Parish, our Chairman, was elected President of the Association for the ensuing year, which is a big honour for the Company.

The main object of the Association is to promote the use of cement and concrete and to do this it employs a staff of qualified engineers in Sydney office who are available throughout Australia at any time to give technical advice to architects, builders and other consumers on the most efficient way to use concrete.

The Association also provides pamphlets on how to lay paths and do other concreting work around the house and farm, which is handy for the man who only uses cement two or three bags at a time.

Sales promotion is going to play a more important part in the Association's activities in the future both to increase the per capita consumption of cement and to hold our ground against aggressive promotion by competitive materials such as timber and steel for buildings and bitumen for road making.

GENERAL MANAGER.

S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

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• COPY DEADLINE

1st of the Month

Vol. 4, No. 11.

NOVEMBER, 1962

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— Departmental Representatives —

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES	Mrs. C. CROWE Berrima
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Editorial

Dear Readers,

Our regular Editor, Mark Hauber, met with an unfortunate accident during the month so this magazine is going to press without his expert guidance. I hope you will forgive all errors.

I would like to mention that Mark's injuries, although very severe, are much better than first reported, and with the good side of the accident in mind, I must present the first verse of one of A. B. Patterson's poems. Mark Jones assures me it was written with our Editor in mind:

" 'Twas Mulga Bill, from Eaglehawk,
that caught the cycling craze;
He turned away the good old horse
that served him many days;
He dressed himself in cycling clothes,
resplendent to be seen;
He hurried off to town and bought
a shining new machine;
And as he wheeled it through the
door, with air of lordly pride,
The grinning shop assistant said,
'Excuse me, can you ride?' "

I need not quote any more because you have already guessed it, Mark and Mulga Bill have a lot in common, both left their machines in mid air.

✓ In our last issue some photographs of our Works, taken in 1927-28, were shown, one depicted horses, drays and men working on the foundations of our present cement silos. Well, I have unearthed one of our fellow workers who owned one of the horses and drays, and could easily be in that original photograph.

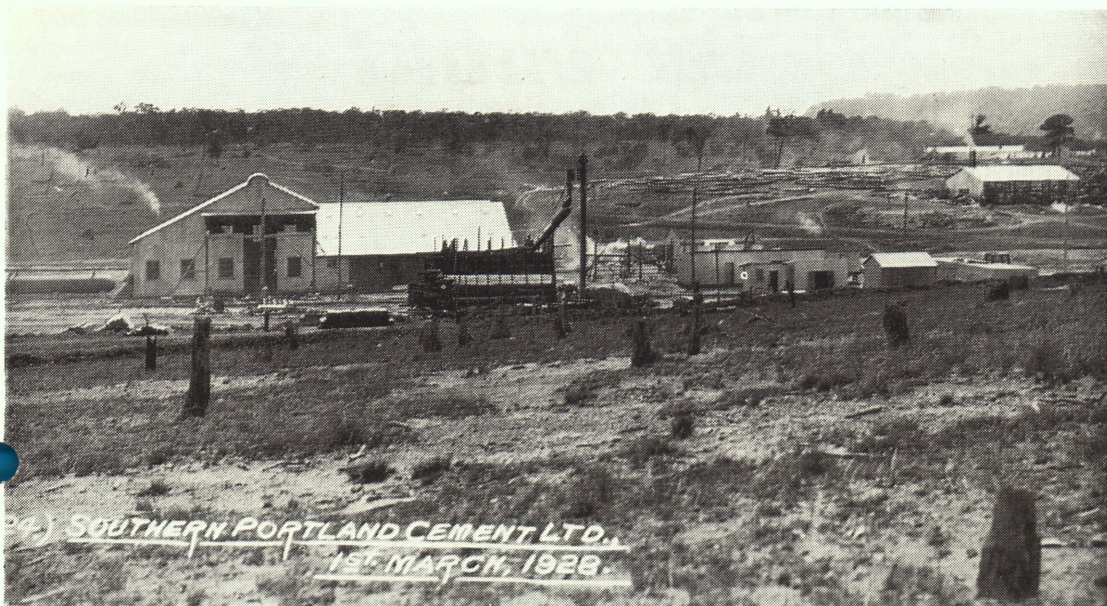
You all know him, Bill Mitchell. Bill came to S.P.C. in 1927, having worked on the construction of Parliament House in Canberra. He has seen our Works grow from that hole in the ground to its present size. Although he did leave the Company for a short spell, he has now been with it for the past 21 years.

A photograph taken recently shows Bill standing in front of the wash mill building where he has worked for many years.

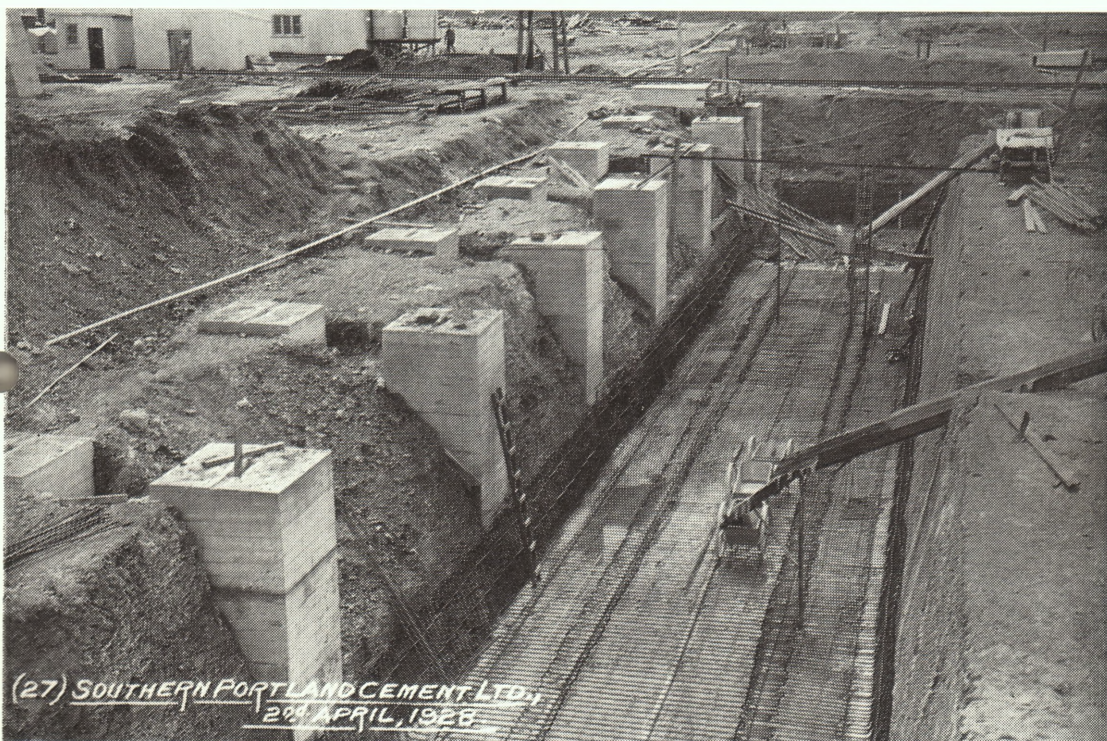


Bill Mitchell as he is to-day.





Another photograph from Mark's collection of old prints shows the Works with the old saw mill which, in the early days, was almost as big as the rest of the Works. According to one of our old employees, the only thing original is the old pressure cylinder.



Look at the size of this excavation and it was also done without the aid of present day bulldozers and excavators.

No doubt Mark has quite a lot of these old "beauties" to show you, so I will leave them until next issue. Yours, Acting Editor, ALWYN COUNSELL.

Our District

It is amazing the small amount of this district, a district renowned for its tourist attractions, that has been opened up to the general public.

We have our Fitzroy Falls, Bundanoon Gullies, Mount Gibraltar, Macquarie and Barrengarrie Passes, but how many of us have seen anything of the country housing the headwaters of the Shoalhaven River.

Until recently this country, which lies roughly between Tallong and the sea, was inaccessible to all but hitch hikers. Now it has been declared a portion of Mark Morton Reserve and

an animal sanctuary. Efforts are well in hand to make it really accessible to vehicles.

Travelling almost due south from Tallong one passes old Cauora Station and it is from a point approximately three miles past this landmark that the scenery really becomes magnificent.

The work of opening up this country is not easy, as can be seen in the photograph below, which shows how the road has been blasted out of sandstone. A point of warning here to would-be motorists — at present the last three miles of this road are only suitable for four-wheeled drive vehicles.



Some idea of the ruggedness of the country and steepness of grade.

The road, as well as opening up new scenery, serves the very useful purpose of being a fire road. It leads past a helicopter pad which has been established for use in times of emergency, and finally terminates near the junction of the Bundanoon and Kangaroo Rivers.

Some of the splendid scenery is shown in these two photographs. One shows a view of the Shoalhaven River

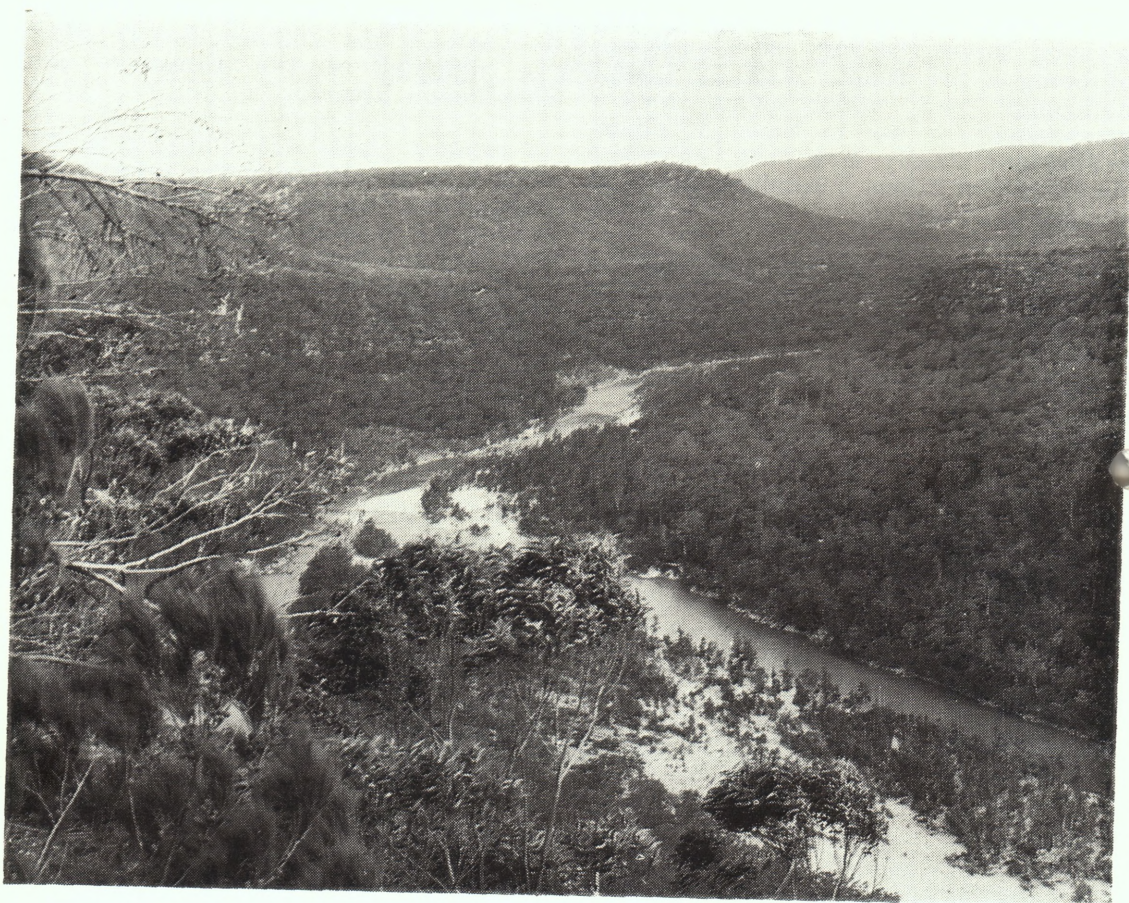
looking down from a point 1000 feet above it, whilst another clearly shows the junction of the Kangaroo and Shoalhaven Rivers.

In time the Reserve Trust hope that the surface of the road will be improved to such a degree that tourists will find this beautiful spot equally as good for "outings" as any of our other famous spots.



A sheer drop of 1000 feet.





Junction of Kangaroo and Shoalhaven Rivers.

Let's Laugh

Who ever it was who first called women the fair sex, didn't know much about justice.

A young lady, telephoning a music store, was connected with a garage by mistake.

"Do you have 'Two Red Lips and Seven Kisses?'"

"No," came the reply. "But we have two tom cats and seven kittens."

"Is that a record?" she asked.

"Well," said the garage, "we think it is."

The reporter was interviewing the 103 year old man.

"Is it true," the reporter asked, "that your 84 year old son eloped with your housekeeper?"

"I'm afraid it is true," the old man answered soberly. Then he added apologetically, "He's just a crazy, mixed up kid."

Said the irate wife to her husband: "Maybe all husbands do err now and then, but they don't err with the sort of 'er I 'eard you erred with!"

Plant Jottings

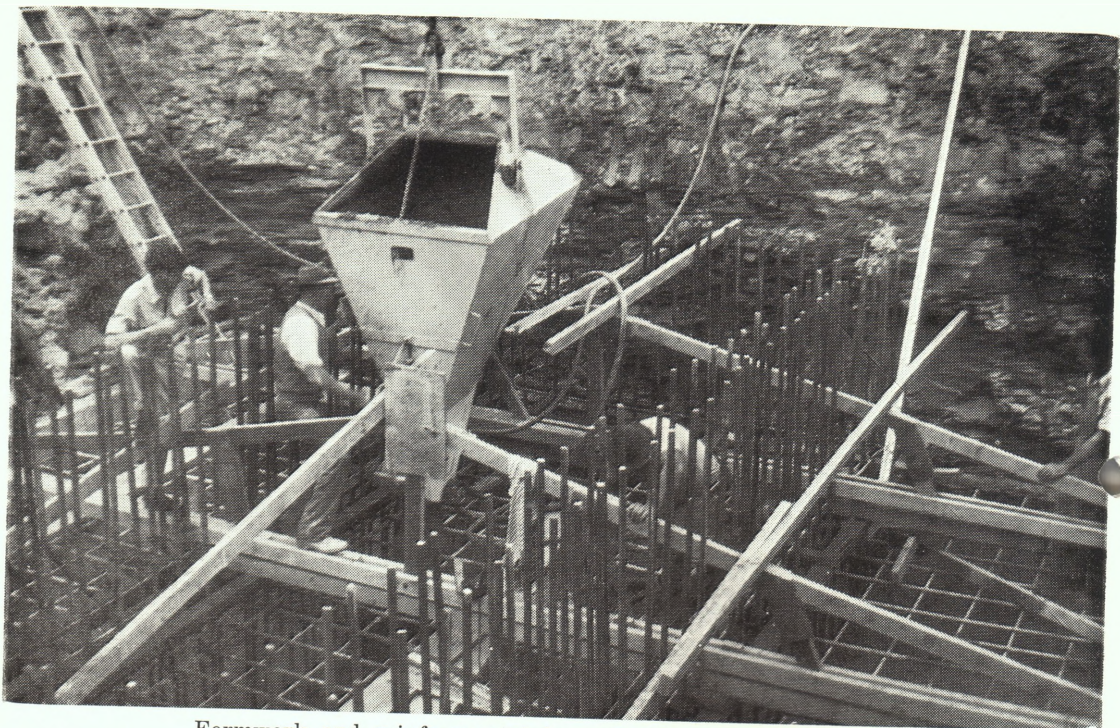
Berrima

Having shown some of the old photographs and methods of handling material some 35 years ago, we can almost breathe a sigh of relief when we look at the preparations going ahead for the installation of No. 5 Kiln, knowing that the back-breaking jobs, such as excavating, are done by man operated machines, not just man.

Firstly, the holes are dug and earth removed by mechanical shovels, then, as shown in the following photographs, all concrete is supplied ready mixed, delivered by lorry, lifted into place by a mobile crane, and poured with just the lifting of a lever. The photographs taken show some of the equipment now being used.

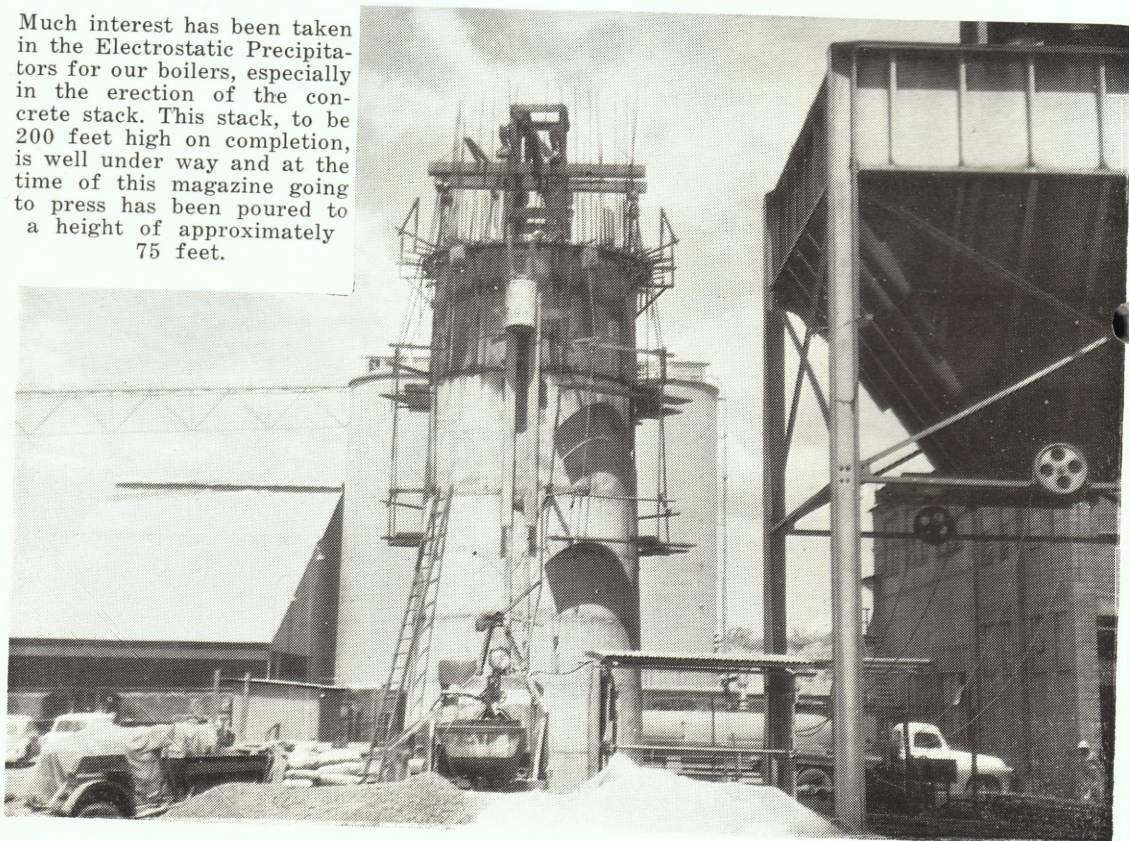


The above photograph shows a mobile crane at the edge of one of the No. 5 Kiln foundation excavations. With it is a ready mixed concrete mobile hopper.



Formwork and reinforcement in position ready for pouring.

Much interest has been taken in the Electrostatic Precipitators for our boilers, especially in the erection of the concrete stack. This stack, to be 200 feet high on completion, is well under way and at the time of this magazine going to press has been poured to a height of approximately 75 feet.



Marulan

The overhaul of the Marion Electric shovel is really a man-sized job and having seen some of the parts pulled down it is a wonder they ever go back together again.

Our Marulan boys know the Marion well enough but it is a long time since they have seen it looking like this—propped up on timber.



Marion Cabin: Most of the understructure has been transported to Sydney.

The new Basic Oxy Store Quarry is now in full production following extensive preliminary development. Two Menck shovels are now operating in this area. The stone is being sent to Newcastle as a major raw material in

a special steel making process.

Stone from this area was sent to an International Geological Exhibition in London before the turn of the century and was judged as being amongst the best limestone specimens in the world.

Welfare News

Annual Picnic

Preparations are again well in hand for the Works Annual Picnic which will be held at Exeter Park on Saturday, 8th December.

This is the day when employees and their families get together and celebrate the Christmas spirit. Santa Claus will be there with toys for the children, and thanks to the hard working committee, there will be stacks of food and drinks during the afternoon.

This year we are having as our guests for the day a party of children from the Charlton Home at Bowral, and they will be joining in all our amusements.

Once again it is expected that the General Manager's trophy will be hotly contested. Tackling by executive officers will only be permitted should the competition become onesided.

Buses catering for those requiring transport will be run to the following timetable:

Depart

Mittagong 10.48 a.m.
Welby 11.00 a.m.
Old Berrima 11.25 a.m.
Moss Vale 11.45 a.m.

Arrive

Exeter 12.15 p.m.

Depart

Mittagong 11.15 a.m.
Bowral 11.30 p.m.
Moss Vale 11.45 a.m.

Arrive

Exeter 12.15 p.m.

Hot water will be available to those wishing to have picnic lunches.

Announcements will be made over public address system of Xmas Tree, afternoon tea and ice cream issue times.

Official cards must be presented at the Xmas Tree.

CHILDREN'S EVENTS

FLAT

100 Yards HANDICAP, 13-15 Boys.
100 Yards HANDICAP, 13-15 Girls.
75 Yards HANDICAP, 11-12 Boys.
75 Yards HANDICAP, 11-12 Girls.
50 Yards HANDICAP, 8-10 Boys.
50 Yards HANDICAP, 8-10 Girls.
50 Yards HANDICAP, 5-7 Boys.
50 Yards HANDICAP, 5-7 Girls.
25 Yards HANDICAP, 4 and Under, Boys and Girls.

GENERAL MANAGER'S TROPHY

Competed for Annually.

Machine Shop Holder, 1961-1962.

FLAT RACE—40 Yards—40 Years and Over.

FLAT RACE—50 Yards—26 to 39 Years.

FLAT RACE—85 Yards—25 Years and Under.

RELAY RACE—85 Yards—4 Men Team.

TUG-O-WAR—4 Men Team.

Points allotted as under:—

1st Place 3 Points
2nd Place 2 Points
3rd Place 1 Point

NOVELTY EVENTS

RELAY—8-10 Girls.
RELAY—8-10 Boys.
RELAY—11-12 Girls.
RELAY—11-12 Boys.
RELAY—13-15 Girls.
RELAY—13-15 Boys.
WHEELBARROW—8-10 Boys.
WHEELBARROW—11-12 Boys.
WHEELBARROW—13-15 Boys.
THREE-LEGGED—8-10 Girls.
THREE-LEGGED—8-10 Boys.
THREE-LEGGED—11-12 Girls.
THREE-LEGGED—11-12 Boys.
THREE-LEGGED—13-15 Girls.
THREE-LEGGED—13-15 Boys.

(Continued on Page 11)

Women and Civil Defence

Teamwork on a community basis is the key for community survival to-day—neighbours must be organised and prepared to meet the hazards of modern war. This can be most effectively done by propagating at all times the spirit of civil defence and by ensuring that everyone willing to do so is introduced to the civil defence ranks. The tremendous task of informing the general public and civil defence self-protection measures can be effectively brought about only by individual effort. This is a task for which women are ideally suited—by being effective saleswomen for the programme . . . by telling your neighbours and friends about the work and getting them interested in learning self-protection.

Tell them about the civil defence organisation, the special courses available and other information which will arouse their interest in civil defence, and in general by trying to be effective in convincing one's neighbour that she (or indeed he) needs self-protection and that the community needs her participation.

Those women members who have contact with local women's organisations should recognise too the opportunity for propagating civil defence which such contacts hold, and the women of the nation have much to contribute to this subject.

Safety

October was a black month for safety at Berrima. After a run of 65 days, six lost-time injuries occurred in rapid succession, pushing our "Frequency Rate" from five to 14.

This is disheartening news considering there had been only three lost-time injuries up to the end of September.

With less than two months to go before the year is ended, let us all make a real effort to prevent any more disabling injuries.

Safety figures as at the end of October, 1962:

Berrima: 7 accident free days.

Marulan: 34 accident free days.

Colliery: 1 accident free day.

WELFARE NEWS

(Continued from Page 10)

LADIES' EVENTS

100 Yards HANDICAP, Single.
75 Yards HANDICAP, Married.
RELAY, Single.
RELAY, Married.
THREE-LEGGED, Single.
THREE-LEGGED, Married.
Throwing Rolling Pin, Single.
Throwing Rolling Pin, Married.
TUG-O-WAR (Teams post entries). All comers — MEN.
GENTS' THREAD NEEDLE — MIXED
—Ladies run 50 Yards—Husband and Wife.

Obituary

Our sincere sympathy is extended to the Tickner family, of Moss Vale, in the loss of their son Paul. Paul's brother John is employed in our Fitting Shop.

Workmates of the late Frank Brice were shocked recently to hear that his eldest son, Kerry, was killed whilst riding his motor bike near Camden. Our heartfelt sympathy goes to his mother, Mrs. Muriel Brice, brothers and sisters.

Personal Pars

Heard on the Grapevine

BERRIMA

The following new employees commenced work with the Company during October:

Bill Howard and John Powers—Production.

Kevin Cooper—Electrical Department.

John O'Neill—Laboratory.

Harold Angel and Gary Warder—Maintenance.

—*—

There was also a new starter in our Maintenance Engineer's family during the month. Mrs. Parsons presented Wal with a new daughter and they are now proud parents of two pigeon pairs. Congratulations to you both.

—*—

Most of our office staff will remember John Wrightson; his father "Pop" is one of our Stockhouse Foremen. Well, John, who is studying economics at Canberra University, has hit the headlines twice in the past few weeks.

Firstly he lunched with the King of Thailand and secondly he doubled Dame Patti Menzies on the back of a motor scooter.

—*—

Brian Fletcher, from our store, is a "toby" for punishment. He is at present acting as "enemy" in the large scale army manoeuvre known as "Operation Nutcracker".

—*—

Mel Toomey, Electrical Apprentice, sat for his Sergeant's stripes during the month, and with his keenness we'll be surprised if he isn't soon "sporting" them.

—*—

Bert Lansdown, Officer-in-Charge at Berrima Junction, has been transferred to Coonamble and Vic Doyle is at present endeavouring to satisfy our Sales Department's constant plea for trucks.



Sue wearing her coronet and sash.

Congratulations to Susan Hare, our Switch-girl — Susan was judged Waratah Princess at a recent Avoca Waratah Ball. A snap we took of Susan shows her two prizes — a sash and a lovely coronet.

—————

MARULAN

Congratulations to Valma Cosgrove and Bill May who were recently married in Goulburn. Valma is the second daughter of Mr. and Mrs. Vince Cosgrove, of Marulan South, and Bill the younger son of Mrs. E. May, of Goulburn. They will make their home in Goulburn. Bill works in the Quarry.

—*—

Recent new starters are Kevin Higgins, Ron Lucas, Merlyn McDonald, Kevin Hogan and Len Sieler.

Bill McCallum, long associated with our Marulan Quarry store, is very proud of his two cycling sons. They are both champions of their Goulburn Club.



Don and Roy McCallum, sons of Storeman Bill. They are two of the champions of Goulburn Cycle Club.

Marulan South Cricket Club plans another interesting season. The annual meeting appointed E. Thompson secretary, K. Graham treasurer and S. Murphy president.

Quarry Superintendent, Mr. Kevin Howard, late last month attended a Quarry Managers' Convention at Surfers' Paradise.

Apprentices who topped their classes at Goulburn Technical College last year will be taken to inspect part of the Snowy Scheme on 18th November. Marulan South lads Myles Creswick, John Hardgrave and Bob Jeffery (on loan from Berrima) will be accompanied by the Master of Apprentices, Mr. Bill Saker.

Mick Cosgrove and Noel ("Ben") Hall are on annual holidays.

Crane Driver Cliff Shepherd is back at work after a seaside holiday with his wife, Heather. He had the misfortune to break an arm while playing basketball a few days after he started holidays.

Barry Barnfield spent most of his holidays rifle shooting, which included a week at the Queen's Shoot in Sydney. Other riflemen who competed were Trevor Pearson, Doug Taylor and Frank Bell.

Apprentice Ian Mackey has returned to Berrima and his place at Marulan South has been taken by Bob Jeffery.

The annual public school sports meeting was held at Windellama on October 17th. The main results will be published in the December issue.

Ashley Cooper is back at work after a throat operation in Goulburn. Ashley had a rough few days during the early days of his hospitalisation. However, we are pleased to report that he is again well.

Max Johansen expects to start on his house on a newly opened residential area at Marulan South within the next few weeks. Max is now storeman and his late father, Charlie, was for many years the quarry blacksmith.

The new Go Kart track on the Bungonia Road was officially opened on 21st October. There are a number of enthusiasts in the Marulan district and the club plans additional attractions during the coming season.

—*—

Jim Allen has left Marulan South to work in the Bungendore district. His wife Pam and children will join him when suitable accommodation is found.

—*—

Congratulations to Tom and Mrs. Sharkey for again winning the Goulburn Lilac Time Waltzing competition. They are probably the best known dancing team in the whole of the Goulburn district and have been winning prizes for three generations. Mrs. Sharkey must have been very young when she teamed up with Tom.

—*—

SYDNEY OFFICE

Judy Lillyman, our representative for the magazine is at present enjoying her annual holidays. She said that her holidays would be used for studying for her University examinations, but it is rumoured that she has been seen quite often sun-baking at Maroubra Beach. Seems to be quite an interesting way to study! Best of luck in your exams Judy.

—*—

Harold Harris, of our Liverpool store, is also on annual holidays. It looks as though his time will be divided between working at home and holidaying at The Entrance.

—*—

Max Barnett has just completed a large "refit" on his yacht "Sarong", and should be able to take a few more customers on board.

He decided it was unnecessary to move the mast forward as he won the C.Y.C. Annual Ocean points score for the season just completed.

—*—

Len Newman, our Southern Districts representative, is another sailing enthusiast. He has just placed his "Gwen" in the water at Wagga, complete with a new set of sails.

—*—

Welcome Stranger:

John and June Dahls have a brand new son: Jonathon was born at Royal North Shore on 21st October. John, although "batching", is making a good recovery.

LET'S LAUGH

Logic—

A dumb girl is a dope, a dope is a drug; doctors give drugs to relieve pain. Therefore, a dumb girl is just what the doctor ordered.

—*—

A public works inspector known for his fault-finding, was checking a new road under construction. The shoulders were too narrow, he started in, the crown too low, and the ditches had been dug too deep. The foreman listened to him grimly, then asked: "Is the length okay, sir?"

Two drunks were wandering along the railroad track.

"These are the longest stairs I ever saw."

"Yesh," said the second one, "but its these low handrails that get me."

—*—

"I wouldn't worry too much if your son makes mud pies," said the psychiatrist, "not even if he tries to eat them. That's quite normal."

"Well, I don't think it is," replied the mother, "and neither does his wife."



Football

By KEVIN MOORE

Although the summer months are here, but not the summer weather, football is forgotten to most people except the Committees of the various clubs, who are busy arranging their end of the season presentations.

Berrima held their presentation night at a dance on the 2nd November at Berrima, where the winners were presented with their trophies for the year. Trevor Mott, who won the award for the best and fairest player, was presented with a silver tray. Don Garbutt received a wall clock for being judged the most improved player, and Barry Moore also a clock for being the best and fairest forward. The surprise of the night was when all the players and committee received a wooden spoon suitably inscribed for being the "wooden spooners" of the competition.

A large crowd attended Robertson-Burrawang's junior football presentation night on 12th October. All the players received a cup for being runners-up in the competition. Tom Newstead, from the Stockhouse, was presented with mother of pearl sleeve links and matching tie pin, in appreciation of his coaching for the year.

Mittagong are now working hard to raise money to send a team to New Zealand within the next two years. The club deserves much credit for making this effort, as it should help football in Group Six.

However, all clubs will need to watch their members closely, otherwise Mittagong will have all the players joining them and trying to win a place in the touring side.

Cricket

By KEN MOTT

With only two matches played so far, the S.P.C. 1st Grade side has not settled fully into stride. However, they scored a very impressive win over Mittagong in the opening match. The crack Moss Vale team's defeat at the hands of Mittagong in the following match indicates that S.P.C. will still be a candidate for premiership honours when they strike top form.

Mittagong certainly appeared to have the match well in hand after the first Saturday's play, when they had scored 183 and S.P.C. were 3 for 50, having lost Beattie, Veale and Mott.

The second day was the day following the Basketball Ball and Ken Mott was a casualty and failed to report. However, Bill Poland seemed to be only mildly affected and he hammered the Mittagong bowling to the tune of 90 runs, which enabled S.P.C. to overhaul the Mittagong total. Details are not to hand, but there were quite a sprinkling of sixers and fours included in Bill's 90 runs.

The second match against Bowral was unfortunately "washed out" on the first Saturday, and was played over

one day only. S.P.C., batting first, collapsed after a reasonable start of 1 for 31 with Bill Poland, still in form, scoring a quick 24. Rooster McDonnell was the only other batsman to make any useful contribution with some spirited big hitting, and S.P.C. were all out for 68.

Despite this disastrous start, S.P.C. almost pulled the match out of the bag when Geoff Larsen captured two wickets off successive balls, and with Bowral playing three men short, they were virtually 5 for 14. With the last of the recognised batsmen facing up, Geo missed his hat trick by a whisker when a very close l.b.w. went against him. These two batsmen then went on to pass the S.P.C. total and acquire the first innings win for Bowral.

Playing his first game for S.P.C., John Estrieck was very impressive with the ball and appears likely to be an asset to the team.

John Coupe is managing a team of promising young cricketers in the second grade. Although they have met with little success to date, John is very pleased with their progress, particularly their keenness. Most prominent among them are R. Vincent, G. Stokes and I. Haddon, and they should develop into first grade cricketers with a little more experience.

Bowls

October has been an exceptionally good month for bowlers — not good weather, but on most Saturdays and Sundays bowls were playable.

All clubs in the district were able to hold their monthly mixed days and even though I shouldn't mention it, Mrs. Sandy Galloway has done it again. This time she has won at Mittagong and to make matters worse one of her opponents was Sandy and he got a h—!! of a hiding.

The Southern Tablelands Bowling Association visited Goulburn District during the month and played on Goulburn City green and what a terrific set-up! Three perfect greens and a

palatial club house. S.P.C. were represented by John Fuller and Alwyn Counsell, both skipping winning fours.

During the month I played against some Canberra City players at Bundanoon Club. They enjoyed their bowls but they really enjoyed playing the poker machines. Funny how our laws can be so different. In our district we have poker machines, but our bar shutters must be down during those hours when hotels are closed. In Canberra there are no poker machines but bars are open any time the club is open.

Canberra Clubs rely on pin boards for finance — only difference between a poker machine and a pin board is the fact that you lose quicker on a poker machine.

The State Championship games in our district are rapidly drawing towards finalists in all four events.

In the Singles last year's Association winner, Fred Armstrong, from our Colliery, is a finalist and to get to this position Fred disposed of some very good singles players — Congratulations Fred! Two in a row would be marvellous.

In the fours Alwyn Counsell's Bundanoon four has reached a similar position and will play a Camden four to decide the Association honours.

We haven't any finalists in the triples event, but a three skipped by our Works Manager, Len Knight, performed really well, and for a few games I thought they could do it for us, but 'twas not to be.

In the pairs we have had some really good performances. Sam Fleeton, from our Electrical Department, teamed with his Moss Vale Club President, have reached the last four, as have Johnny Fuller and Johnny D'Adam.

Johnny D'Adam should be good; his uncle, Gus Bianchetlo, is just about one of the best — keep up the good work John.

Moss Vale members have been having a lot of matches away and at home — no doubt getting in practice for the forthcoming pennant series. Len Knight, Frank Lansley and Jack Brown journeyed to Nowra several week-ends ago and were beaten on a count back

for the major prizes — 22 guinea watches.

On the 11th November each club in the Association has been asked to nominate two fours for a District Trial Game at Picton. It will be interesting to see how many S.P.C. bowlers are included from the various clubs.

Tennis

Weather has played havoc with the tennis competition so far this season and very few games have been completed.

Hillside, one of the three teams from Berrima, is having a good run in the A Reserve II competition, and so far are undefeated. This team, strengthened by the inclusion of Jim Middleton, is expected to do well in the competition.

Jack Dickson's court, "Yanna", is fielding the other two teams. Jack's team, which is in A Reserve I, has played two out of the six matches set down to be played, the others being cancelled through rain, and has lost one and won one. The other team so far has found the competition a bit hard and has failed to win a match.

Gardening Notes

By. Mrs. C. Crowe



for November

FLOWERS

Sow: Amaranthus, Antirrhinum, Aster, Balsam, Coreopsis, Celosia, Convolvulus, Cosmos, Dahlia, Dianthus, Eschscholtzia, Gaillardia, Gomphrena, Helianthus, Marigold (African and French), Nasturtium, Petunia, Phlox, Portulaca, Salpiglossis, Salvia, Scabiosa, Sweet Peas, Zinnia.

Plant: Antirrhinum, Aster, Carnation, Dianthus, Petunia, Phlox, Lobelia, Verbena, Delphinium, Zinnia, Portulaca.

VEGETABLES

Sow: Beetroot, French Beans, Butter Beans, Carrot, Parsley, Peas, Sweet Corn, Spinach, White Turnip, Cabbage, Celery, Leek, Tomato, Cucumber, Melon (Rock and Water), Pumpkin, Squash, Vegetable Marrow, Cress, Lettuce, Mustard, Onion, Radish.

Plant: Lettuce, Tomato, Herbs, potatoes.

Dahlia Tubers may be planted out now, placing a stake in position for each one.

Rooted Chrysanthemum cuttings should be planted in position.

Watch for Aphis on Roses and Chrysanthemums and spray with Nicotine Sulphate or similar preparation for killing sucking insects.

Keep the vegetables growing steadily by regular cultivation and give weak doses of liquid manure if leafy vegetables seem to be slow in maturing.

Destroy any diseased plants in the vegetable garden.

We are promised another windy month, so see that all ties and stakes are in place and secure, to prevent plants blowing over.

N.R.M.A. Motoring Notes

HIGHWAY DEATH TRAP TO GO

Work is well under way near Mittagong on a £100,000 project designed to eliminate a traditional "death trap" on the Hume Highway.

For about 28 years the section of road, on the outskirts of Mittagong, has been regarded by transport drivers and other drivers as a "horror stretch." Two bridges on the section, known as the Drabbles and Maltings railway overhead bridges, have been the scene of many motor accidents.

Plans for improving the dangerous section of the highway have been on the drawing-board for many years. The Department of Main Roads has finally begun a major scheme to deviate the road at this point.

The Drabbles and Maltings bridges, which span the main southern railway line, are in poor alignment. The Nattai Creek bridge is already under construction. Another bridge on the existing road will be eliminated. The project also calls for the improvement of the road alignment for nearly a mile.

FREE THOSE CRAMPED MUSCLES

A British doctor-motorist's advice:—"If you feel discomfort coming on during a long run, don't wait for it to pass. It won't. It will only get worse. Instead, stop a moment, get out of the car, and free those cramped muscles. Stand erect and stretch your back and legs a few times. You will soon be refreshed for another pain-free spell at the wheel."

MAP OF THE HAWKESBURY

The Department of Lands has completely revised its detailed map of the Hawkesbury River, from Windsor to Broken Bay and including Brisbane Waters, Pittwater and other tributaries. Drawn on a scale of one mile to the inch, it indicates water depths and land heights. All roads are well-defined

and recreation reserves and camping areas are shown. Price 5/- at N.R.M.A. Touring Department and branches.

WHAT IS A MAN DRIVER?

A man driver is the uncompromising counterpart of that considerate road-user, a woman driver.

There are more man drivers than women drivers. Man drivers often interpret this fact to mean that they own 90 per cent. of the road.

Man drivers are clever at dodging potholes, spotting policemen, dropping the clutch, beating the red light and passing on the left. They love excitement and often use little tricks to promote it on the roads, like seeing how close they can stick to the car in front, or how many more miles an hour they can add to an advisory speed sign.

Man drivers are thoughtful. They burn out brakes to avoid running over stray dogs, possums, frogs, tortoises and silent cops, but their philosophy decrees that school children, old ladies and mothers with prams should have more sense than to get in the way.

Man drivers delight in competition, especially in heavy traffic, where they can test the reflexes of other drivers, shout funny things like "Watch i mug!" and demonstrate their ability to support the entire roof of their vehicle with one hand.

Man drivers are even more skilful when they've got a skinful. They can do things then with the speedo needle that they'd never thought possible before and some of them even live to see 90!

According to man drivers, woman drivers aren't on the road, they're in the road! But let a woman driver score a puncture, or get stuck in the mud, or run out of petrol — then she's hardly opened the door when some welcome male voice punctuates a screech of brakes: "Need a hand, lady!"

Fishing Notes

By RUS GREAVES



I did mention in last issue that I would have all sorts of fish "tails" on return from holidays at Shoalhaven Heads.

Believe it or not, when the weather wasn't blowing a howling gale it was cold, and that persisted all through the holidays. Well, I suppose one can't be lucky all the time.

Needless to say, fishing was as bad as could be, even the locals, who tried pretty hard, had no luck.

During the first two days I caught a 25lb. Gummy Shark. This was our salvation as apart from one flathead and two silver eye mullet, no more edible fish were caught.

For those anglers who have not eaten gummy shark, there is quite a shock in store for you when you try one. Its just like eating beautiful juicy white steak. A kind of cross between flathead and bream, and, of

(Continued on page 20)



Green Island

Let's Laugh

A stout lady was told by her physician, "You have too much around your hips and the weight has retreated to your rear, giving you lordosis and affecting your posture. You'll have to reduce."

Looking at the doctor's large protruding stomach, she commented, "Seems to me, I'd rather pull it than push it."

And did you hear about the skeptical little American girl who said: "If George Washington was such an honest man, why do they close all the banks on his birthday?"

Fishing Notes

(Continued from page 19)

course, no bones! The difficult part is skinning the carcase. My method (not professional, I suppose) is to gut and wash the shark and let it dry. Then after putting newspaper on the tail-board of my van, produce a sharp knife, and taking a grip of one's vocabulary, proceed to lift the skin from the tail, working towards the head.

Anything up to 20 lbs., or even 15 lbs., is worth skinning. A 25 lb. shark will probably yield about 8 lbs. of delicious flesh. Fried in milk or bread-crumbs, you would eat nothing else!

To mark the end of a really windy holiday, we brought a packet of frozen flathead in a Nowra store.

None of the Works' fishermen have been doing much good either, although Alan Parker is getting teed up for an onslaught on the perch this summer.

Just to make your mouth water — have a look at beautiful Green Island — fish galore — 18 miles from Cairns. (Photo previous page).

There was a Scotsman who wouldn't buy his girl friend a parasol when they went to the beach, but told her shady stories instead.

There's nothing like hard work—and wouldn't it be terrible if there were?

"You can't quit now," the circus manager told the human cannonball. "Where can I find another man of your calibre?"

Seems Karl was playing his usual 18 holes on Saturday afternoon. Teeing off from the 18th he hit into the rough. Just as he was about to play his shot he noticed a long funeral procession going by on a nearby street. Reverently, Karl removed his cap and stood to attention as the procession passed, then he continued his game and scored a birdie. Later at the clubhouse a fellow golfer greeted Karl.

"Say, that was a nice gesture you made to-day, Karl", he said.

"What do you mean?" said Karl.

"I mean it was nice of you to remove your cap and stand respectfully when the funeral went by," the friend replied.

"Oh, yes," said Karl. "We would have been married thirty three years next month."

Bandages covered the fellow who lay in the hospital. Dazedly he asked his visiting pal, "Wh-What happened?"

"You absorbed too much last night then bet that you could fly out the window and around the block."

"Why didn't you stop me?" screamed the patient.

"Stop you," said the other, "I had ten bucks on you!"

Wife (reading husband's fortune card): "You are a leader of men. You are brave, strong-willed and popular with the opposite sex. It's got your weight wrong, too."

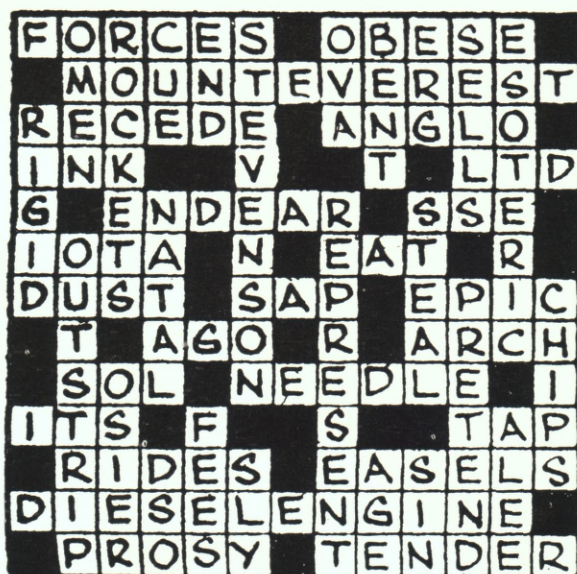
— Problem Page —

The result of Problem No. 44 is shown at right. Eighteen correct entries were received and winner drawn from the hat was Mel Toomey. Congratulations Mel!

PROBLEM No. 45

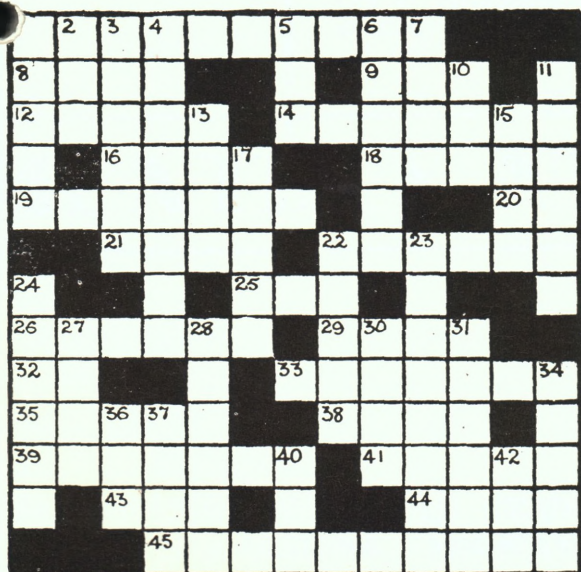
Across

1. Type of ape
8. Rodent
9. Short sleep
12. Small particles
14. Burst asunder
16. The head
18. Something let in
19. Imaginary beings
20. Direction
21. Quote
22. Fasten
25. It fails to explode
26. Pincers
29. Wet
32. Army Order (Abbr.)
33. Assistants
35. Underground growths
38. Reign
39. Experts
41. Fruit
43. Old times (Poet.)
44. Look after
45. Many-legged insects



Down

1. Grain husks
2. Cap
3. Satirical
4. Learn by heart
5. Incline the head
6. Flag
7. Deserve
10. Secretion
11. Speaks
13. Opening
15. Spanish dollar
17. English city
22. Venomous snake
23. Whole
24. Scattered
27. Plunder
28. Dwell
30. Mineral salt
31. Pared
34. Despatches
36. Mineral
37. Powder
40. Arrange
42. Number



OBITUARY

We regret to report the death of Alwyn Counsell, who collapsed and died whilst playing bowls at Moss Vale on Saturday, 10th November.

Alwyn had been associated with this Company for some six years during the latter part of which he was responsible for clerical functions in the Chief Engineer's Department and at the time of his death was Acting Editor of this publication in the absence on sick leave of Mark Hauber.

Our deepest sympathy is extended to his family, which is very well known in the Bundanoon area.

PS

SPC

Vol. 4, No. 12.

DECEMBER, 1962

MONTHLY NEWSLETTER

SOUTHERN PORTLAND CEMENT LTD.
MARULAN - BERRIMA - MEDWAY - SYDNEY



General Manager's Notes

Oh dear! What can that clatter be,
Smoke, smell and sinister chatter be,
How very tiresome to happen on Sunday;
The fitters are not at the Works.

— Anon.


After twelve months of fairly continuous operation the cement mills are feeling the strain, so during the usual relatively lean sales period in the latter half of December and early January they will be having their annual overhauls in readiness for anticipated record sales during 1963.

The engineers, in collaboration with the production people, have drawn up a maintenance schedule which envisages each mill being out of production for a week to a fortnight for checking of bearings, gear wear, replating and other necessary work.

An "A" overhaul of both boilers and No. 3 Turbine has also to be fitted in, as well as the connecting of the boiler flues to the new electrostatic precipitators.

The Festive Season is again with us and on behalf of our Directors and Management I extend to all employees and their families best wishes for a Merry Christmas and a Prosperous New Year.

GENERAL MANAGER.



S.P.C. MONTHLY NEWSLETTER

Distributed Monthly by:

SOUTHERN PORTLAND
CEMENT LTD.
BERRIMA, N.S.W.

• EDITOR

M. D. Hauber

• PRINTERS

Southern Highland News
Pty. Ltd., Bowral

• ALL CORRESPONDENCE
AND ENQUIRIES TO:-

The Editor
S.P.C. Monthly Newsletter
PBS 4, Moss Vale

• COPY DEADLINE

1st of the Month

Vol. 4, No. 12.

DECEMBER, 1962

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— Departmental Representatives —

S.P.C. BERRIMA	R. GREAVES L. HUMPHRIES
MARULAN QUARRY	A. GUTZKE R. CRESWICK
MEDWAY COLLIERY	R. JONES
SYDNEY OFFICE	Miss J. LILLYMAN

— Contributions —

GARDENING NOTES	Mrs. C. CROWE Berrima
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Editorial

Dear Readers,

Well, Xmas is with us once more and it is usually a time to reflect on the twelve months gone by.

In retrospect we have had a good year.

Safetywise our record has shown a marked improvement over previous years and this fact can be attributed to the interest taken by everyone on the plant in our campaign for SAFETY EVERYWHERE AT ALL TIMES. Let us all strive for an all time record in 1963 and make it a year to remember.

I feel that it is appropriate at this time to acknowledge with sincere thanks the efforts of everyone who has contributed in some way to the production of our Newsletter.

Firstly, to Mrs. C. Crowe, of Berrima, whose gardening notes have been a regular feature each month and a welcome contribution.

Secondly, our departmental representatives, Miss Judy Lillyman (Sydney Office), Mr. Barney Creswiek (Marulan), Rus Greaves, Ken Mott, Kevin Moore and John Fuller, of Berrima, our cartoonist, Alan Gutzke (Marulan), Bobby Jones (Colliery) and, of course, our typiste, Mrs. Fraser, who has had to decipher some horrible writing at times.

And, lastly, to those other people who have contributed indirectly, my fellow editors of sister magazines whose jokes I have filched from time to time, and to Mr. B. G. King, of Sapco.

To all these people and to the readers of the S.P.C. Newsletter, may I, on behalf of the Management, wish you all a very Merry Xmas and a Happy and Prosperous New Year.

Until next issue,

Yours,

THE EDITOR.



Good Resolutions

By B. Creswick

Good resolutions are for most people a matter to be dealt with at the year's beginning, and that, maybe, is why so many of us revert so swiftly to our former unregenerate ways.

There is a right season as well as a wrong one for turning over a new leaf, and it would seem advisable to make the brave endeavour less hastily than we have been in the habit of doing—that is, after a time of meditation, rather than during the hurly burly of a festival season.

Can there be any better time than the present, when our summer vacation gives us what is obviously the best opportunity in all the year to acquaint ourselves with ourselves? It is surely the only opportunity for most people, because an annual holiday means, or ought to mean, a week or so of putting aside the ordinary duties, mental and physical, and using part at least of the period of leisure for self-communing and well-considered decisions about the innermost man or woman.

Courage and fortitude, faith and honour—these are always with us in some measure; it is contentment, certainty, serenity that are perhaps our great need. Ordinary men and women cannot be expected to feel contentment and serenity in disordered days that may lead back to chaos, and courage and fortitude only partially sustain them. There may be no certainty, personally speaking, where all is un-

certain, but faith and honour will keep a heart high above all.

So let our turning over a new leaf at what we may decide is the fit and proper moment to include the resolution to join up not only with the courageous, faithful and honourable everywhere, but also to use the strength their possessions ensures in resiting all that denies us our old contentment, assurance and serenity.

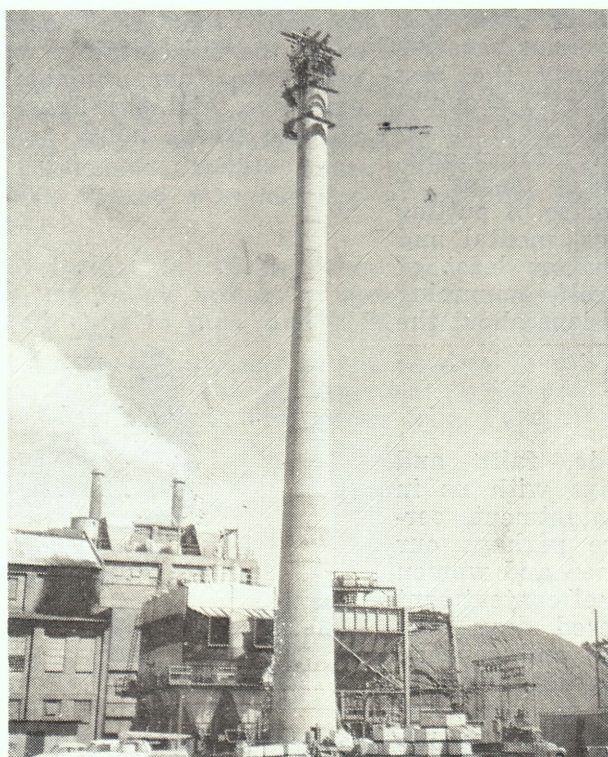
Merely to hold onto life is not enough, nor are courage, faith and honour the ultimates in good living. We can crown them by the "sweet content" that the poets have often sung, the old certainty which means so much in our humble, day-by-day existence, and the finest possession of all, the serene mind.



NEW
DUMP
TRUCK



STACK
CREEPS
SKYWARDS



accused

Plant Jottings



The equivalent in cash of 26 sedan type motor cars, this huge Euclid Model B2TD was delivered to the Quarry during the month. It is the largest dump truck to be put in service at Marulan and was supplied by Blackwood Hodge from their factory in Scotland.

The truck features a new safety device which prevents the hoist being operated whilst the reverse driving gears are engaged and vice versa.

This Euclid is powered by a 400 h.p. Cummings diesel engine with Allison transmission incorporating an integral torque converter. It has a capacity of 27 tons, its overall dimensions being 11 feet 9 inches wide and 12 feet high. Being of such large dimensions and capacity care must be taken in dumping limestone onto the present Jaw Crusher feeder so that the crusher is not flooded and so it will be mainly used on the removal of overburden, a job for which it is particularly suited.



Last month we showed you a picture of the new concrete stack being constructed in conjunction with the electrostatic precipitators. For the benefit of the 50 per cent. of our readers who don't see the daily progress here is another shot showing the stack almost up to its finished height. The picture also gives a good idea of the construction technique.

The stack, which will be 200 feet high, has been designed in accordance with modern practice for boiler house flue gas stacks so that the little dust remaining in the waste gases will be dispersed so widely that the density of their deposition becomes negligible.



Apprentices Visit Snowy Scheme

An award of a three day trip to the Snowy Mountains Scheme was made by the Company to the eight prize winning apprentices in the 1961 Technical College examinations.

The apprentices who made the trip were J. Grilz, D. King and R. Strode, of the Electrical Department, I. Mackey, M. King, R. Jeffreys and M. Creswick, of the Mechanical Department, and J. Hardgraves, Carpentry.

The boys were accompanied by the Apprentice Training Foreman, Mr. W. A. Saker, and two cars left New Berrima at 4 a.m. on Saturday, 17th, picking up the Marulan apprentices on the way through, arriving at Cooma at 9 a.m. and reporting at the Snowy Mountains Information Centre at 9.50 a.m.

The Authority's conducting officer, Mr. M. Giblin, was on hand to receive the party and we were conducted to the Theatre where our guide explained, with the use of maps, just that portion of the Scheme that we would be seeing over the next three days.

A film covering the same area was also screened.

11 a.m. — a visit was made to the Commission's engineering laboratory in Cooma where working scale models of dams were seen on which actual tests are carried out before the major projects are commenced.

12.45 p.m. — lunch in the Monaro Hostel in Cooma North.

1.30 p.m. — departed from Cooma for Guthega Dam approximately sixty miles distant. It is built in the upper reaches of the Snowy River and the wall contains 57,000 cubic yards of concrete. From the dam a 19 feet diameter tunnel three miles in length is joined to 3,200 feet of pipe which supplies the water for driving the turbine generators at Guthega Power Station.

4.00 p.m. — travelled to and inspected the Guthega Power Station, then on to see the work being carried out by Utah who are driving a 20 feet diameter tunnel from Island Bend to Lake Eucumbene.

The S.M.A. have commenced the foundations for the Island Bend Dam and a considerable amount of work has already been carried out. The concrete mixing plant is in position and the aggregate crushing plant is proceeding.

5.30 p.m. — arrived at Island Bend for dinner and overnight stay.

Sunday, 18th December:

7.45 a.m. — breakfast at Island Bend staff mess.

8.30 a.m. — proceeded to Eucumbene which is considered to be one of the highest earth and rock filled dams in the world, being 381 feet high and one half mile wide at the base.

The wall in the Eucumbene River forms Lake Eucumbene which is the main storage reservoir for both the Snowy-Tumut development and the Snowy-Murray development. On the way to Eucumbene Dam a slight detour was made to view the preparatory work being carried out on the site of the new town of Jindabyne, for, when Jindabyne Dam is built the old town will be submerged.

Left Eucumbene Dam at 10.45 a.m. and proceeded to the new town of Adaminaby, the old town having been submerged by Lake Eucumbene.

Travelled a further six miles to the Adaminaby landing and boarded the S.M.A. launch for a one-hour tour of Lake Eucumbene.

A picnic lunch was had during the trip on the Lake.

1.30 p.m. — left Lake Eucumbene and travelled to inspect Tumut 1 and Tumut 2 Power Stations travelling via the Snowy Mountains Highway and

Kiandra. To inspect Tumut 2 it is necessary to travel down an access tunnel $\frac{3}{4}$ -mile in length and the station is 1,200 feet underground.

One only of the three generators was in operation due to the day being a Sunday and the demand not so great as on a week day.

5.30 p.m. — arrived at Cabramurra for dinner and to stay overnight.

Monday, 19th November:

Breakfast at Cabramurra staff mess at 7.45 a.m.

8.30 a.m. — commenced trip to Khancoban, a distance of seventy miles. En route inspected Tumut Pond and Tooma Dams and arrived at Khancoban at 10.30 a.m. This town

is being built by the S.M.A. and is very modern in design and is the headquarters of the Snowy-Murray development scheme.

Proceeded on to Geehi after viewing the sights of the Murray 1 and 2 Power Stations and arrived at 1.30 p.m. to lunch in the staff mess.

2.15 p.m. — proceeded along the Alpine Way to Cooma via Dead Horse Gap, Thredbo, Jindabyne and arrived back in Cooma at 4.00 p.m.

Left immediately for Berrima stopping at Goulburn at approximately 7 p.m. for dinner and arriving back in Berrima at 9.30 p.m.

The following pictures show some of the spots visited.





Inspecting Providence Portal at Lake Eucumbene

N.R.M.A. Motoring Notes

DRIVING TIPS FOR HOLIDAYS

With the Christmas - New Year holidays coming into view, the N.R.M.A. issues the following tips to help holiday drivers:

Drive at moderate speeds. This gives a better chance of recovering from a misjudgment. Few motorists drive without making a mistake at some time or other. On country runs particularly drivers can lose all sense of speed and frequently will be travelling very much faster than they imagine. Keep an eye on the speedometer and drive well within safety limits.

Don't overtake unless it is necessary. By doing this, the chances of being involved in a serious accident are considerably reduced. If others wish to overtake you, give them good opportunities to do so — if you don't, you may contribute to an accident and

perhaps be involved in it yourself.

Curb your impatience. Commonsense flees when impatience takes over. Many drivers who overtake badly are the victims of their own impatience.

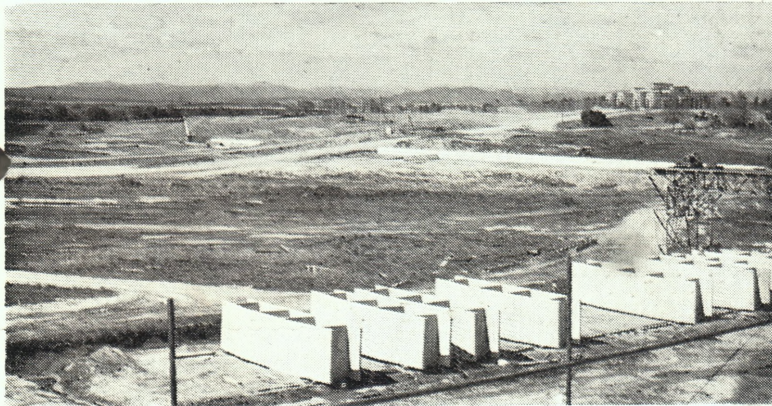
Use your head at intersections. Every sensible driver knows that intersections are packed with danger, but many make insufficient or no allowance. Forty per cent. of all road accidents occur at intersections.

Loose gravel at road junctions in outer areas is particularly dangerous. Drivers should slow down to negotiate these hazards and avoid sudden braking which, on a loose gravel surface, can be fatal.

If you are driving at 45 miles an hour, your car will travel 660 feet before you can pass a car ahead that is travelling at 35 miles an hour. Allow yourself ample room to pass at all times.

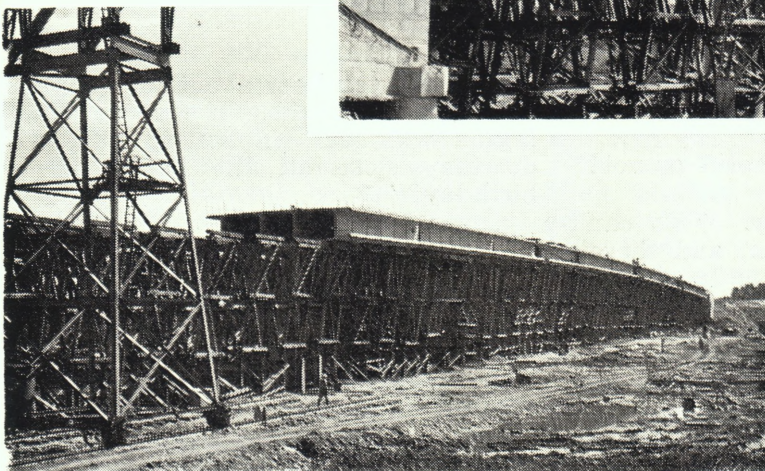
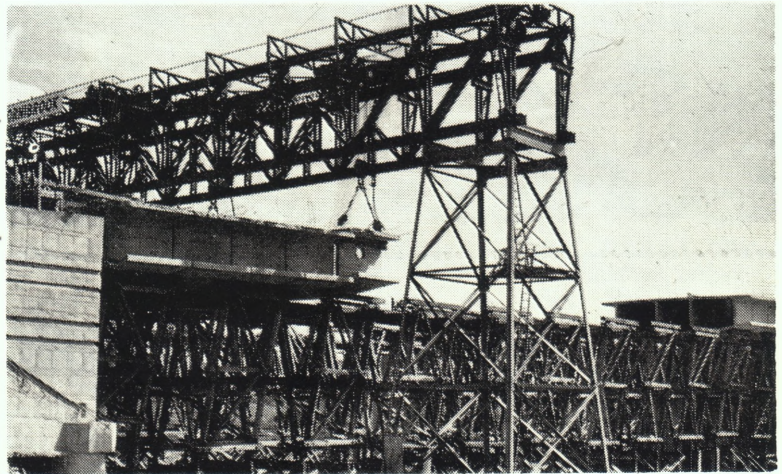
Southern Cement In New Bridge

The following pictures best describe the construction of the New Commonwealth Bridge at Canberra which spans the Molonglo River between City and Capital Hill.



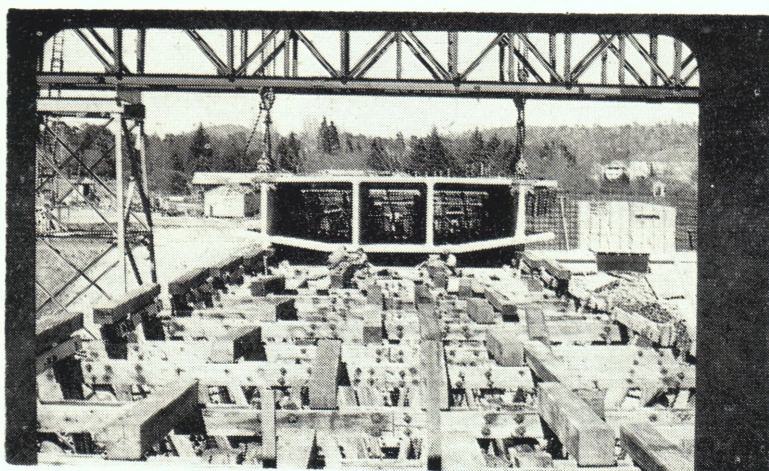
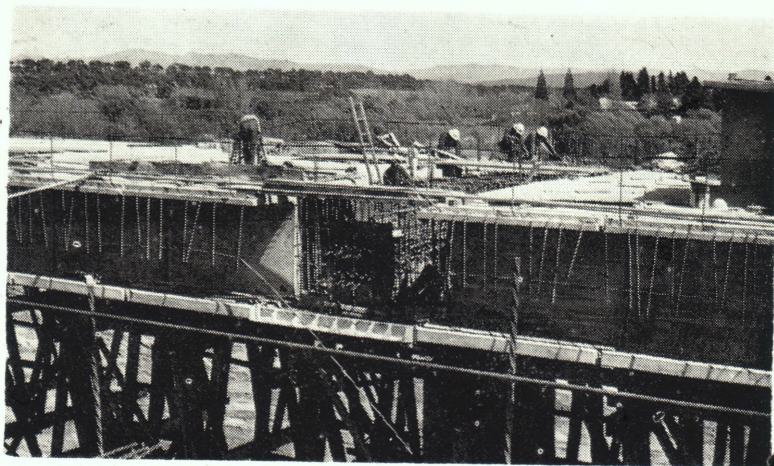
Pre-cast sections of the bridge deck in the casting bay.

Assembling the deck sections on top of form work.



Another view of the bridge deck taking shape on top of the form work. Prestressing wires will run the full length of the bridge on each side of the vertical walls to tie the sections together.

Placing heavy reinforcement in a cast in-situ deck section which sits on rollers above the pier. The weight of the bridge is transferred to the piers through these cast in-situ sections.



View from inside the bridge section looking along the top of the form work where another section is being placed in position.

Let's Laugh

In one small town, the sheriff was also the veterinarian. One night he got a frantic phone call.

"Do you want me as sheriff or vet?" he asked.

"Both", came the reply. "We can't get our dog's mouth open, and there's a burglar in it."

Father to small boy dragging top half of Bikini bathing suit along the beach, "Now, show daddy exactly where you found it."

And did you hear about the skeptical little girl who said: "If George Washington was such an honest man, why do they close all the banks on his birthday?"

A fellow who had had one too many was driving the wrong way on a one-way street and was hailed by a cop who rasped, "Hey, didn't you see the arrows?"

"Honest, Offisher," gurgled the driver, "I didn't even see the Indians!"



Cricket

By KEN MOTT

With two weeks break because of a "bye", S.P.C. 1st Grade will at least have some respite from the succession of disappointments befalling them over the past few weeks, and could well utilise the spell to promote a little more interest and form a more responsible and reliable XI.

Playing two and three players short in every match so far, has endangered S.P.C.'s chances of reaching the semi-finals, and inflicts uninteresting and tiresome cricket on those few players that are keen. In contrast to this, cricket throughout the rest of the district is being played and enjoyed at a very high standard, and even at full strength, S.P.C. will have to battle hard to displace any of the top four teams at this stage.

Bill Poland is still enjoying a successful season although he is far from settling down to conscientious cricket. Bill has had scores of 47, 29 and 20 for his last three innings, and in the latest match against Bowral he bowled exceptionally well and picked up a couple of good wickets.

Opening bowler Geoff Larsen is our main wicket taker, although he is required to do a lot of work, more so since the retirement of consistent change bowler John Estrieck since the Bowral match. Poor fielding by S.P.C. is also making Geoff's task a little harder than it should be.

A. Day made a useful 32 against

Mittagong 1, showing himself to be a very solid bat, although a little reluctant to move his feet to the pitch of the ball. Ken Mott is beginning to hit the ball more confidently and John Byfield opened out to knock up 20 against Bowral Blues.

Peter Mott started off very well, batting against Shoalhaven in the district match and we'll be hoping for some runs from this fellow when he eventually gets to a competition match.

Results of the last two matches are: Mittagong 1 305 defeated S.P.C. outright. S.P.C. 113 and 87.

Bowral Blues defeated S.P.C. outright—135 and 6 for 70. S.P.C. 110 and 90.

S.P.C. employees were well represented in the Moss Vale District representative teams to play Shoalhaven during the month.

Under 17—Peter Watson.

Under 21—Ken Mott, Bill Poland, Peter Mott, Bob Waide, Gary Poland and Dave Parker.

Seniors—Bill Poland, Geoff Larsen and Ned Beattie.

Tommy Waide, of the Electrical Shop, playing with Moss Vale, "sneaked" back to second grade while the firsts had a bye, to subdue the top 2nd Grade bowling attack of Pull and Clarke from Centrals. Tom really showed them with a sparkling 85 and 36 n.o. in successive innings.

Col Moore, also of the Electrical Shop, playing with Burrawang 2nds, had the amazing match figures of 12 for 22 in a match against Moss Vale Colts.

Tennis

With weather conditions ideal for tennis, the competition is now progressing much better than the last month, when wet conditions caused the postponement of many matches.

Jack Dickson's team, Yanna No. 1, are still breaking even, losing three and winning three. This is not a bad average, but we would still like to see no more defeats and only wins from here on. Congratulations to Jack and his partner Alan Evans who defeated last year's championship doubles winners six games to nil at Bundanoon. It is just as well that safety hats are made to suit all size heads or there may be a certain engine driver who would not be able to get one to fit him.

Yanna No. 2 team are still not having much success, although after forfeiting three sets were unlucky to be beaten, five games to four against one team. With a little bit of luck we hope to report some wins next month.

Hillside, the only other team from Berrima, are holding pride of place with Bundanoon in their Grade with one defeat each. Hillside, which is mainly a team of warders from the Berrima Jail, were unlucky when they could not field a team against one team and had to forfeit, which is their only loss. Hillside defeated Bundanoon to give them their only defeat.

The Electrical Shop have now started a competition which is held amongst themselves every Thursday night. As the season moves along maybe we can see a few challenges from other Departments of the Works. What about it Machine Shop and Yard? The Staff have a few old champs amongst them and maybe they could clear the cobwebs from their racquets for a good night's tennis and outing with the boys.

Bowls

It was a sad day when we received the bad news of the passing of one of our District's outstanding bowlers, Alwyn Counsell. We have lost not only a great worker for his club, but to the Bowling Fraternity in general and I know that many of us will miss him at roll call.

Our sympathy extends to his wife and family.

Did you hear that Johnny D'Adam had his Uncle Gus at Moss Vale on Sunday, 18th November. They tell me Gus still has his driver's licence — deadies out of 9, ask Jimmy Moore. Pity Len Knight was not against him — they are old buddies you know.

Moss Vale still holds a good record in the "Tin Hat Trophy." They defeated Campbelltown on Sunday, 11th S.P.-ites are well represented — Bill McDonnell, Sid Hurst, Doug Crowe. Harold Sheather and John Fuller. Lood out, Bowral, they're really keen!

One of our best bowlers has forsaken us to take up golf. Good luck Jim and plenty of trophies!

S.T.B.A. travelled to Blackheath to play an inter-district match on the 18th November. Good to see participating. Bill McDonnell and John Fuller.

I believe Jimmy Colquhoun filled a vacancy for a Bowral team at Mittagong on the 18th November. (Day for Bargo Club). With him was Herbert (Curly) Ling, and they went well too! won 2, lost 1.

Saw Mark Jones at Moss Vale Bowling Club on the Carpet Bowls. I hear a couple of lottery tickets nearly went his way. Keep trying Mark!

Between S.P.C. and the Colliery we could muster forty bowlers, not bad eh?

Heard that Eric Johnson, of Robertson, is in the final pairs, of the Club, I mean. Good luck Eric.

Did You Know:

When the leader lays the mat to start off the first head of a match, the front of the mat must be placed six feet from the ditch.

Personal Pars

Heard on the Grapevine

BERRIMA

An S.P.C. tug-o-war team had a successful engagement at Moss Vale Carnival when they defeated the Woodcutters from Mittagong.

The team consisted of:

R. Magnus, G. Larsen, T. Mole, N. Silby, A. Donaldson, J. Chambers, A. Angel, B. Brooks and A. Stanley.

The Electricians team which was entered in the same event were unsuccessful. Congratulations to the Works Team.

—*—

We are pleased to report that Jim Laird is home again following his hospitalization and is progressing favourably.

—*—

Ken Noble (Elect.) is a present holidaying at Waikiki, near The Entrance.

—*—

The General Office features some new faces and loses an old one. New starters are Chris Knowlson, of Exeter, Peter Douglas, of Bowral, and Peter Mott, of New Berrima. To these three people we extend a welcome to S.P.C. Felix Baggen leaves us to take up duties in Sydney Office. We wish you all the best Felix.

—*—

Nives Biasutti, of the General Office, announced her engagement to Mr. Angelo Donati on the 12th November. Congratulations Nives and best wishes for the future.

—*—

We all wish Cec Warner a speedy recovery from his present illness. Cec is a patient at St. Vincent's Hospital in Sydney and we all look forward to his return to work.

Jack Bloomfield goes on holidays in the near future. He intends visiting his old home town of Wellington to renew old acquaintances.

—*—

MARULAN

L.H. Fitter Jack Reed's shearing ended successfully. The "clip" of four fleeces came from his pets which also act as lawnmowers around his Tallong cottage.

—*—

Glad to hear that Sandy Galloway is well again after his recent illness. He spent a week with Jim and family at Marulan South.

—*—

The social cricket match, Marulan South v Goulburn Police, resulted in a win for the visitors. It was the first match of the season for the local team and those taking part voted it a splendid day.

—*—

The holiday season is depleting the ranks at the Quarry. Tony Cosgrove and family have been at Cronulla; Keith Graham and family intend visiting Narrandera and Melbourne; the Stan Murphys for Parramatta; the Eddie Reads for the coast; Alex Nekrasius and his wife for the city; while others will soon take off for other holiday venues.

—*—

During the absence of Tony Cosgrove, Keith Graham took charge of the Maintenance Section at the Quarry.

Apprentice Fitter Merv Henderson recently moved a house in sections from his hometown, Captain's Flat, to a site in Goulburn. He hopes to be settled in with his wife and young son by Christmas.

Shift Foreman Alex McMurtrie celebrated a birthday at the end of November. Which one was it, Mac?

Marulan South Apprentices, J. Hardgrave, M. Creswick and Bob Jeffrey (on loan from Berrima) considered the recently company sponsored trip to the Snowy Mountains Scheme a highlight of their education. Everything was so well organised and they were so generously treated that promises have been made for even greater efforts next year in their studies.

Workmates of Loco Driver George Pitt extend their deepest sympathy following the death of his wife.

Allan Gutzke, Shovel Driver, and George Rowley, Euclid Driver, recently spent a pleasant week-end fishing on the coast. A fairish catch was reported, but they hope to bring more proof next time of their prowess as anglers.

The new Euclid B2TD with a payload capacity of 27 tons somewhat dwarfs the rest of the Euclid Fleet at the Quarry, with capacities each of 20 tons. The B2TD was imported from Scotland at a cost of more than £28,000. It is powered by a 400 horse power Cummins diesel 6-cylinder engine. Total weight of the vehicle when fully loaded is 46 tons.

Pictured with the new unit when it was delivered early last month are the Quarry Superintendent, Kevin Howard, the distributor's (Blackwood Hodge) Service Manager, Jack Johnson, and driver under instruction, Colin Winter.



Quarry Safety First figures for the first 11 months of this year show a big improvement on 1961. There had been 16 lost time accidents to November 30th, compared with 33 for the corresponding period of last year. Minor injuries have similarly shown an appreciable decline. However, we will not be satisfied until all accidents have been eliminated. Perhaps an ambitious aim, but one well worthy of a greater effort next year.

Members of the Quarry work force were shocked to hear of the sudden death of Alwyn Counsell. Their sympathy is extended to his wife, son and daughter.

Steady progress is being maintained by Jim Galloway with his first aid classes for local boy scouts. Classes will be resumed in the New Year.

SYDNEY

We would like to welcome a new employee to Sydney Office, Miss Patricia Peisley, who commenced with us 5th November as an Accounting Machine Operator. Tricia seems to have no trouble settling into the routine although for the past nine months she has been on a working holiday in New Zealand and prior to that spent 10 months tripping around England and the Continent.

Miss Helga Atkinson, who has recently recovered from a severe bout of pneumonia, is unfortunately on the sick list again and is recuperating in Mena Hospital, Mosman, after an appendix operation. We all hope Helga will be back on her feet to be with us by Christmas.

A card was received in the office recently from Miss Diane Handley, who is at present holidaying at Coolangatta. She is apparently having a wonderful time. The present debate in the office is whether the girl on the front of the card feeding the porpoises is Diane or not. You never know how quickly these young lasses grow up on holidays.

Mrs. Marie Farrell is also off for a sunny holiday at Forster for a few weeks this year. She is also recuperating, not from an illness, but from the hectic activity involved in wedding arrangements. Her son, Terry, and the former Miss Shirley Lambert were married on Saturday, 10th November.

All the staff in Sydney Office wish all Berrima Staff a Happy Christmas and New Year better than all others.

Correction — Last month a new son was born to June and John Dibbs, not Dahls. Our apologies John!

More Laughs

Uncle (to six-year-old after church service): "And how did you like it, dear?"

Six-year-old: "I liked the music, but the commercial was too long."

"With a single stroke of the brush," said the school teacher, taking his class through the National Gallery, "Joshua Reynolds could change a smiling face into a frowning one."

"So can my mother," said a small boy.

Two lions escaped from the zoo in Washington, D.C., and didn't meet again for three months. One was fat, the other nothing but skin and bones. When they finally met, the skinny one said, "I've never seen you looking better. How in the world do you manage to be so well fed?"

The fat lion replied: "I've been hiding in the Pentagon eating a colonel a day. So far, nobody's noticed it."

Fishing Notes

By RUS GREAVES



A very pleasing report comes from Allan Parker and party who fished the Upper Reaches of the Shoalhaven for 38 perch to 2½ lbs. The perch were fairly plentiful but would only bite on changed lures. They were evidently fairly well fed and only took the lures as a matter of curiosity.

The unfortunate part is that the section fished is only accessible by four-wheel-drive vehicle. The road is precipitous and rough, and only well prepared parties are advised to try the spot.

There is a report of a couple of good trout being caught upstream from Fitzroy Falls. This has always been a fair place, but unfortunately the approaches are snaky and bad. How-

ever, armed with a pair of gum boots, good strong pants and long sleeves, one might make some impression on this bushy spot.

Jack Brown says its worth a try at the northern entrance to Lake Illawarra with very fresh prawns.

Bill Townsend reports much blanket weed in the canal. Apparently the weed gets in the gills of the fish and they make well out to sea when it is about.

From the temperature of my retrieved sinkers recently, the ocean is still very cold, and its not until we get some warm N.E. currents that there will be much improvement.

A few large jewies have been landed on the coast up to 68 lbs.

Bobby Friend is still very unhappy about all the good gummy sharks he has left lying on the beach on past fishing excursions! I'll give them a go from Shoalhaven during the New Year!

Must get a new sardine tin key by then!

Accompanying pictures were taken during Allan Parker's trip.





Bert Garbutt in expectation!



The Beautiful Kangaroo River.



FLOWERS

Sow: Amaranthus, Aster, Balsam, Celosia, Marigold (French and African), Stock, Early Sweet Peas, Pansy, Primula, Wallflower.

Plant: Aster, Marigold, Gladiolus.

VEGETABLES

Sow: Beetroot, Beans (French and Butter), Climbing Beans, Carrot, Parsnip, Spinach, Sweet Corn, Swede Turnip, Peas, Broccoli, Brussels Sprouts, Cauliflower, Cabbage, Celery, Cucumber, Melon, Marrow, Squash, Pumpkin, Cress, Lettuce, Radish.

Plant: Lettuce, Tomato.

If Daffodil Bulbs are to be lifted, do it this month. Daffodils need only be moved every fourth year. Hyacinths and Tulips should be lifted and dried off as soon as the foliage has died down. Plant out Dahlias which have been raised as green plants. Spring-flowering perennials which have finished flowering should be lightly cut back and manured. Keep an eye on Delphinium plants to prevent damage from snails and slugs.

Bait for snails and slugs now, throughout the garden. The first flush of rose-blooming is nearly over. Cut off all dead blooms in preparation for the next flowering. Fill up any gaps in planting with quick-flowering annuals, to maintain a bright show during the hot weather. Water the garden in the evenings during the summer months, to give the water a chance to sink into the soil. Keep the vegetable garden watered and apply liquid manure weekly to keep leafy vegetables moving. Watch marrows, pumpkins and other cucurbits for the appearance of pumpkin-beetles. Spray or dust with appropriate insecticides. **When using pest and disease sprays**, see that you follow the instructions printed on the containers, as many of these sprays are very toxic if wrongly used.

Our native plants have flowered profusely all around us this year. Watch for these and protect them as each year many more acres of them are being wiped out by bulldozers and bush-fires. Many species are found only in this district and once lost, cannot be replaced.



Greetings Page

*Sincere Good Wishes
for a Safe Holiday
Season and a Prosperous
New Year*

L. C. KNIGHT — Works Manager



*Best Wishes for a
Happy Xmas and a Bright
New Year*

S.P.C. WELFARE CLUB



*Seasons Greetings
for Xmas
and the New Year*

S.P.C. CRICKET CLUB



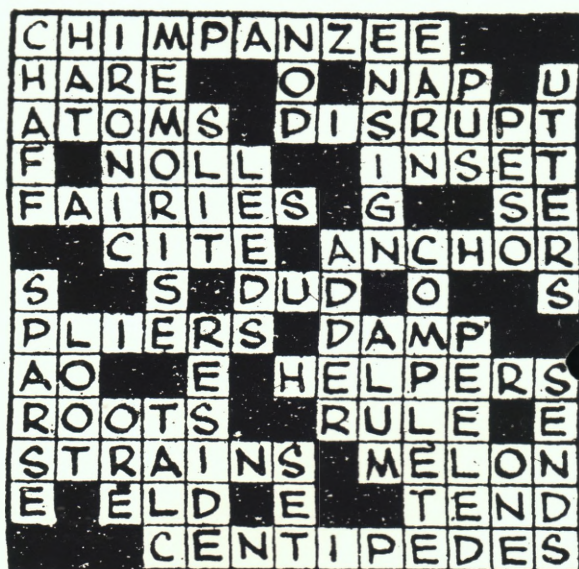
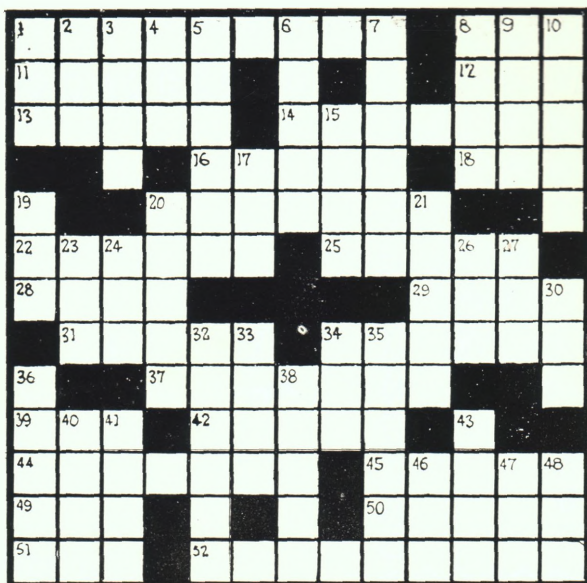
— Problem Page —

The result of Problem No. 45 is shown at right. Winner was Roger Seville (Colliery).

PROBLEM No. 46

Across

1. Game bird
8. Dexterity
11. Place of contest
12. Through
13. Tries
14. Contradict
16. Heave up
18. Prussian town
20. Allude to
22. Aim at
25. First sign of zodiac
28. Vegetable
29. Crustacean
31. Gum resin
34. It neutralises an acid
37. Enigmas
39. Fish
42. Glides
44. Fancy work
45. Plunge
49. Republic
50. Command
51. Colour
52. Animal



Down

1. Stroke
2. Part of verb "to be"
3. Relax
4. Explosive (Initials)
5. Slice of bacon
6. Number
7. One who compiles a publication
8. Church recess
9. Twenty quires
10. Appointed meeting
15. Continent
17. Unity
19. Flap
20. One who digs for minerals
21. Chips
23. Perceive
24. Mate
26. Age
27. Salt
30. Invite
32. Accident
33. Lazy
34. High mountain
35. One who grants a lease
36. Happen again
38. Key for raising the pitch
40. Irish Gaelic
41. Burden
43. Rough
46. Sphere
47. Body of water
48. Make a mistake