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The Student



Registered at G.P.O., Adelaide
for transmission by post as a periodical

Agricultural College

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Editorial

Each moment the knowledge of this world is expanding. With more to be known, man discovers he cannot possibly understand all that is available for him. Specialisation results; man becomes a Specialist.

At Roseworthy we learn to understand the skeleton of numerous fields of agriculture. However, each year the skeleton develops more appendages and it becomes increasingly harder, through limited time, to cover all aspects. This surely offers a good case for specialisation, particularly if we are to train men for extension services.

Being a master in a particular field, such men could demand better conditions of employment and could help fill more places in the work of extension.

The suggestion of a four year course involving one year specialisation is a sound one. It would enable more practical work in the primary years, a necessity of which I feel we are gradually being deprived.

The extra year could be made optional. Specialist courses may include agronomy, various aspects of animal husbandry, horticulture, engineering or economics. We have the facilities for specialisation here. Let's use them and benefit by them.

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Diploma List 1966



In Order of Merit

- 1037 Adrian Christopher John Smith
with second class honors.
1038 Barry Allan Lawes with second
class honors and a high distinc-
tion in Dairy and Pigs.
1039 Brenton Thomas Baker.
1040 Malcolm John Kuerschner.
1041 Richard Douglas Baldwin.
1042 Jeffrey Albert Gill.
1043 John William Herriot.
1044 Christopher David O'Donnell.
1045 Bryan Henry Thomas.
1046 Leonard Griffin Snell.
1047 Max Lyall Clarke.
1048 David Oswald Kleeman.
1049 Lancelot Bruce Thyer.
1050 James Roberts Cawthorne.
1051 Bruce Winston Shepherd.
1052 David Walter Kidd.

UNCLASSIFIED DIPLOMAS

Cocker, Peter Fenay
Mannion, Paul Francis
Sampson, Robert John

OENOLOGY DIPLOMA LIST, 1966

In Order of Merit

Archie Timothy Knappstein
David Bardick Dundas Ellam
Peter John Wall.

PRIZE LIST

THIRD YEAR STUDENTS

**GRAMP, HARDY, SMITH
MEMORIAL PRIZE:** M. Kuerschner.

Gold Medal (presented by the Royal
Agricultural and Horticultural Society for
the highest aggregate in all diploma sub-
jects): A. C. Smith.

Old Students' Cup and Prize (presen-
ted by the Roseworthy Old Collegians'
Association for the second aggregate in
all diploma subjects): B. A. Lawes.

Outside Work (presented by the
Albert Molineux Memorial Trust): M.
J. Kuerschner.

Practical Examinations (presented by
the Members of the Advisory Board of
Agriculture): A. C. Smith.

Morphett Prize in Dairying (be-
queathed by the late Mr. A. H. Mor-
phett): B. A. Lawes.

The Haselgrove Prize in Horticulture
(presented by the late Mr. C. F. Hasel-
grove): B. T. Baker.

Agriculture (presented by the Princi-
pal): B. A. Lawes.

**The Most Efficient Operator of Farm
Machinery** (presented by the Director of
Agriculture): R. J. Sampson.

Prize for Practical Farm Engineering
(presented by Caltex Oil (Aust.) Pty.
Ltd.): M. J. Kuerschner.

Sheep Husbandry (presented by Mr.
W. S. Kelly): A. C. Smith.

**Rudi Buring Prize for Practical Horti-
culture:** B. T. Baker.

**The D. A. Lyall Memorial Prize for
the best kept diary:** B. A. Lawes.

The Richard Maxwell Memorial Prize:
B. A. Lawes.

Farm Management (presented by the
Commonwealth Development Bank):
A. C. Smith.

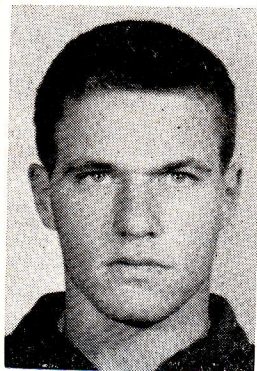
Oenology Diploma Students:

Gold Medal (presented by the late
Mr. Leo Buring for the highest aggregate
in all diploma students): A. T. Knapp-
stein.

Tasting (presented by Adelaide Motors
Ltd., in memory of the late Mr. R. H.
Martin): A. T. Knappstein.

Practical Examinations (presented by
the Wine and Brandy Producers Associa-
tion of S.A. Inc.): P. J. Wall.

Dux in Agriculture



SECOND YEAR STUDENTS

Dux of Year (presented by the Gawler Agricultural, Horticultural and Floricultural Society): J. H. C. Curlewis.

Second Aggregate Prize (presented by the College): M. J. Cooper.

The W. J. Colebatch Memorial Prize: J. H. C. Curlewis.

The Shell Prize (presented by the Shell Co. of Australia Ltd.): J. H. C. Curlewis.

Agriculture (presented by the Principal): M. J. Woods.

The T. G. H. Buring Prize in Horticulture: M. J. Woods.

The H. Wyndam Brown Prize (presented by the late Mr. H. Wyndham Brown for the highest aggregate in basic science subjects): M. J. Cooper.

Outside Work (presented by the Albert Molineux Memorial Trust): K. D. Westbrook.

FIRST YEAR STUDENTS

Dux of Year (Bronze Medal): J. R. Kohnke.

Second Aggregate Prize (presented by the College): J. S. Dawkins.

Outside Work (presented by the Albert Molineux Memorial Trust): J. R. Kohnke.

Agriculture (presented by the College): J. R. Kohnke.

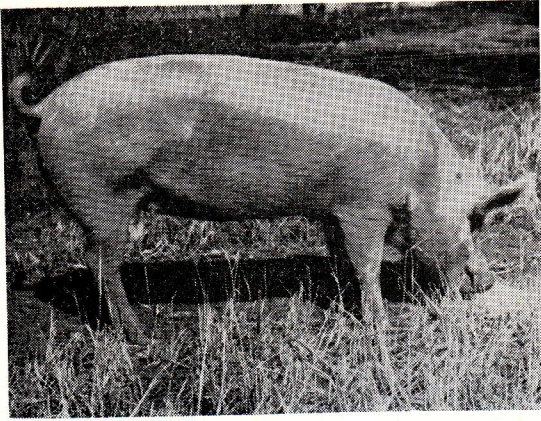
ADRIAN SMITH came to Roseworthy from Mintaro and, as he would have it, a land of milk and honey. His education prior to entering Roseworthy was at Sacred Heart.

It was evident, soon after he commenced that he had his eye on first position and put great store on being first in all things he attempted.

This was proven throughout his course, as he attained top place in a varied range of subjects.

In outside work, as well, he showed a keen interest and a capacity for physical work that his fellows found hard to match.

Since leaving, Adrian has returned to Mintaro and is obviously enjoying applying the knowledge he has gained. Just as he would not accept second best at College, we know he will not accept it at home and is therefore assured of success.



Pigs at Roseworthy

The College piggery was moved to its present site in 1954 after residing in the farm area for many years and causing many problems. This effected a great improvement but after a few years problems appeared. By 1963 these problems had become astronomical and it was realised that major changes would be necessary if the piggery was to be of use as an economic farm unit suitable for demonstration, teaching and trial work.

During early 1964 a major plan was drawn up to modernise the piggery over a 5 to 10 year period if finance was made available.

Plans were drawn up for a new farrowing house, resubdivision of the yards and conversion of the old farrowing unit to fattening pens to take 150 baconers, and a manure disposal and drainage system.

The farrowing unit is completed and working satisfactorily, the resubdivision of the yards is well under way and giving better control over breeding stock, disease and parasites.

With the introduction of a Large White Stud and an increase of the breeding sows to 45, there are still many renovations and improvements to be made yet.

The proposed breeding programme for the piggery is planned as follows: The 15 sow Berkshire Stud will be based on the Pamela, Elsie, Dainty and Helen blood lines.

The Pamela blood line are progeny of Maccalbyn Pamela 406th, a sow pur-

chased in 1962 from the Maccalbyn Stud of K. L. Davis & Sons of Strathalbyn.

The Elsie blood lines are the progeny of the Oak Excelsa 17th, purchased in 1959 at the Sydney Royal Show where she was Reserve Champion. Her sire, sired the porker carcass competition winners at the R.A.S. Sydney, 1959, whilst her dam was the Dam of the Bacon carcass winners R.A.S. Sydney in 1956 and 1957.

The Dainty blood line dates back to the Gattton and Lonepine pigs that were purchased by the College in 1949 and 1950. The Helen blood line is the progeny of a Gwenbank Helen, a young sow purchased from H. S. & E. M. Agnew of Mallala in 1964.

These blood lines have been selected on fecundity rating over the past three years.

A further 15 pure bred Berkshire sows will be kept to be mated to the large white boars. These sows will be selected from the above blood lines.

The greatest change in the breeding programme in the College Piggery is the introduction of the foundation stock to commence a Large White Stud. There has been much criticism on the appearance of the foundation stock purchased but it must be stressed that the foundation stock were selected on type, fecundity, lean meat production and food conversion ratios, the four factors so important, along with management, in achieving economic pig meat production.

Large White foundation stock are: Para Wirra Jewel 268th by Para Wirra Challenger 972 out of Parawirra Jewel 32nd. A very neat compact meaty type sow, exceedingly well grown for her age, whose ancestors have proved themselves not only in the show ring, but their progeny have scored well in carcass competitions. She was mated to Para Wirra Challenger 244 whose ancestors have outstanding lists of show prizes to their credit.

She farrowed a good litter of 10 piglets on 29th October, 1966. Red Pines Neffritite 448th by Almavale Peter 5th out of Oak Lynne Neffritite 30th. A very classy sow except for several in-

verted nipples. Both sire and dam have taken championships in Royal Shows, and she is mated to Red Pines Peter 433rd whose sire and dam are also Royal Show Champions.

Red Pines Jewel 463 by Oak Lynne Julius Caesar 10th out of Red Pines Jewel 240th is an outstanding little sow highly commended in the under 7 months class at the 1966 Adelaide Royal Show, a litter sister to the bacon carcass winners at the 1966 Royal Show and bred from a long line of Royal Show winners. She was mated to Attawhey Champion Boy on arrival at the College.

The Boar Attawhey Champion Boy 998th by Attawhey Champion Boy 803 out of Attawhey Flighty 635. His sire, a pure English blood line with outstanding progeny testing figures behind him, was imported in utero from New Zealand, and the litter of 12 (which averaged 42 lbs. at 56 days of age) had a food conversion ratio of 2.9:1 for the 115 days they took to grow from 42 lbs. average weight to 200 lbs. weight. His dam, grand dam and great grand dams have all got outstandingly high fecundity ratings. He is a very neatly put together boar and has a very high potential.

Attawhey Edella-EE 1006th is by Mounty Silver King 22nd out of Attawhey Edella 530. Not the usual type of large white but selected on breeding, fecundity, lean meat production and food conversion ratios. This sow was mated to Attawhey Silver King 922, a pure English blood line boar with outstanding progeny testing figures. Edella-EE farrowed a litter of 11 on 3rd October, 1966, and is rearing fast, nine progeny piglets which really make the type Berkshire piglets look short and dumpy.

Attawhey Flighty 1028th by Dairy Plains Tasman out of Attawhey Flighty 344th is a very nice type sow whose sire and dam have both been carcass competition winners. She is mated to Attawhey Silver King 939, a pure English blood line boar and full brother to Attawhey Silver Countess 1013th (by Mountley Silver King 22nd out of Mountley Countess 34th). This is a long lean meaty type sow with outstanding fecun-

dity and food conversion ratios in her records and was mated to Attawhey Tasman 928—farrowing a litter of eight on 27th October. Unfortunately one has to admit that everything is not perfect, she savaged the whole litter, possibly due to the fact that she was very disturbed just prior to farrowing by the never-ending stream of visitors being shown through the new farrowing house and piggery.

It is hoped that if all goes according to plan that in several years the College piggery will be the DEMONSTRATION UNIT for the S.A. Pig Industry as well as the course in pig husbandry at R.A.C.

During 1965/66 numbers were reduced considerably, 140 pigs in June, the lowest since November, 1960. Feed rations were changed during the year by replacing some of the meat meal previously used with fish meal and soya-bean meal, and the change over to delivery of feed ready mixed from the farm to the piggery in bulk is just around the corner.

Growth rates and food conversion figures have shown a definite improvement, due to many factors.

Stock numbers at 31st October—

Berkshires:

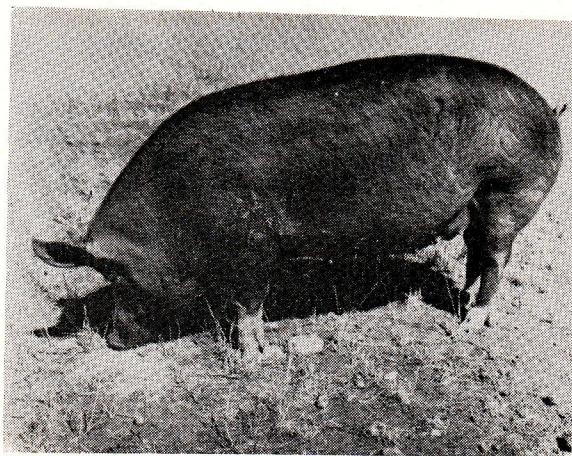
| | | | | | |
|---------------|-----|-----|-----|-----|----|
| Boars | ... | ... | ... | ... | 4 |
| Breeding Sows | ... | ... | ... | ... | 37 |
| Suckers | ... | ... | ... | ... | 50 |
| Weaners | ... | ... | ... | ... | 15 |
| Porkers | ... | ... | ... | ... | 92 |

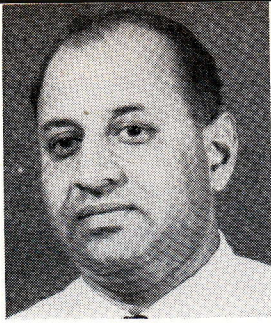
Total 198

Large White:

| | | | | | |
|---------------|-----|-----|-----|-----|----|
| Boars | ... | ... | ... | ... | 1 |
| Breeding Sows | ... | ... | ... | ... | 6 |
| Suckers | ... | ... | ... | ... | 19 |

Total 26





India Marches Ahead

**V. G. DESHMUKH—B.Sc.
(Agricultural Engineer)
Allahabad Agricultural Engineer
(Research) JABALPUR
Madhya Pradesh
INDIA**

B.Sc. Agric. Engineering from Allahabad University in 1946—from 1946 to 1954 Lecturer in Agric. Engineering in different Agric. Colleges giving degree courses in Agric—from 1954 working on small animal drawn improved agricultural implements.

Since Australia has started help to India in her food shortage, by supplying wheat, milk, etc., a great curiosity to know about Indian conditions appears to have been aroused amongst the people of this country. But it is seen that very little and correct information about India is known here. Unfortunately only some sensational and one sided news about India, such as floods, accidents, disturbances and droughts is received here through newspapers and not any other news about her progress and good events. Obviously enough, an incorrect picture about India, with numerous misgivings, appear to be prevailing in the minds of the people of this country. In fact, India is making her progress very fast in all spheres, despite numerous difficulties during the last nineteen years since she became independent in 1947. As such, a short account of India's progress in some spheres will considerably interest the readers of this country.

In order to assess the progress correctly, it is very essential to know some of the background and conditions in which all the efforts of progress are being made by India. In the first place, it should be remembered that India is a very vast country, just like a sub-continent and it comprises 16 big states, each one equal to a country in Europe in size and having as much population as that of the whole of this country. The whole of India is very

thickly populated having a population of 500 millions which exceeds, by more than 488 millions, the population of this country. At the same time there are a number of different languages and religions in India, each one having some difference in culture and customs from one another. Similarly, India has a very rich heritage of one of the oldest cultures and civilizations. This is the only big country having unity in so much diversity.

Further, it cannot be forgotten that India was under foreign rule for about 150 years till recently. As a result, she has been able to start making her progress in a real sense, only after she got her independence 19 years back in August, 1947, and that too under all difficulties and odds such as lack of capital and finance necessarily required for the progress.

As such, neither the task is very small and simple nor the period of 19 years is a very long one for the progress of a very large country. Moreover, India has wedded to the democratic principles and is the biggest democratic country in the world. As such, no forceful methods are being adopted, for making the progress unlike those in some countries. Similarly, it is also a non-aligned country—not aligned to any power group of the world. But even then she has to face the danger of war on her long stretched borders with Pakistan and China and has to keep herself in readiness all the time to defend herself, which is also a great obstacle in her way of progress.

Despite all these limitations and difficulties, India is making very remarkable progress with strides in all the spheres taking from industry and agriculture to education, research, health housing, etc. Particularly in the industrial sector, she has done great advancement in all the different branches such as iron and steel, heavy engineering, tools and machines, railway engines and weapons,

heavy electrical equipment, textiles, petroleum and so on. India is now exporting steel, diesel engines, railway wagons, textile goods and many other things to many countries.

In the research and scientific sphere, India is the only country having an atomic power station being used for peaceful purposes and exporting the isotopes to many other countries including Australia. Similarly she has many big research laboratories on each of scientific and technical branches, where valuable work is going on.

In the agricultural field she is making very appreciable progress in increasing her food production; but it is not distinctly spectacular due to some inherent limitations and difficulties and also a different agricultural set up than that of this country. Indian agriculture is mainly grain farming and not a mixed farming with pastures, cattle and sheep. She grows all types of grain crops like wheat, rice, pulses, maize, millets, along with many commercial crops such as cotton, peanuts, potatoes and sugar cane and has millions of acres under each crop.

The rains are quite high in most of the parts of the country ranging from 30 in. to 55 in. and even more; but they are not evenly distributed, as they are received within a span of 2 to 3 months between summer and winter i.e. July-August-September. The main crop of wheat is grown in the winter after the rains, on conserved moisture or on irrigation. Moreover the rains are also uncertain which will be evident from their failure for the last two successive years. As such an agriculture is mainly dependent upon the vagaries of the monsoon and the nature which is not very favourable many times.

Similarly the Indian peasantry is vast in number, spread in millions of villages all over the country. They are also unorganised, not well educated and financially not very well, unlike the industrialists. The holdings are also very small average, varying from 5 to 10 acres. As such, the Government has to put lots of effort to educate the farmers in the modern scientific methods of farming to

raise the yields of the crops and help them to adopt these methods by making available the requirements and by making many other improvements to give incentives to the farmers. The Government is already doing a lot in this direction. Most of the uncultivated waste has been cleared off and brought under cultivation during this last 15 years. Similarly a large number of irrigation and hydroelectric projects on many large rivers have been completed and millions of acres have been brought under irrigation.

Agriculture is mainly the State subject for administration, though the broad policies are formulated by the Central Government and every help is also given by the State Governments. The activities of the Agricultural Department in each State run under three wings: (1) Research (2) Education and (3) Extension.

Apart from very big Central Research Institute at Delhi, every State has its own research units and institutions, and a lot of valuable research is going on in all branches of agriculture—in agronomy, plant breeding, soil and agricultural chemistry, horticulture, engineering and so on. Many disease resistant and high yielding varieties of different crops have been evolved. Similarly in Agricultural engineering very useful and efficient animal drawn implements are being designed, developed and tested.

There are quite a large number of Agricultural Colleges leading to degree and post graduate course in each State and their total number in this country vary from 60-70. However, the agricultural education and research are being transferred to the newly started Agricultural universities in each State on the pattern of Land grant Colleges in U.S.A.

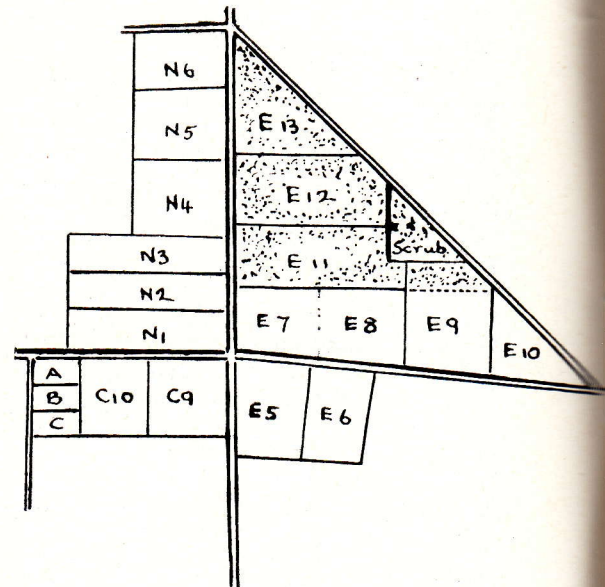
The work of the extension wing goes on in many ways. Firstly, educating the farmers on newly evolved scientific technique of stepping up the yields of the crops by mass media and active demonstration on farmer's fields as well as on Government demonstration farms. Secondly, making the improved varieties of seed, fertilizers, equipment and finances

available to the farmer through crops and other sources and lastly rendering the services to the farmers in heavy tractor ploughing, contour banking, spraying insecticides on large areas, etc. A big extension of machinery use in each branch of agriculture up to tillage levels in each State, has resulted in our agriculture production being increased by 35% during the last nine years. It is true that despite this large increase in our food production, this country has to face an acute food shortage in some parts due to some calamities like failure of rains for two successive years, and increasing population, but it does not mean at all that India is not increasing her food production by the use of modern techniques and not heading towards self sufficiency in respect of food. It needs a special mention of the fact that as a measure of self sufficiency in food, India is also trying to reduce the rate of growth of population and is achieving considerable success in this respect too.

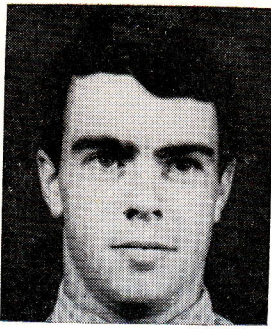
Before concluding this article, it will be most relevant to refer to the question of farm power in India, about which there is considerable curiosity. The main farm tractive power in India is the bullock and a number of animal drawn improved implements are used with them. A large number of big farms are being mechanised with tractor and power implements, but they form a very small proportion. A general contention appears to be prevalent in this country that complete mechanisation of agriculture is the only progressive way of increasing production. This is not fully correct. In the first place, the crop yields are increased mainly by improved techniques like improved varieties of seed, fertilizers, crop production, irrigation and not by machinery. The agricultural machinery, big or small, are only the means of applying these methods. They are also, of course, essential as they save time, labour and cost and facilitate timely operations. As such the utility of full or partial mechanisation depends upon the different conditions. In the conditions of this country, full mechanisation is a necessity, but not in Indian conditions. It

is neither advisable nor desirable. However, efforts to mechanise the farms partially with animal power is already going on and they are giving quite good results. As such, they need not be considered to be behind any progress.

(Ed. Vassant, a bright friendly person with a good sense of humour, stayed only a short time with us, but made many friends. This article explains India's progress and problems well. For this we would like to say thank you!)



Shaded area showing new land purchased.



Message from the S.R.C.

"The spectator sees more of the play than the player." This statement could have been the difference between the 1966 S.R.C. and that of latter years, as five new players, fresh from the spectator bench joined the field of six Council Members.

Lacking a little in experience in handling College Law and its affairs, backed by a complete lack of student enthusiasm, we gradually found our feet and, I feel from then on we never looked back. I think that it only took us a very short time to mould ourselves into a competent group capable of producing new ideas pertaining to College activities and life in general.

Our first change was to step the meetings up to 1 per month or as deemed necessary. The context of such meetings, usually unknown to the student body, were published accompanied by the Principal's reply.

It is imperative in an organisation such as this that every student must know exactly what is going on and what the student representation is doing.

During the first session, a questionnaire was completed by each student, pertaining to the rules and running of Roseworthy. The information gained has been valuable to us and an eye-opener to all concerned. Other activities during the session included the oval canteen changing hands from the Football Club to a separate Committee. This canteen raised \$140 during the season and the funds were split up by Sports Union.

The Intercol. sports teams were also subsidised to go to Wagga Agricultural College. I had the opportunity of accompanying these teams, during which all of the SRC's had a conference.

Despite what you, as students, may think, our Council and College are well to the fore in relation to our age, conditions and tertiary education and the

problems which we as Council deal with are equivalent to the other Colleges.

In comparison to some, our problems appear to be a minority. Also, we met the delegates of the new Australian Agricultural Diplomates Association and although this is only in its infancy, we will see a lot of this organisation in the new year, and years to come.

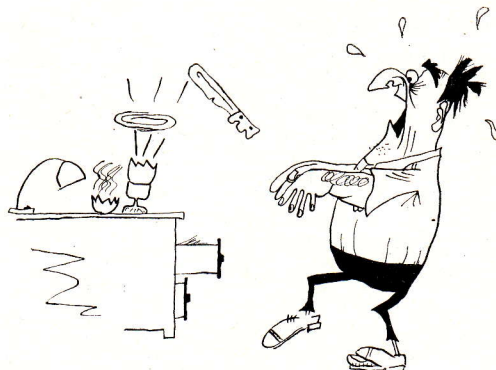
All graduating students should become members as it will be to their advantage.

The second session gave rise to Open Day and our success of 1,200 people can be attributable to each student backing us to the hilt and sparing nothing in promoting this College to the highest. The Principal and staff also gave every assistance in both help and guidance for the day.

I thank my Council whose dynamic help throughout the year has made the functioning of the SRC at least twice as efficient. I have thoroughly enjoyed my office and the help and companionship received from the other five members.

I sincerely wish that 1967 will bring bigger and better things of the Council with a greater student backing and I hope that it will strive to revive College spirit.

B. L. WIGNEY.

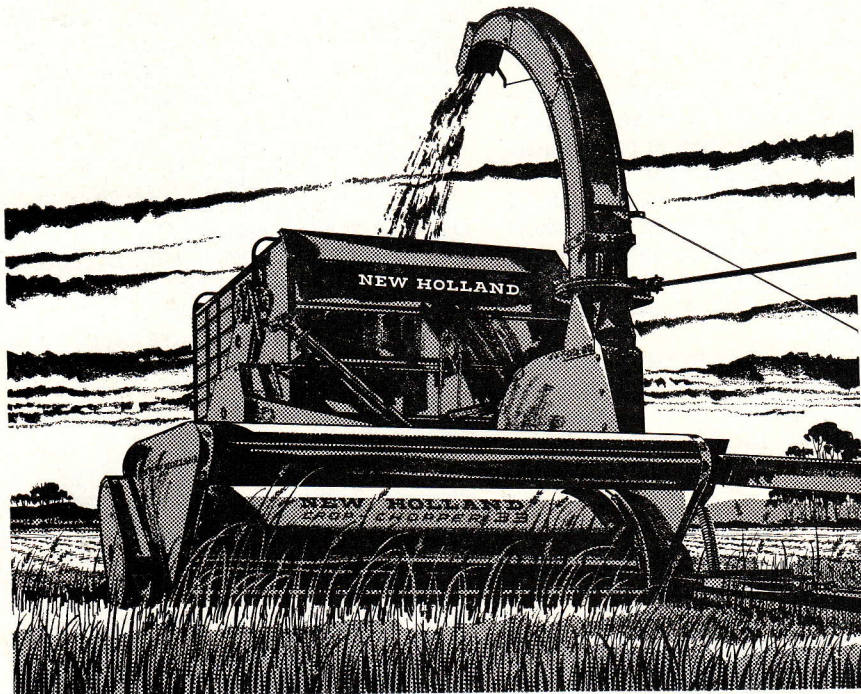


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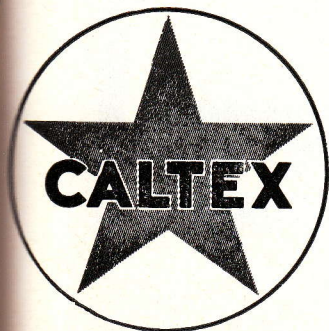


FARMER WITHOUT LAND

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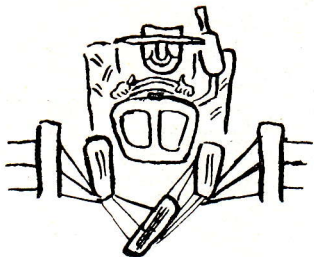
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Farm Diary



Again this year we have an increased area to farm, as 204 acres were acquired on 1st March. Two-thirds of this was seeded to Barrel Medic 173 and Harbinger Medic and has been refenced. A further 266 acres was also sown down to these medics and all these pastures have made a heavy seed set. This should assure future pastures, and an increase in fertility. This seeding of medic and the subsequent seed set, as well as a heavy seeding on other medic pastures, is the notable event on farm this year.

The hay cut has been most disappointing. Firstly, dry August conditions reduced growth and made early mowing necessary, then continuous rain for the second half of September spoiled hay already baled and the hay not yet raked. We have had to make up hay reserves from the cereals. Silage reserves were exhausted last autumn, but we could only make 200 tons in our portable bunker. This was completed while raking and baling were being held up by rain.

With paddock feed from medic residues and stubbles, hand feeding should be avoided until autumn when good quality oaten hay will supplement the dairy and beef cattle, and oats will feed the sheep.

Rainfall to the end of October is 1,240 points, 99 points below average. Crop yields promise to be about average, with Glaive, the latest College wheat release, promising to be the outstanding crop. The Gamenya we are using exclusively on leyland for feed wheat will yield well.

Last season Glaive (then grown as

R.A.C. 414) yielded best, giving 25 bushels from 18 acres. On leyland Gamenya held on under extremely dry conditions and yielded four bags. Oat yields were low; some acres of oats, and of wheat which failed, were cut for hay, and the best barley yield was 17 bushels from 23 acres.

Massey Ferguson replaced their MF65 on loan to us with an MF175 and we bought a MF165, replacing the Nuffield. The latest "dob wagon" is a Holden utility and the other Dodge will be replaced by a Holden shortly. Machinery purchases were a 3 pt. linkage mower, and a 9 ft. tiller, while we are still awaiting the delivery of a 16 row combine and a new post driver.



The seasonal conditions made it necessary to reduce the dairy stock numbers to an absolute minimum which was 71 in March. This is the lowest number of dairy stock on the College since August, 1947. The reduction was managed by the elimination of mastitis cows and young stock with below 300 lbs. B/F potential as J.2.

Due to the cropping programme and feed position, the milking herd have become long distance walkers to get to a paddock of feed.

During the year a prefabricated sick-stock, show stock and calf rearing shed was erected in the calf plots. The internal fittings, divisions and resubdivision of calf paddocks has yet to be finished, so in the near future calving cases requiring assistance will be attended to in the sick pens, not milking bails.

The bulk bin for dairy concentrates has been installed and it is hoped that modifications to the Nicco feeders in the

bails and the installation of an auger conveyor from bin to feeders will be completed early in the new year.

Soon there won't be anything for first years' to do!

In spite of the poor season, 43 cows completed lactations, averaging 286 days, and produced an average of 6,733 lbs. of milk at 5.5 per cent. fat test giving 370 lbs. B.F.

Stock numbers at 31st October—

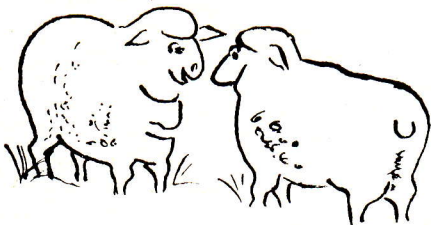
| | | | | | |
|-----------------|-----|-----|-----|-----|----|
| Bulls | ... | ... | ... | ... | 2 |
| Cows | ... | ... | ... | ... | 45 |
| Yearlings | ... | ... | ... | ... | 12 |
| In-calf Heifers | ... | ... | ... | ... | 14 |
| Calves | ... | ... | ... | ... | 9 |
| <hr/> | | | | | |
| Total | ... | ... | ... | ... | 82 |



In the period 1/7/65 to 30/6/66 a total of 32,272 dozen eggs were laid by an average of 1,685 hens.

Replacement birds for next year consist of 1,450 mixed crossbred and Australorps bought as day old chickens from Parafield and 1,000 crossbreds from a Gawler hatchery, 4-5 weeks later.

The former were raised to 4 weeks of age in the brooder room using the battery



"I'm perfectly safe with the one with the blue raddle—he's just a teaser."

brooder, hover brooders, and infra-red lamps, and then moved to the outside rearing yards.

The latter were put into the rearing shed in three groups under hover brooders, plus one infra-red globe per group. They were allowed full run of the shed at one month of age.

The group raised in the battery brooder have suffered the greatest losses and those in the big shed the least.



Sheep numbers as at 30th June, 1966:

| | | | | |
|--------------------|-----|-----|-----|-----|
| Merino Ewes | ... | ... | ... | 565 |
| Merino Rams | ... | ... | ... | 36 |
| Merino Ewe Hoggets | ... | ... | ... | 244 |
| Merino Ram Hoggets | ... | ... | ... | 157 |
| Dorset Horn Ewes | ... | ... | ... | 71 |
| Dorset Weaners | ... | ... | ... | 59 |
| Dorset Lambs | ... | ... | ... | 63 |
| Dorset Stud Rams | ... | ... | ... | 2 |
| Merino Lambs | ... | ... | ... | 402 |
| Rations | ... | ... | ... | 350 |

Total 1,949

Missing from the above flocks are the Merino-Border Leicester Halfbred Ewes, which were sold because of the adverse season.

During the Dorset Fair of 1965, two stud Poll Dorset Rams were purchased—one from Balmoral and one from Newbold Ltd. It is anticipated that the Dorset flock will be gradually increased in numbers as ewes become available.

In the Merino flock a further experiment has been laid out. With the Index (Fleece Weighing) Ewes, four rams used as 2 Tooth, will be mated again as 6 Tooth Rams, with the object of measuring rate of gain in fleece weight per generation. The visual ewes are split into two flocks, one of which we will con-

centrate on, developing a flock for multiple births by using rams born as twins mated to ewes born as twins.

With these flocks, nutrition, growth and wool weight can be measured—singles against twins.

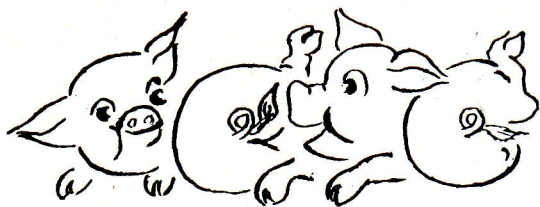
Despite the adverse season, wool quality, handle and weight, were very good at shearing. Merino lambs did well, although most were lambed on the feeders, and following early weaning (7-11 weeks) have made excellent growth.



| | | | | | | |
|------------------|-----|-----|-----|-----|-----|----|
| Bulls | ... | ... | ... | ... | ... | 2 |
| Cows | ... | ... | ... | ... | ... | 28 |
| Yearling Bulls | ... | ... | ... | ... | ... | 5 |
| Yearling Heifers | ... | ... | ... | ... | ... | 14 |
| Calves | ... | ... | ... | ... | ... | 21 |
| | | | | | | — |
| Total | ... | ... | ... | ... | ... | 70 |

Unfortunately the Royal Show results were not equal to the past few years, although our stock were of quite good standard. Poll Shorthorn quality in South Australia has made big progress in the past few years.

Beef Cattle Week, 1966, did not give the College any high prices, as all sales were appreciably lower than in previous years. We hope that 1967 will bring better results.



“Just between you and me—something stinks.”

This year has seen the erection of a new implement, tool and store shed replacing the old sheds which were dotted around the section before the new offices were built. The shed is 90 ft. long by 20 ft. wide and all equipment except that used for drying is now stored there.

New equipment for the section includes a hydraulically operated vine dodger, and a new spray plant which has a 60 gallon fibreglass lined lift mounted tank, a P.T.O. pump with hand guns, vine boom and vegetable boom. This replaces the old plant which was here for many years and had outlived its usefulness.

The garden has had a glasshouse added to it this year, this is a standard size and has been used this year to grow tomatoes and beans.

Major alterations in plantings on the section include the removal of non-productive bushvines in V & OS and V & OE and an additional planting of one acre of Semillon in V & O Home and 25 apricot trees. The V & OS vineyard had 500 misses replanted as well as many layers for replacement.

Yields from the section were down slightly on average, with non-irrigated vines having little or nothing, irrigated vines produced record yields.

Young peaches are increasing their production and the apricots produced a good average crop. The citrus were fair this year. All production was reasonable with the restricted water available.

In the near future we will have a new dragline hose irrigation system for our V & OS vineyard replacing the laborious shifting of portable pipes over 4 ft. trellises as well as demonstrating an alternate method of irrigation.

Replacement of existing dryland vineyards will probably begin next year.



"The best laid plans o' mice and men gang aft agley. . . ." so wrote Robert Burns, great poet, philosopher and humanitarian; and the past year has proved that the affairs of this Laboratory are no exception. Despite the forecasts in the 1965 edition of *The Student*, as to what 1966 may or may not have held; quite early in the year Mr. C. Bungey's serious motor accident, and more recently Mr. Jack Wood's departure to other spheres of operation in Adelaide have certainly had their repercussions. Owing to staff shortages the work has been a continuous struggle to keep up with the routine committments.

Some proposed experimental work was not started. However two important decisions were made regarding the work: The Principal, called and chaired a meeting to discuss the analysis and puplication of the now completed Merino Selection Experiment; and also to look into the aspects of future experiments involving this experimental flock.

Those attending the meeting were The Prinicpal, Mr. R. I. Herriott; Dr. G. Mayo and Mr. O. Mayo of the Genetics Department of the University of Adelaide; Messrs. C. Mulhearn and J. Potter of the Department of Agriculture; and Mr. C. Hooper and Mr. R. Brady of the College.

Regarding the completed Merino Selection Experiment, Mr. O. Mayo, has undertaken to analyse and write up the various data for publication; while the experimental approach, put forward by Miss Helen Newton-Turner, of the Mc-Master Laboratories of Sydney will be used in new experiments.

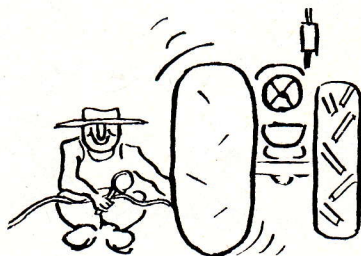
Apart from the above aspects, and the lack of staff, the work committments

have increased and continue so to do.

It was necessary to seek assistance of some officers of the Department of Agriculture for a short time to cope with the peak period of some of the seasonal routine work.

Miss H. K. Barkley and Mr. N. Leaney of the College Office Staff have also given valuable assistance during this time.

Apart from those activities related to Wool, of course, there has been the preparation of dissection material; the conduction of feeding trials; the photographic work for various sections; and a hundred and one odds and ends, which have kept hands and benches constantly more than full.



The event of the year for this section has been to see the fruits of much labour in the form of the first plans of the new Agricultural Engineering Centre as prepared by the Public Buildings Department architects.

The contractors, Marshall & Sons, have wasted no time since they commenced on the site (where the old shearing shed and yards were), the drains and some of the foundations having already been laid by November.

Purchase and construction of some models and equipment for the new buildings was commenced, the most notable being a working three-point linkage model, complete with inspection panels; whilst one of the third year projects this year includes the construction of a demonstration 32v generating plant.

Talks given at Buchanan, Angaston, Rosedale, Wynflète Bureau (which visited the College) and at the College Farmers' Day, and a Farm Machinery Gadget day at Palmer (judged by Mr. Quick), all indicate a lively interest being shown by

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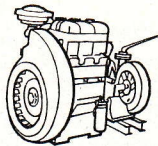
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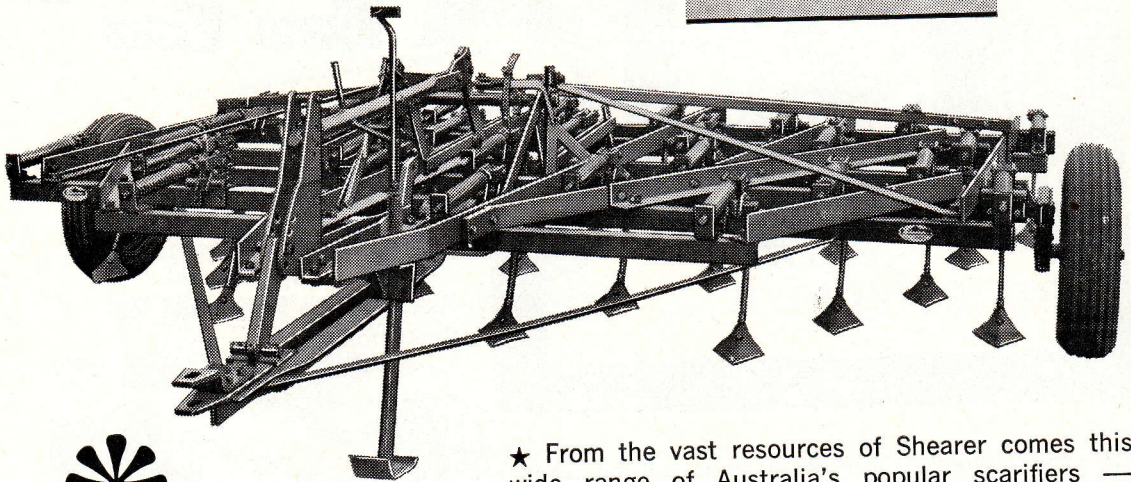




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WC/378

farmer groups in agricultural engineering activities, particularly in the field of tractor safety.

In May this year this subject became news-worthy with an announcement by Mr. Kneebone, Minister for Labour and Industry, following a spate of tractor accidents, which resulted in several press releases and a TV appearance by Mr. Quick, whose speciality has been tractor safety.

Educational assistance was given by the following concerns: C.I.G., by presenting a full day's welding display to Second Year; Robbys (aerial agriculture evening); Caltex and S.A. Tractor Co. (safety films and demonstration items); Ford and Massey Ferguson for the loan of a tractor for field testing. This set of tests proved of much value to the section and the farm, by providing data not otherwise available, on the field performance of these two tractors. To accomplish these tests, an instrumented trailing dynamometer vehicle has been constructed.

The additional loading of a service course of lectures in basic engineering to R.D.O. students and the commencement of the University B.Agr. Science "Engineering for Agriculture" now given to Fourth Year students, in Adelaide, has called for Mr. Quick to re-shuffle instructional time-tabling within the section. Extra lectures are being given by Mr. Burrell and Mr. Sutcliffe and the mechanics are now undertaking the welding practicals with competence.

The section's building programme has included the completion of a farrowing and nursery unit at the piggery, temperature control being achieved by the design.

Also, a general purpose steel framed building at V & O, an elaborate sheep dipping unit and bull shelters and a steel-framed stock rearing shed for the dairy section.

Turnout from the workshop has included a new road roller, improvements to the new spray cart and the silage grab, the IHC seed drill, and harrows, and the usual very large programme of maintenance and overhaul to College vehicles and machines.

New items added to inventory have included a steam cleaner and a portable spot welder.



The Oenology course at Roseworthy is continuing to advance with the induction of eight new students. All the major winemaking states of Australia are now represented.

The year got away to a good start and although the yield from the vineyards was not as much as we would have liked, some excellent wines were made—the dry red wines were outstanding this year, and we would like to thank the viticulturalist for the excellent material provided in spite of some very difficult conditions of drought which were experienced during the latter part of the growing season. Dry white wines were also of excellent quality.

During the year the cellar has had a face lift and all plant and machinery has been overhauled. Various sections of the cellar were painted, as was the still house, and repairs were made to the still. The boiler has now been retubed, and is in excellent working order and ready for the next distilling season.

We were fortunate in the acquisition of a new filter and a centrifugal pump which will make the intended larger vintages much easier to handle.

The refrigeration plant was also overhauled and is now doing an excellent job in the preparation and stabilization of wines for bottling by the students.

At present we are looking forward to the commencement of the building of the new winery which we hope will get under way before long. This project would complete the oenology course in disciplines which it now offers prospective students both from within Australia and abroad.



Mr. M. R. Krause resumed duties as officer in charge of this section in February, 1966, after 19 months study leave at the Washington State University, Pullman, Washington, U.S.A. Whilst away he made a particular study of three phases of wheat improvement, namely the semi-dwarf growth habit in wheat, hybrid wheat and mutation breeding.

Mr. G. J. Hollamby, assistant plant breeder, has been granted leave of absence for 12 months from 1st July, 1966, to enable him to attend the special plant breeding training course provided by C.S.I.R.O., Division of Plant Industry, Genetics Section, at Canberra. The support of the Wheat Industry Research Committee of S.A. has enabled Mr. Hollamby to undertake these studies.

Current Programme

Although the initiation of new crosses has been somewhat curtailed over the past two years, both because of a reduced staff and the pending introduction of new germ plasm on which extensive work is planned, the testing programme of junior and more advanced crossbred lines continued at the usual level during the past 12 months.

At Roseworthy, in addition to variety trials, 115 crossbreds were tested in senior and junior trials and 80 were yield tested for the first time as F5's.

Crossbreds were again tested at Palmer, Stow and Farrell during 1965-66, but due to the dry season yields were below average at all sites except Stow. In addition to these three sites a limited number of very promising advanced lines were included in Departmental and Indicator trials.

Current prospects are for average or better than average returns at all sites except Palmer, where limited rainfall has restricted development and below average yields are forecast.

Registration of New Variety

Application for the registration of the new variety, Glaive, was officially made during 1966. It is felt that this adaptable variety which has given consistently good yields over a number of years in a range of environments should prove a useful addition to the commercial varieties in S.A., particularly the medium to low rainfall areas.

New Introductions to Programme

New approaches and genetic material being introduced into the wheat breeding programme include—

- (a) Extensive work with semi-dwarf wheats.
- (b) An attempt to induce genetic variability by the use of chemical mutagens.
- (c) A preliminary look at the possibilities of hybrid wheat.

As a basis for the work on semi-dwarfs, a considerable quantity of genetic material has been introduced from Mexico, Chile and the following States of the U.S.A.—Washington, Utah, Montana, Idaho, Arizona and Minnesota.

A considerable number of crosses and backcrosses have already been initiated using the more promising of these lines with what are currently the best commercial varieties available in S.A., viz., Raven, Gamenya, Heron, Insignia 49, Gabo, Sabre and Glaive.

As a preliminary to the introduction of some mutation work using chemical mutagens, several S.A. commercial varieties were treated with di-ethyl sulphate at Pullman, Washington, and the M2 generation is currently being grown under quarantine.

Both cytoplasmic male sterile material and lines carrying the Nebraska and Kansas restoring genes have been introduced. For the present it is intended to begin the production of male sterile lines of several recommended commercial varieties and also to incorporate restoring factors into some of them.

Pure Seed Production

The 1965/66 season being a poor one resulted in a considerable reduction in the quantities of pure seed available for distribution.



This year it was stimulating, to Old Scholars in particular, to have back in S.A. on a number of occasions a previous Principal and Director of Agriculture, Dr. A. R. CALLAGHAN. One of these highlights was his attendance at Speech Day here at College and his obvious delight at the opportunity of addressing other people interested in Roseworthy.

In his address as chairman of the Australian Wheat Board, he stressed the challenge facing young men of the demand of an ever increasing population (6,000 m. by 2000 A.D.) for food.

As Commercial Councillor in Washington, Dr. Callaghan said he gained an appreciation of the responsibility in the world of the U.S.A. Their surplus grain, so long a problem, had dwindled in the last year; 900 million bushels of it going to India alone. The annual requirement of this country, he pointed out, was two Australian wheat harvests.

Asking to be excused for reminiscing, Dr. Callaghan spoke of his old students who had given their lives during World War II and of the enjoyable years he had while Principal here.

Reporting on the activities for 1965 Mr. R. I. Herriot, the Principal, complimented students generally on the steady work throughout the year and indicated that 1966, on entry standards, should be even better.

Listing achievements of 1965, the first big achievement was the planned Biological Laboratories and new Agricultural Engineering buildings to be commenced in late 1966. Other improvements in the building line were the completion of the remodelling of the wine cellars, a fire isolated records room at the Animal Production Laboratory, a new toilet block at the oval, new rearing shed for poultry, new shearing shed, new bull yards and a 14 sow farrowing shed of unique design at the piggery. Refencing is going on continuously.

Mr. Herriot pointed out that in addition to 260 acres previously purchased, another 202 acres on the N.-E. boundary had been purchased.

The Principal welcomed back the Vice-Principal, Mr. Krause, R.D.A., B.Ag.Sc., M.Sc., who, under the Farrer Memorial Scholarship, completed at Washington State University, his Master of Science Degree.

As would be expected of those who know Mr. Krause, a glowing report on his academic work and his association with his fellows in Pulman, came from the Chairman of the Agronomy Department of that University.

Another event in the life of that College, said Mr. Herriot, was the retirement of Mr. B. C. Philp after 45 years at Roseworthy. The affection with which he is regarded stems from his willingness to assist Principal, staff and students alike. The Principal's statement, "Roseworthy won't be the same without Philpy," will be echoed by many.

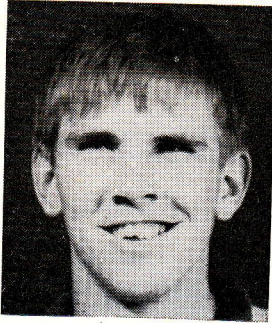


"Click go the seatbelts."

Graduates of 1966

*Classification according to the Good Life Ratio — Wine:Women:Song

*(10:80:10)



IAN ANDERSON

“Andy”

This blue-eyed Scot deserves the full honours of being nominated number one rabble rouser of the year. Andy is the one who makes the first spark and then disappears to a dark corner to watch the rabble flare.

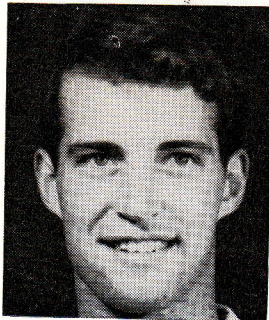
His knack of getting out of trouble is well known, and a good example of this was when we discovered that we shouldn't use washable dyes when initiating him to the B.B.C.

Lately he has graduated from a Jawa to a Rolls, but due to fluid suspension on all wheels, it has its ups and downs.

Andy knows what it's like to be a girl, and it is probably due to his intimate knowledge of the fairer sex that he has had a very successful year.

Vet. Science is one of Andy's interests, and we could see him in this field.

*(5:90:5)



RICHARD CARTY

“Dick”

Premature at birth, he has been making up for it ever since. The words “late” and “Dick” are synonymous.

If Dick remembers to attend lectures, he provides us with time to sit back and relax while he attempts to convince the lecturer that he is not convinced.

The medical profession has been shocked by Dick's persistence to prove that the tip of the left index finger has no use.

In contrast with his compatability with women, Dick has never attained the same quality with the A.P. Lab. He is a golfing enthusiast and enthalls in belting balls from hole to hole. He was also a member of our victorious Intercol rifle team.

Apart from women, his aim in life is likely to be directed towards journalism.

*(50:20:30)



TONY CLANCY

“Tee Cee”

T.C. is one of the strange river mob who is strongly patriotic to that mysterious portion of the State.

The humorist and gifted artist of the year, Tony always has some bright ideas. He was one of the honoured sewerage dam shareholders until the company went insolvent.

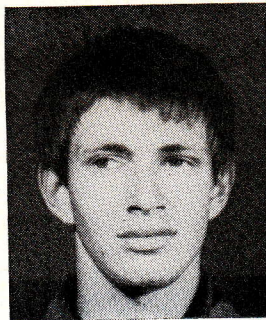
A budding artist with both tongue and pen, T.C. became the only pregnant moll to waltz his way down Murray Street. His non de plume became quite well known during his grand job as our Bunyip football reporter.

T.C.'s pale appearance one morning on the Northern Trip raised suspicions on his doings the previous night.

Okay, we all make mistakes, but when someone is told to go through the scrub with the slasher, you'd surely realise he meant the track through the scrub.

His aim in future life is to raise Berkies on Clingstone peaches.

*(10:50:40)



DAVID COOPER

“Speed”

The amazing feature of Speed is that he views life at a different angle from everyone else.

Sarcasm is one of Speed's channels of amusement and makes his presence known by coming out with some bright statement when it is least expected.

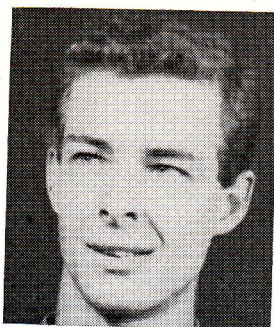
An entomologist with Bohemian tendencies, Speed is an ardent admirer of jazz, voga, psychology and B.S.A. “grinders.”

Speed, on many occasions, has stayed up all night, either studying or giving his “cycle” a colour change. This capability has been recognised by the municipal council, who have approached him to join their team as nightman.

A member of the S.R.C., Speed is an accomplished high jumper with a fancy for tall women.

Next year Speed will travel to Western Australia on his motor-bike with a few of the boys. The veterinary field is likely to be Speed's interest in future years.

*(1:4:95)



MARTIN COOPER
"Father John"

Father always takes a view contrary to everyone else, and you're wasting your time telling him the world is round. Of course it's flat!

A great mechanic, he revels in bamboozling everyone with his engineering thoughts. Rumours have it that John agreed with Quickie once, but this is hard to believe.

He is our canteen manager and the hope of the year in getting to that hallowed place.

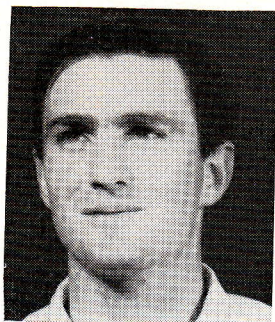
The Adelaide Show, 1966, was one of the brighter times of Father's life when he let his hair down and raced off with one of the fairer sex.

Although he is forever looking dehydrated, he assures us that his natural oils preserve him most efficiently.

John has to be admired for his friendly attitude to everything and his knack for getting on with anybody.

Eventually in life he will be advising Papuans on how to grow nuts.

*(90:5:5)



JOHN CURLEWIS
"Colonel"

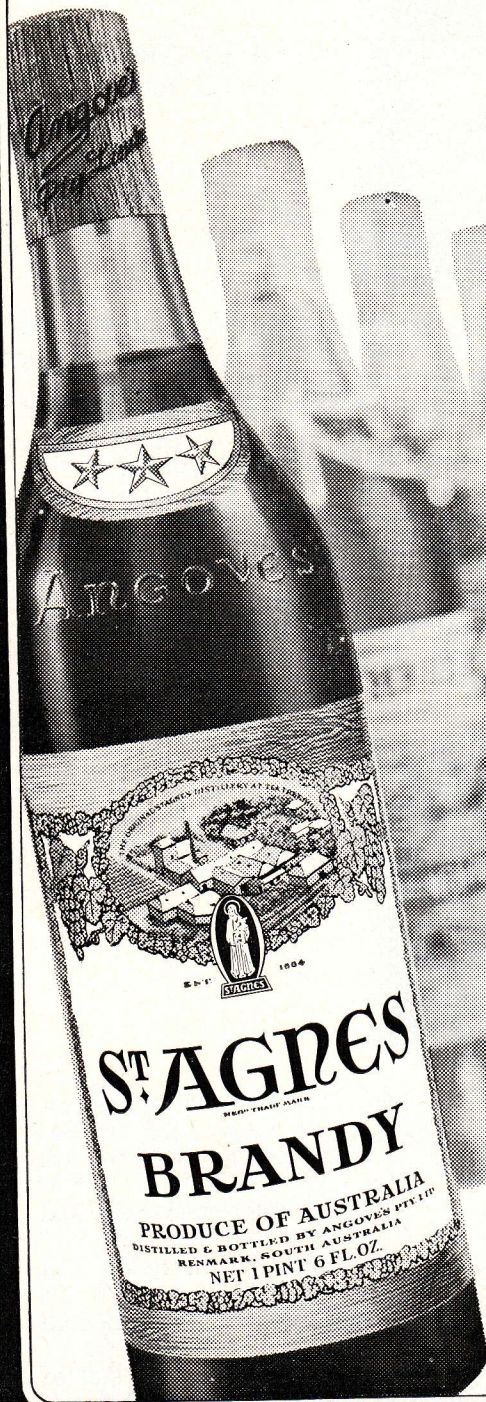
Colonel is a great monarchist, presenting a stiff upper lip to all intrusions. A white racist who has very strong principles on every topic, he was S.R.C. in his first and second years. At the end of second year he found the will of "the boss" a bit telling and so resigned.

He is an all-rounder, being the A grade full back, water polo back and wicket keeper of great renown.

Colonel has the most expensive mileage of any vehicle on the road. This is registered on his matchless mop.

J.H.C. was finally fouled up at the E10 party, from which he was honoured with a ride in the Boss's car.

Thoughts were that he may try to get a job as a grenadier guard so that he could see more of "her." However, Squire Curlewis's future is tied up with Sandgroper land, although he is all over Ord with S.A.



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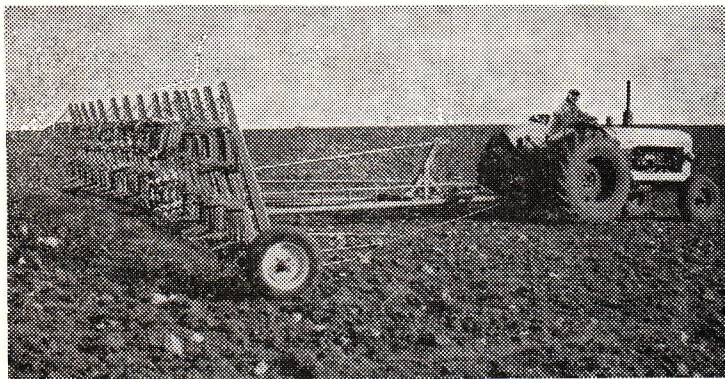
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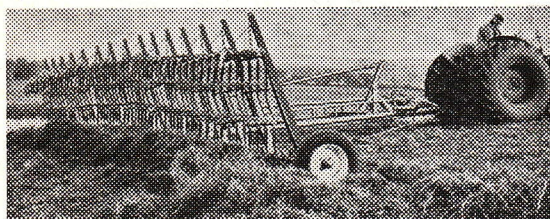
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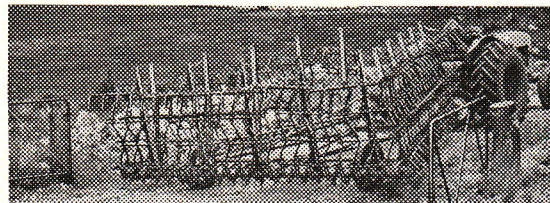
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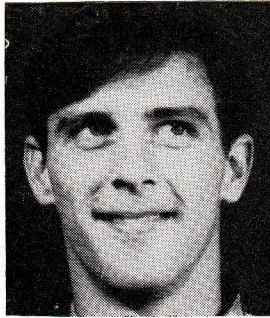
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*(90:5:5)



MICHAEL FREEMAN
"Mick"

Mick is that kind of bloke who always enjoys a bit of fun but is able to put his mind to work and think logically when the necessity arises .

A fully qualified womaniser, Mick finds no trouble in "rounding up a bird." His fictitious name, Densley Fuller, is still whispered by many lonely maidens.

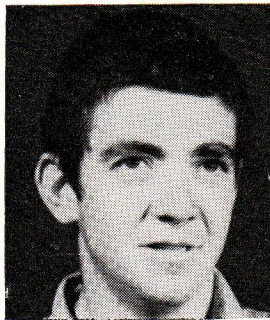
The S.A. Rubber Mills, the makers of Albany and the Australian Wine Board wish to extend their thanks to Mick for increasing their sales during his stay at College.

A very enthusiastic rifleman, he was captain of the victorious Intercol rifle team.

Mick is a good worker and much of his interests are placed in beef cattle. He was supposedly guardian of the College stock at the Show.

The future of this Wellington wonder will most likely be tied up with tending the bovine. Profit or not, Mick will be happy.

*(45:45:10)



KEVIN KEAIN
"Toothy"

The man with the amazing choppers and the only member to be the proud owner of such.

Toothy hails from Spalding and not from "Back o' Bourke" as most people think.

Never one to get on with the authorities, he was given a month's holiday (along with others) for just such a thing.

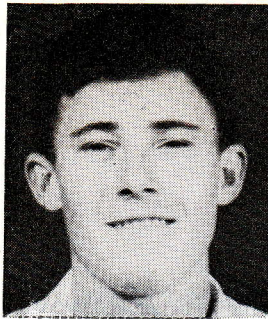
Very prone to missing lectures because of somnia, Tooth is either catching up notes or patronising penalty week-ends.

Kev and his car have excellent patability, although one had to leave the other for a short period this year.

Captain of the tennis team to win Intercol, and the famous statistician for football, Toothy is a worthy member of the year.

His eventual end is very doubtful and depends upon who accepts him. However it has been heard that his parents may let him come home again to their property at Spalding.

*(98:1:1)



JAMES KLINGBERG
"Dags"

Jim, the only square-head of our year, attacks with fervour every vice, whether it be wine, women or study.

A "B" grade footballer and cricketer, he participates in these mainly for the side benefits.

Jim's association with one lipping lady was terminated swiftly when several fellow students thought it best. On early Sunday mornings his mighty Austin can be heard coming in at "Sparrow F....t"

James is one of the few to know that Little Pattie does more than sing.

The baby of the year, he is one to give the older members of the year plenty of trouble when he gets moving.

Dags has vowed never to use polypropalene irrigation but will still be associated with horticulture. He will probably be seen trying to improve his father's property at Loxton next year.

*(30:65:5)



JON LAWTON
"Bookie"

Bookie would be one of the best all-rounders to pass through the College, and won the Lauke Trophy for such in 1965.

This big lad has excelled himself in football, tennis, cricket, athletics and the greasy pole. His strongest sport would be elbow bending.

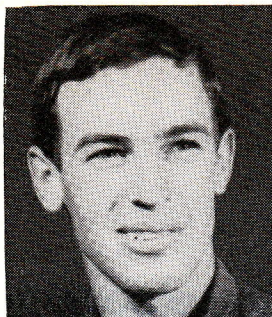
When Jon can't be seen, he certainly can be heard, and this seems to keep his name in the black book.

"Some Enchanted Evening" is Bookie's serenade and just what happened that night we would all love to know.

He has been in everything, whether it be good, bad or indifferent, and has been a great College man. (Not everyone has been out wombat hunting five minutes before he's due to leave on a River trip or scrub clearing Kangaroo Island in an "Inter".)

Bookie's immediate future will include a trip to Western Australia.

*(10:80:10)



CHRISTOPHER MCGOWN
"Mac"

Magoo has amazing powers of concentration, and generally begins his final preparations for exams six months earlier than anyone else.

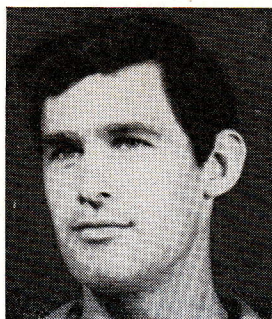
For Mac, the Honda Dream has turned out to be a nightmare.

His fidelity for another "Chris" faltered briefly at the Show where he was almost seduced by an apprentice nymphomaniac. It was only three years of concentrated ju-jitsu training that got him out of a sticky situation. Often the victim of practical jokes, his exasperated cries of "Merckenschlager!" disturb the general quiet of the senior building.

Mac's sporting activities have been rifles and the javelin.

He has had several slight misunderstandings with his superiors and as a result of experience gained, his future will possibly be one of grave-digging, road making or stone-picking; but whatever he chooses, he will undoubtedly make a success of it.

*(10:80:10)



MAX
MERCKENSCHLAGER
"Maxie-Merk"

Methodical Max is a former bank clerk who is the oldest member of the year and is meticulous in everything he does.

A real College boy, Max is an agile wingman, athlete and breaststroker.

A body building fanatic, this former King's Cup oarsman certainly pulls more than his own weight around the College.

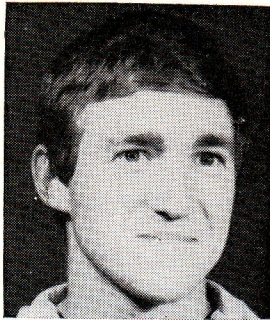
Max's favourite pastime is keeping McGoo under control and often the frustrated cries of "McGown!" are heard when jokes backfire on him.

Max's views on Christianity, sex and rowing are quite definite, especially at certain yearly functions.

The third year's financial status is looked after by Max, who has helped to get the first Graduation Ball under way.

We congratulate Max and Jackie on their engagement and wish them well. Already Max has gained a position with Noske's at Murray Bridge.

*(10:90:0)



ROBERT OSBORNE

“Oz”

Oz is one of the smallest but liveliest members of the year.

Being interested in ornithology, he is at present doing an intense study of the Robin Red-breast, studying its antics under all circumstances. The habitat of this bird in both summer and winter, contrary to all literature, is Gawler.

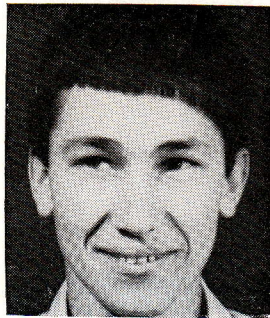
Bob was honoured with a month's holiday last year for helping to give a first year swimming lessons.

Experience with his assignments has taught Oz that the easiest way is to revise the aim according to the results.

Versatility is Oz's main attribute, whether it be tackling football, cricket, tennis or the opposite sex. Oz was a rover with this year's A-grade football team.

He is not sure of his future but has decided to make a trip around Australia, starting with W.A. We expect to follow Oz's tour by the destitute mothers left in his wake.

*(5:90:5)



DAVID PANNACH

“Sharky”

Another River production, Sharky was delivered at Roseworthy College in 1964 for the purpose of learning Horticulture.

David has excelled in swimming, being the captain of the water polo team, and also in football, where he was captain of the B grade.

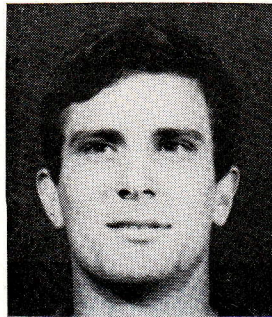
He was the only unfortunate to be called up this year, and may find it hard to accustom himself to military discipline next year. He has been named as the number one security risk of the year.

Dave's faith in his A40 is phenomenal. In fact, it's pathetic.

However, his vehicle does seem to get him to and from the Gawler nurses' quarters, where he spends many evenings playing cards. Or so he says.

On completing National Service training, David is most likely to return to the horticultural industry.

*(10:80:10)



KEITH PATTINSON
"Patto"

The main thing we remember Patto for is football. He was captain of the premiership team and showed powerful leadership.

Patto played two matches with Glenelg during his holiday break again this year, and earned two Magarey Medal votes.

Water polo and athletics have also been his sporting interests.

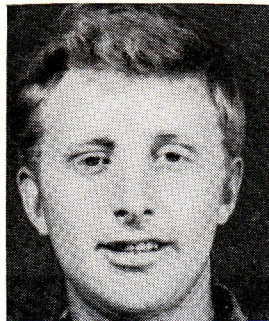
The nudist of the year, he also has a touch of Boong in him. The boys are looking forward to seeing little brown-faced blonde-headed surflies in future years.

Patto's liking for blonde women with that "natural" look is well known.

If ever there is a job for our year to do, Patto will be the first one there. If ever there is a yearly function on, Patto will always be close behind Humpy.

Next year Patto will probably take on valuation, in between playing footy for the Bays and looking after the family.

*(5:5:90)



IAN PICKETT
"Pick"

Ian is broadly known for his ability to spin endless reams of jokes. Mainly filthies.

Pick revels in the art of showmanship, and all social activities. However, his bass singing is not wholly appreciated, especially by Tooth.

Football has been Pick's main sporting interest at the College, but basketball is his ultimate in sport.

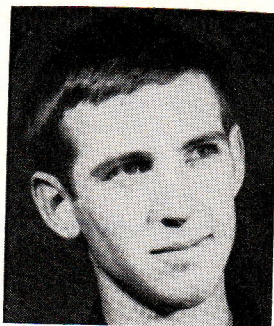
Not only singing like a vulture and looking like one, he also takes a great interest in the poultry game.

The latter part of this year has seen the downfall of Snozzles. He fell head over heels in love with a broad and we haven't seen him on a week-end since.

Over the three years, Ian has done his best in everything he has lent his hand to. This will undoubtedly continue in future life.

Pick's future will definitely be associated with poultry.

*(60:40:0)



KELVIN WESTBROOK
"Fritz"

Fritz's other nickname, "Jason," was earned because of his frequent visits to the Golden Fleece.

Football and tennis have been Kel's main sports at College, although elbow-bending ranks high in his activities.

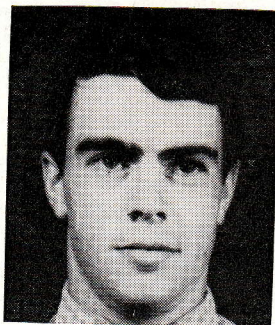
Fritz is also a sewerage dam shareholder and was granted a month's holiday by the directors last year. Identification of farm paddocks was another duty cast upon Fritz.

The main aim Fritz has had at College is to learn something, but at the same time to enjoy life. If Fritz hasn't had a good time since he's been here, then no-one has.

We are envious of his ability to attain good marks in examinations with the least possible amount of work. He also amazes us by the fact that he has been going steady for two years.

Fritz will be working on his father's property at Pata next year.

*(10:50:50)



BRUCE WIGNEY
"Wiggles"

Chairman of the S.R.C., Bruce has lead the student body admirably throughout the year.

Wiggles participated greatly to the success of this year's Open Day and always has a finger in everything that's going on.

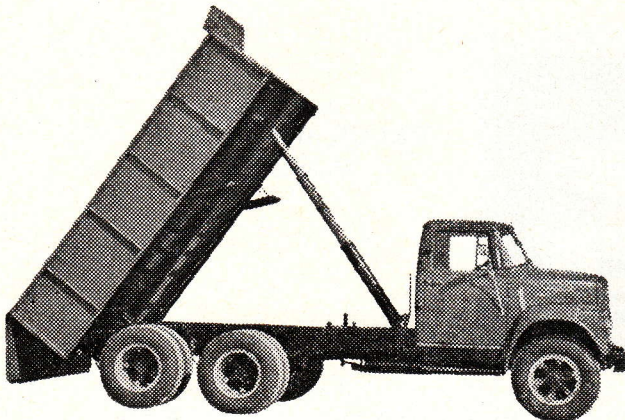
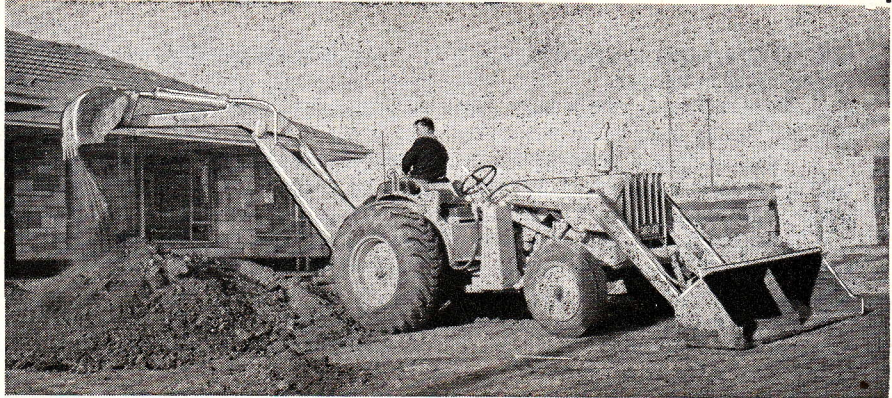
Football has been one of Bruce's interests, and was an active member until an ill-fated shirt-front resulted in concussion. Our wingman of the future was unable to play football for the rest of the season. However, Bruce still managed to handle his drums and Jo-Jo without showing any side-effects.

Although he hails from the city, Bruce prefers to be called a countryman as he has spent much time working on clover production in the South-East.

Pig farming is undoubtedly Bruce's future interest and he will probably end up being the little Hitler of the pig industry.

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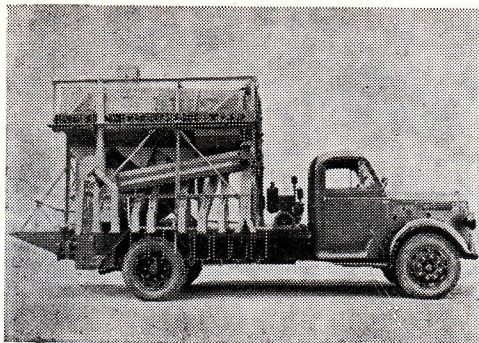
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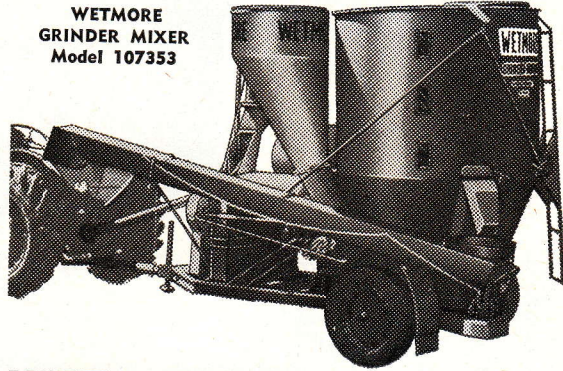
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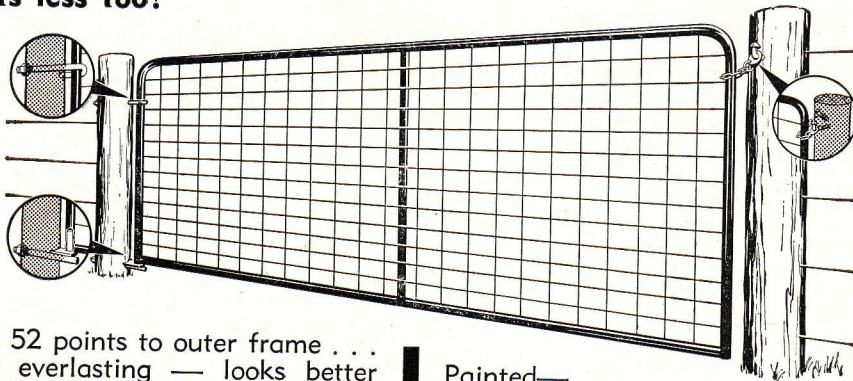
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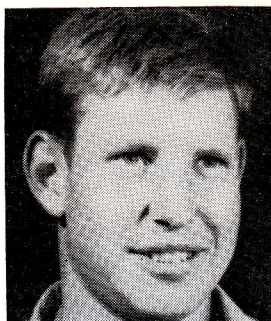
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*(70:20:10)



MALCOLM WOODS
"Stomper"

Mal is known for his large stomping stride and the bulky redhead has thus earned his nickname.

A barman for many a show, Mal, who is normally very quiet, becomes very talkative as he urges us all to wake up and drink.

Big Red has excelled in football and cricket as he has played hard and worked hard over his three years at College.

Mal makes many trips to Gawler for various escapades, although he never informs the boys of his achievements.

Before coming to Roseworthy, Mal was an Elders man and quickly settled down to work in his first year. Both scholastically and in the field, Mal works hard and we feel he will be rated high in the diploma list.

Mal is not sure of what he intends to do immediately on gaining his Diploma, but will eventually seek a share-farming partnership.

Third Year

Well! At last we have reached the climax to our three years' internment. Most of us will be glad to get out into the big wide world, but there will be a lot that we will miss about the College.

However, three years of living with the same blokes builds up a strong bondage and I feel certain the whole of our year will be "dungy mates" for the rest of their lives.

As a year we have aimed to prove ourselves at all aspects of sport and College activities and have endeavoured to keep College tradition high. We hope that we have put at least as much back into the College both in name and form, as we have taken out.

One member of our year who upheld our aims possibly more than any other

was the incomparable "Brewer," alias Peter Humphris—a bloke with definite outspoken views and an enthusiasm for the lighter side of life. A strong A grade football backman and sizzling fast bowler, Brewer was a fine College representative and as such has left his mark both in the College and the surrounding districts. The infamous "Brewisms" are now a tradition of the College and in such form Peter's dynamic personality should be reflected for many years.

We would like to thank all the other students we have been associated with, and the staff, who have helped make this a very constructive, if not enjoyable three years and we wish the two years below us all the best for the rest of their College life.

A Student's Views on National Service and Vietnam

My position on National Service and Vietnam is in full agreement with government policy. I feel that the containment of communism in South-East Asia is vital for the peace and security of that region and of Australia. I hope to show you why I believe that our involvement in Vietnam and National Service is justified.

In South-East Asia at the present, China is the real aggressor. Mao Tse-yung has implemented a programme of revolutionary wars, as he calls them, designed to bring Asia under Chinese control. There is ample evidence of this. The Korean War, the invasion of Tibet, the Malayan campaign, the Indian emergency, the attempted coup in Indonesia, and now the conflict in Vietnam. If South-East Asia fell to the communists the security of Australia would be in great jeopardy. It took the Japanese only 18 weeks from the fall of Singapore on 15th February, 1942, to be within 30 miles of Port Moresby. The Chinese have a much stronger army than the Japanese ever had. China rates fourth in the world on defence expenditure. We must make a stand to stop this spread of communism in South-East Asia. Economic measures alone would not come into effect quickly enough to stop this spread. If the allies withdrew from Vietnam now, the country would most certainly fall to the communists. This would encourage them and would reduce the confidence of the "free world" in America's resoluteness to halt communism. South Vietnam would still resist, but would eventually be over-run by the North after a great deal of bloodshed. Australia has many treaty obligations in this area, under the S.E.A.T.O. and A.N.Z.U.S. agreements, so we need men to fulfill these obligations.

With the threat that Vietnam poses to our security and with our treaty obliga-

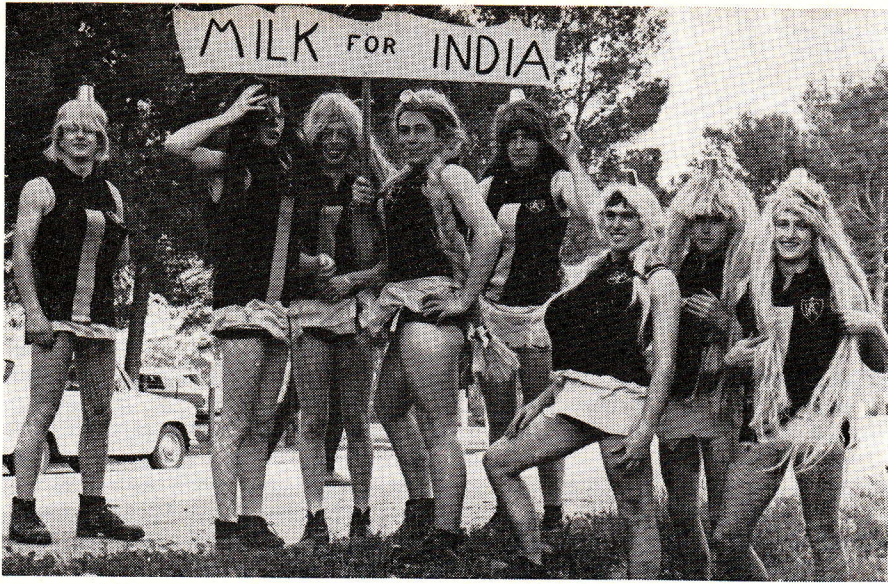
tions in mind, we can examine why we need National Service.

Before National Service was introduced the regular army had a strength of 24,000 men. Of these, 3,500 were on the staff of army training establishments. Another 3,000 were on courses of instruction, 5,700 were in non-combatant units such as administrative staff, ordnance depots and workshops, and 1,000 in the training and administration of C.M.F. units. About 20 per cent. of the rest were either too old or too young to be eligible to be sent overseas. The army then had only 6,640 men which could be sent overseas. With the introduction of National Servicemen, this number has almost been doubled. The army needs a certain number of men to fulfill its treaty obligations. Despite a vigorous recruiting drive and a rise in pay to make the Australian soldier the highest paid soldier in the world, not enough volunteers came forward.

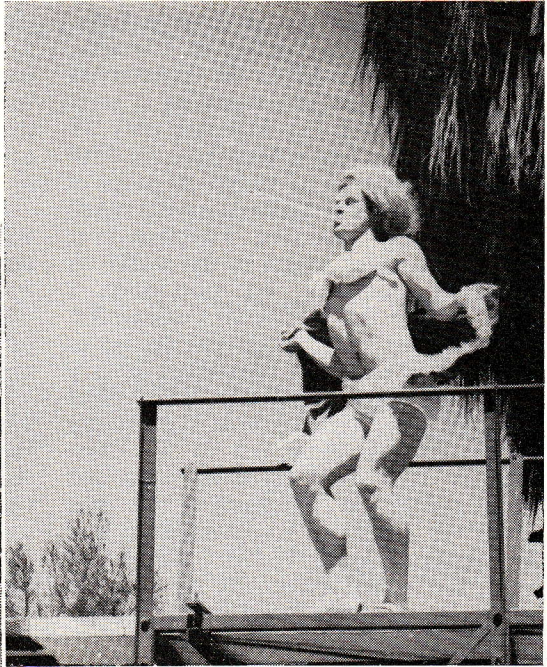
Some people say why not call for volunteers? This is unsatisfactory to the army because they could not be sure of how many they would get. Others say why not have an intensive training period of a half to one year? This would defeat the whole purpose of National Service. There would be no time for them to serve with the regular army after training, thus the effective strength of the army would still be 24,000. The 20-year-old has an opportunity to avoid National Service by joining the C.M.F.

This is an effective argument for those who think that compulsory National Service training is immoral. I feel that upon a careful study of the facts that you will come to the conclusion that our involvement in Vietnam is justified. Only the pacifist opposes this and National Service on principle.

D. TURNBULL.



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and you haven't a feather to fly with,
I know you will put your shoulder
to the wheel and realize life's
wonderful."



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auction.

First Year succumbed to "procession
fever."





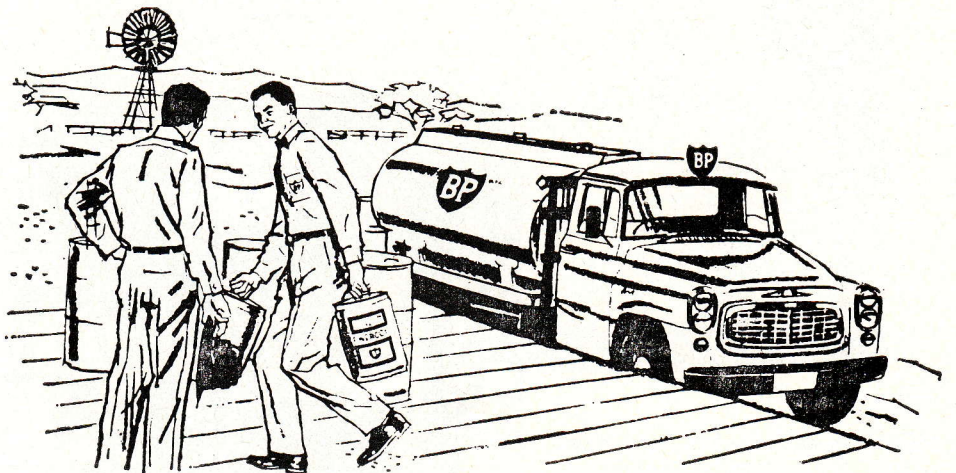
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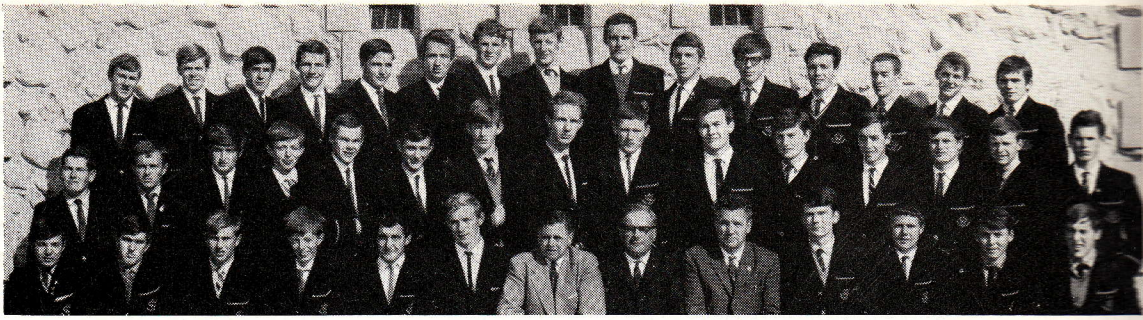
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1st YEAR

Back row: D. Pengelly, R. Paynter, W. Elsdon, W. Roesler, D. Miegel, K. McCallum, R. Hender, J. Davies, K. Johnson, I. Tapley, S. George, G. Payne, J. Cooper, M. Brooke, G. Kirkwood.

Middle row: B. Philp, M. Stanley, K. Lane, C. Glaetzer, C. Smith, W. Allen, S. Murray, R. Habgood, W. Bowles, R. Nash, G. Mowatt, B. Boerth, R. Turnbull, W. Giles, J. Stewart.

Front row: M. Riley, I. Scarborough, N. Ibbotson, J. Glaetzer, R. Whiting, P. Shakespear, Mr. Footer, Mr. Herriot, Mr. Foot, J. Harvey (S.R.C. rep.), T. Usher, J. Womersley, W. Watson.

First Year

In starting our first year at Roseworthy, most of us were equipped with a large supply of probable needs, but a very meagre dose of self-confidence. It was soon realised that the College marched to a certain beat, and we all managed to fall into step in a very short time.

Since those first few uneasy but enlightening (it was for all a period of general "eye-opening") weeks, we have formed the opinion that we have ahead of us what could be the best three years of our formal education that most of us are ever likely to spend.

We all know that the times are rapidly changing, and with the times, people must change. It is obvious then to the majority of us, even though in our first year, that the College is changing and will continue to change. The Agricultural College is a unique type of education, a different type of training for a special way of life, and this system of training is widening in scope and gaining in momentum every year. This common knowledge has already started to mould our year into a "team."

Quite early in the first session it was very obvious that the outstanding uniting medium within the College is sport. We as a year have been well represented in football and also in tennis, rifle shooting and, it is to be hoped, in cricket and swimming.

Many individuals have also taken a keen interest and shown promise in one or more of the gym-judo sections. Discussion groups, talks and College functions have all been well supported by our year. This is true to such an extent that many of us who have never put much stock in that old hackneyed phrase "College Spirit" have been forced to admit that within Roseworthy, despite slight internal friction, there is a strong spirit,

with a growing potential. Proof of this has been shown whenever we have been in any way connected with "outsiders," notably intercollegiate teams, open days, and in competitive district sport.

We all came to the college for a reason and most of us have started to find what we wanted. It is easy to see that many chaps who are not from the land are moving in their new element with ever increasing ease; the old hands, of course, are lapping up the outside work.

As far as the studying goes (a delicate subject at the best of times) although we all bruised our shins on the first hurdle, it can be seen already that a little more effort and a determination to aim higher next time is being applied.

It was stated before, that the College marched to a certain "beat." It has in the past, and does at present. Whether this is a good thing or not cannot be seen at a glance, but we feel that perhaps one "beat" is not in keeping with the times. Thoreau left food for thought in the minds of every student of Roseworthy, present and future, when he said—

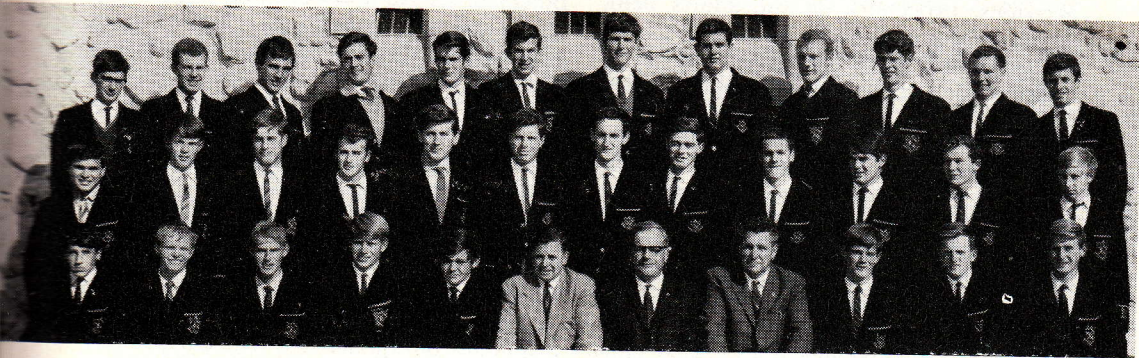
"If a man does not keep pace with his companions, perhaps it is because he hears a different drummer. Let him step to the music which he hears."

Suffice to say that, as a year, we all tend to think along these lines!

Second Year

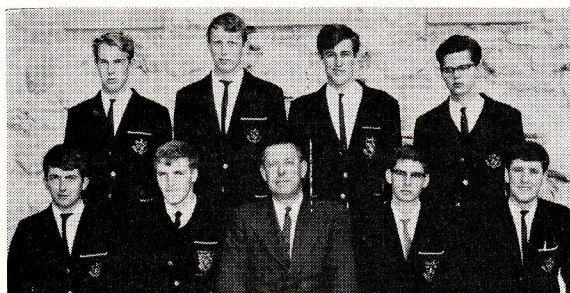
"Alby" Yeo—"Late again young Yeo?"
 Phil Shaw—"Telephone for Phil Shaw!"
 "Trev" March—Only the best will do?
 "Herman" Schrapel—Hail Herman!
 "Twig" Twigden—Where's Waikerie?
 "Boppa" Brown—Why is Biscuit flat?
 "C2" Caudle—Smooth enough.
 "Bumpy" Jones—Not smooth enough!
 "Bing" Crosby—Fords!
 "Konks" Kohnke—Me and my Holden.
 "Morty" Mortimer—"Big Daddy's is mighty!"
 Kym Woods—What do you expect at
 115 m.p.h?
 Reg Hutchinson—REALLY Reg!
 "Stan" Holloway—eccentric light bulbs.
 "Dutchy" Sluiter—She's b—— nice.
 "Frommy" Fromm—Coming to Nor-
 wood this Saturday night Mr. Herriot?
 "Spike" Jones—Daddy's little boy Spike.

Jo Dawkins—What a laugh.
 "Babs" Babidge—Says he boozes too
 much.
 "Cheesey" Hay—Hook line and sinker.
 "Particle" Partington—Oh, hang!
 "Chook" Hurn—Apricot case.
 "Rocker" Ryan—What side-boards?
 Jock Nickolls—Stemulation.
 Lofty Jones—I can't now—the Virgian-
 ian's on.
 "Gav" Eckersley—Singing None.
 Nick Newland—But's it's the only tie I
 have!
 "Creepy" Crawford—Stop whispering
 and raising your eyebrows.
 "Mini" Nicholls—Mini mad.
 "Evvo Evans"—I can't—I'm engaged.
 "Cock" Cochrane—Camel's real taste
 satisfies Cock.
 "Rorse" Dawkins—Crops back 'ome are
 U.S. Rex!



2nd YEAR

Back row: B. Mortimer, D. Crawford, P. Shaw, J.
 Evans, P. Ryan, G. Fromm, J. Nickolls, M. Babidge,
 P. L. Jones, P. I. Jones, J. Jones, G. Eckersley.
 Middle Row: R. Hutchinson, R. Holloway, N. Newland,
 T. March, R. Dawkins, R. Partington, M. Cochrane,
 A. Crosby, T. Twigden, C. Caudle, R. Brown, G.
 Schrapel.
 Front row: R. Nicholls, K. Sluiter, K. Woods, P. Yeo,
 Dawkins (S.R.C. rep.), Mr. Footer, Mr. Herriot, Mr.
 Foot, C. Hurn (S.R.C. rep.), J. Kohnke, R. Hay.



OENOLOGY

Back row: C. Campbell, J. Anderson,
W. Ward, R. Cartwright.
Front row: P. Waldeck, R. Baldwin
(S.R.C. rep.), Mr. Baker, R. Liebich,
A. Hoey.

Oenology

The year started with eight prospective "plonkies" coming from four different states, and all with an agricultural diploma experience, except one, who came straight from the wine industry.

This fact has helped the year to settle into the College, and become a part of it—an aspect which has been somewhat lacking in past years. The "plonkies" have been conspicuous in all college activities, especially on the sports field, where representation in football, cricket and ju-jitsu is very strong.

Some idea of their background is given below.

The W.A. Government, in a desperate attempt to prove they are not a leading criminal state, and also to get some sort of homozygosity back into the mental balance of the people, ostracised a well known public scandal figure called 'Phil' Waldeck, to Roseworthy. Although we are told 'Phil' came here to learn about wine, we really believe it is a well conjured up idea to test the newly formed State Labor Government on such factors as after hours trading and moral issues.

'Col' Campbell is from Rutherglen, and has come to Roseworthy for a different purpose than just to make wine for sale to the general public. He intends to make a fairly large amount of wine for his own consumption, to strip graze his vines with

beef cattle and produce alcohol from grapes to run his tractor. We believe 'Col' was the first person to introduce a new dance to S.A. called the "handstand," which he occasionally performs at certain social functions.

Jeff (Big Fella) Anderson hails from Avoca (wherever that is) in Victoria. His amazing consumption of a certain brown liquid refreshment has stopped others of us from challenging him to dry land skulling competitions. However, in considering this metabolic phenomenon of ethanol absorption, in terms of surface area we find he has a tremendous advantage.

Bob (Industry) Cartright comes from Nuriootpa, where he was with the S.A. Grapegrowers for about two years. We believe his background is rather shady and behind his pseudo-industrial front, we find a fiend who drives madly about in his fast car, to such places as Clare, in pursuit of equally fast women. He has a keen interest in cricket and leaves the opposing bowler agog, with shots which are a cross between Babe Ruth and Victor Trumper.

Alan (Al Baby) Hoey comes from "Pommey-land," where he tells us they produce unsurpassable cars and women—we agree that they will never be matched, but then, who wants to? At a

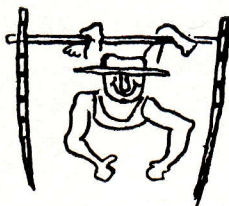
certain dinner earlier in the year we were faced with quite a dilemma; either Newton was not quite sure of his facts, or else Alan has a peculiar habit of drinking standing on his head.

Ron Liebich comes from the Barossa, where his people have a winery of considerable note. He is the quiet member in our year, but does a lot "behind the scenes" and certainly contributes his fair share. After six months of economics, many graphs, and considerable thought, Ron has deducted that in terms of energy and time, running home is uneconomical. Thus we have witnessed the subsequent purchase of a bicycle to speed up the process (fully equipped with power-assisted bell, hydraulic peddles and reverse gear). Due to strained international relations lately, Ron has decided to export wine in square, red bottles to East Berlin to show them we are not biased.

Warren (Greasy) Ward—a second year Ag. student at Roseworthy last year—has an involved, if not somewhat sordid, background. To understand him (and to understand a person is to know them) one must view the following "logic"—he likes the army, and so is anti-naval. We believe he was created and not born, as we are sure no-one would admit to being responsible for the gene compliment involved. However, he is not as bad as we make out, and certainly adds a bit of humour to the year. He continually runs into trouble with the authorities, but finds it hard to see eye to eye with the principal of the matter.

Richard (Baldy) Baldwin — this talented blonde haired sportsman emerged from the scrums of that Pommy game to join the crow-eaters at Roseworthy, showing scintillating verve and academic brilliance (??) in the Ag. course, especially Engineering. He then joined the plonky faculty, more as an excuse to continue playing cricket. However, the malt liquors men have fallen from favour, and he now spends a lot of his week-ends at Gawler River on the pretext of retaining his rural individuality. It has been sub-

sequently noticed that this has extended to Domestic Science, as seen by a ready supply of home baked cookies, much appreciated by the "plonkies."



The Annual Sports were held on Friday, 11th November, with fairly good conditions giving a start to a most successful day.

This year we decided to let the plonkies fend for themselves and not combine with third year. They proved that they could do most events just as well as the other years and ended up only 20 points behind third year who were the eventual winners of the shield.

Sheaf tossing was re-introduced this year after two years absence and it proved to be a favourable attraction amongst the students and particularly I. Pickett who won the competition.

The Championship Cup was won by Peter Shakespear who excelled himself in the field events in winning the discus, shot putt, hurdles and equal first in the high jump.

The other positions were not widely separated this year and Jon Lawton just managed to keep his position of runner-up which he has now held for the three years he has entered. His successes included first in 100, 220 and 440 yard events.

Warren Ward was the only athlete to break a record and he did this in the pole vault when he cleared 9 ft. 6 $\frac{3}{4}$ in., raising the record by 1 $\frac{3}{4}$ in.

The third year medley relay runners (K. Pattinson, M. Merckenschlager, R. Osborne and Jon Lawton) finished the dav off well by remaining undefeated in this event for three years.

Mr. Philip, as guest of honour, presented trophies and the shield to respective winners.



The season began this year with all players and others connected with the Club with one aim in mind: to win a premiership.

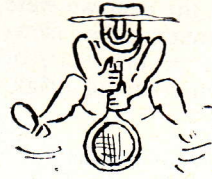
The Club extends its thanks to Mr. Parry who coached the "A" team to a premiership and the "B's" to a second position on the ladder.

Grand Final day, as always, was a great day for the College and because we had two teams in the finals the College students really organised a fantastic procession thro' the main street of Gawler. Grand Final excitement had infected every student on the College on the eve of the great day. In fact we even had a banner made out of dyed wheat bags which was stretched around the boundary of the Gawler Oval.

The "A" grade football team visited Dookie and Longerenong Colleges to challenge them to a football match at the end of the season. We lost to Dookie but made up for it at Longerenong where tempers often flared.

The football year ended with a dinner at the College for all staff and students and representatives of other clubs and another dinner, officially called the Father and Son Night, which was held in Adelaide.

Finally, the Club would like to extend its thanks to all supporters who followed the College team and helped to make the year a success.



The College entered a tennis team in the B1 grade in the Gawler Association last year. However, exams and holidays again took their toll and we finished 6th out of 10 teams. This year we have teams in A grade and B2 grade and so far results look promising.

Roseworthy was again successful in the Intercollegiate competitions at Wagga for the second year in succession. The team comprised M. Stanley, K. Keain (captain), J. Lawton, P. Yeo and K. Westbrook, who all had an enjoyable time.

Tennis tournament, 1965—

Open singles winner: G. Pfeiler; runner up: K. Keain.

Doubles winners: G. Pfeiler, P. Gourlay; runners up: K. Keain, K. Westbrook.

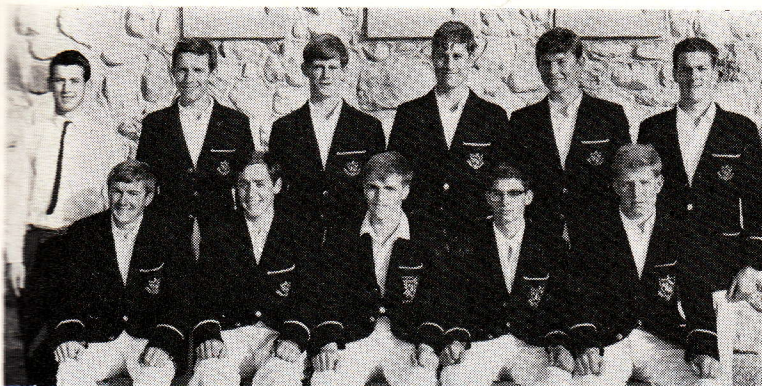
Handicap singles: J. Klingberg; doubles: M. Kuerschner, R. Sampson.

A very successful tennis dinner was held in Adelaide in March.

The tennis teams are indebted to Mr. R. Ford for his management during the year.



"Patto" leads out the premiers.



A GRADE CRICKET

Back row: Mr. Weeks, W. Roester, C. Hurn, N. Newland, G. Mowatt, T. Twigden.
 Front row: D. Pengelly, B. Boerth, R. Baldwin (captain), R. Liebich, M. Woods.



The 1965-66 Cricket Season saw College with two teams in the Para Districts Cricket Association. A and C grade teams were fielded but because of exams, holidays and players leaving, C grade was forced to withdraw from the last few matches.

Richard Baldwin was skipper of the A's and Jim Cawthorne the C's. "Baldy" also skippered the Under 21 Para District Association team, which won the Shield. Humphris, Hurn and Lofty Jones also represented the College in this team.

A new malthoid pitch was put down for the season and the oval was kept green over the summer. Batting and bowling figures were not outstanding. In the A grade best batsmen were Chris Hurn and Richard Baldwin, who were also the most successful bowlers. Peter Humphris gave good support, bowling 120 overs for 22 wickets at an average of 18 runs.

In the C grade Bob Osborne took the batting honours. Jim Cawthorne and Bob Holloway were the mainstays in the bowling.



The Club got off to a good start this year with 25 members. We elected Mick Freeman as captain. Initially much hard work was carried out by all in making our butts up to standard safety regulations before we could continue shooting.

We all started off not knowing much about rifle shooting, but after some months of good hard training we moulded a very good intercol team from many good shooters to fill the six positions in the team, viz. Mick Freeman, Dick Carty, Ross Dawkins, Trevor March, Kars Sluiter and Ray Paynter.

Mr. Baker, our manager, went with us to Wagga where we won Intercol for the second year straight after a very bad practice day. We have high hopes of making it a hat-trick next year.

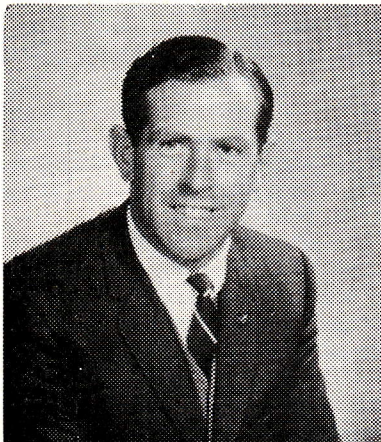
We have had some inter-club shoots and so far have not won any, but we did manage to beat the Old Collegians. However, with the coming shoots to follow, we may be able to win some.

Thanks go to Mr. Baker and the rest of the Club for an interesting and enjoyable year.

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Consulting Representative

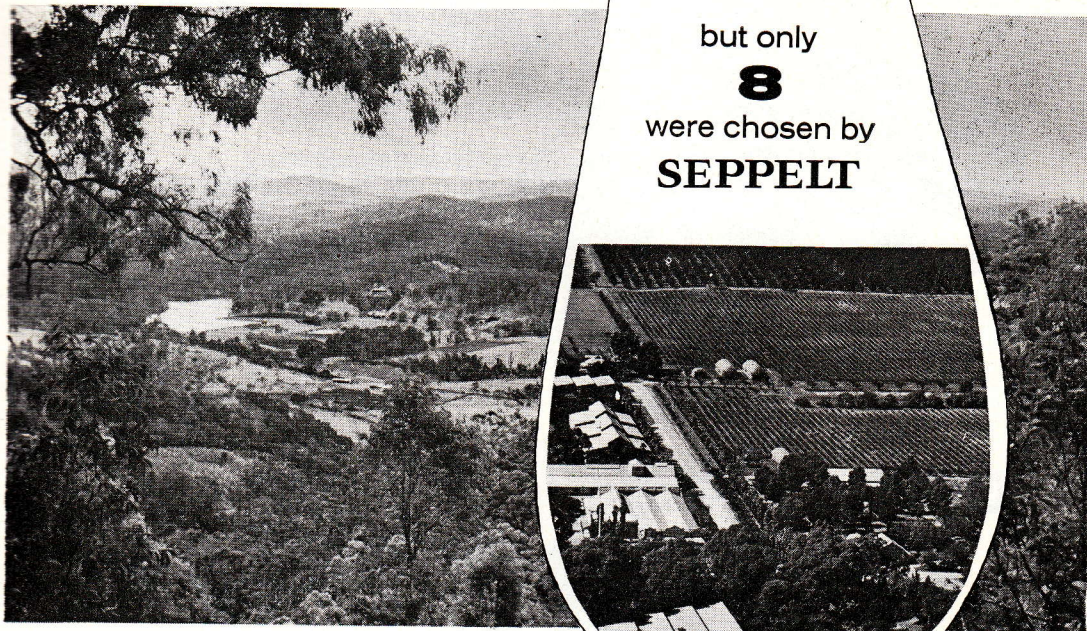
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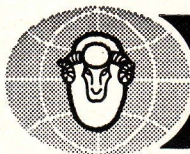
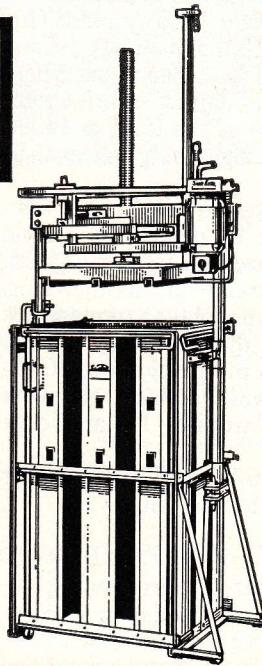
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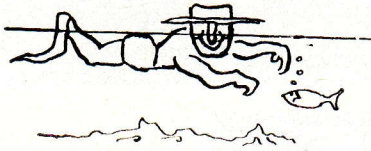
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Our general meeting showed a lot of possible depth. We were not to be disappointed, as is often the case when new players spend half the first few matches on the bench.

The team started slowly but as experience came, we gathered momentum to enter the semi-final in B grade. This was lost, due to supplementary exams, keeping several of the team members away. However, to climax a most successful season, some of the team attended a very entertaining lightening carnival at Port Pirie.

The Club wishes to thank all who played and helped to make this season one of the most successful for some years. Special thanks go to our retiring manager, Mr. Hollamby, who gave tremendous service throughout the year; and to Mr. Gursansky for accepting the post. Congratulations to David Pannach who won the best clubman's trophy. He also captained the team.

We all hope 1966/67 will bring greater honour and glory to the Club.

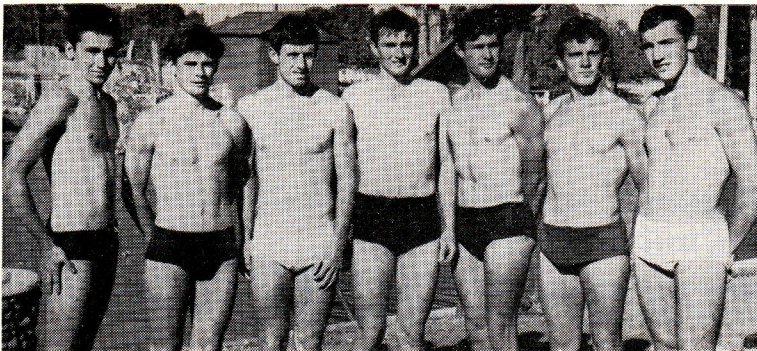


During the College year the Social Committee held two functions. These were the Autumn Cabaret and the Woolshed Dance Amateur Hour on the night of Open Day.

The Woolshed Dance was a tremendous success and was enjoyed by all who attended. The cabaret was rather disappointing due mainly to the poor attendance. If the students want these functions to continue then more support must be given.

It was decided that the Annual Ball would be suspended for this year, at least to make way for a Graduation Ball to be held in March, 1967. In the future it is hoped that this Ball will become the social event of the College year.

We would like to thank all those people who have helped us during this year and everybody who has attended these functions and in so doing made them a success.



D. Pannack, D. Snook, G. Eckersley, J. Curlewis, M. Merckenschlager, K. Pattinson, I. Bond.

Premiers 1966!



A GRADE FOOTBALL

Back row: P. Yeo, J. Lawton, P. Shakespear, J. Evans.
2nd row: M. Merckenschlager, C. Campbell, Mr. Wood (manager), P. Humphries, P. Shaw.
3rd row: R. Osborne, R. Baldwin, J. Curlewis, G. Mowatt, W. Roesler, Mr. Weeks.
Front row: C. Hurn, M. Woods, K. Pattinson (captain), Mr. Parry (coach), P. L. Jones (vice-captain), C. Caudle, I. Anderson.

... AND THE TEAM THAT DID IT

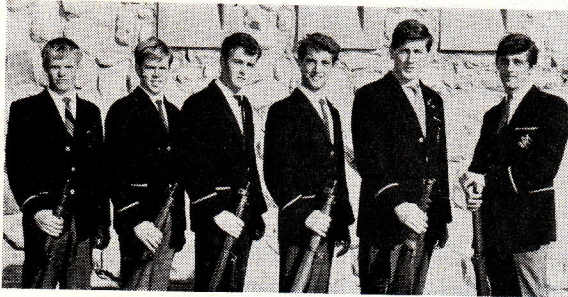
Congratulations to you footballers from the rest of the College. This win has left a mark on the College and for years to come people will recognise this year as the one in which we had two teams playing as grand finalists.



B GRADE FOOTBALL

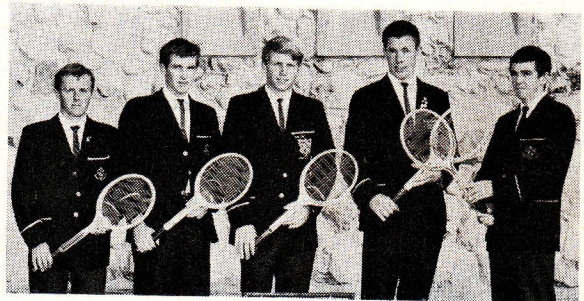
Back row: P. I. Jones, G. Fromm, P. Ryan, I. Pickett.
2nd row: R. Liebich, K. Westbrook, R. Nash, P. Waldeck, B. Boerth.
3rd row: G. Kirkwood, J. Stewart, R. Brown, W. Watson, S. George, R. Hanby.

Intercol Champions!



INTERCOL RIFLES

K. Sluiter, R. Paynter, T. March, R. Carty, R. Dawkins, M. Freeman (captain).



INTERCOL TENNIS

M. Stanley, K. Westbrook, P. Yeo, J. Lawton, K. Keain (captain).

The College is proud of their Intercollegiate achievements this year. Both teams deserve full honours for making this our second double victory in two years. Not only have you proven that we have the spirit to get to the top in every field, you have also imprinted the words "Roseworthy College" in the memories of people both in the College and outside it.



Farmer's Day

Farmer's Day is a day set aside for any interested farmers to visit the college to witness its role in agricultural education and also to see the technical and practical advancements that are being made here.

This year the form of the day was different in that instead of having a choice of lectures to attend, the whole group was transported to the venues of selected talks and demonstrations.

The party, of about one hundred, was first taken to the farm area where three informal lectures were given. These were by Mr. Norton, on Silage Making, Mr. Hooper, on the new shearing shed and the recently established Poll Dorset Stud, and Mr. Sutcliffe on Machinery Maintenance. The next stop was the piggery where Mr. Chartier explained the new farrowing house. Mr. Krause then took the party to see his plant breeding work, which included an inspection of the introduced material that

he brought back from North and South America.

Lunch was provided in the form of a barbecue on the oval and the proceedings finished in the mid-afternoon at the end of a successful and enlightening programme.



"You said WHO just fell into the hammermill?"

Open Day

For the first time the students had an active and responsible role to play in the organisation and running of this year's Open Day and because of their enthusiasm backed by active assistance from the staff, it turned out to be an unparalleled success.

All sections were open for inspection and each was manned by a group of students headed by a Third Year, who decided how the section would be displayed and what demonstrations would be staged.

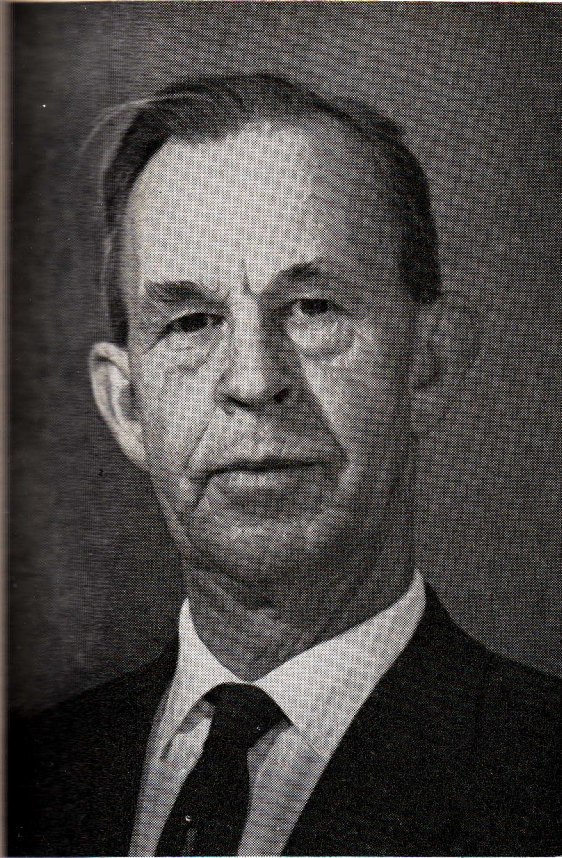
For the sections within walking distance of the farm area, there was a guided tour of nine demonstrations, including: shearing, milking, slaughtering, livestock handling, engineering practice and a machinery display.

The public could make their own way to the other sections where they saw pig management, egg handling, plant breeding, hay making and an inspection of the cellars, including wine tasting.

Other attractions included an historical display, side shows, E.F.S. display and a barbecue on the oval where lunch and tea could be bought.

Our aim was to show the public what went on at Roseworthy and illustrate what it was doing for agriculture in S.A. and judging by the size and genuine interest of the crowd, we more than accomplished this.





"Philpy"

Mr. Philp came here on 7th March, 1921, and has remained among us until retirement in April of this year; a grand total of 45 years.

He first worked in the Department of Agriculture as a Junior Clerk, then when the vacancy occurred here, accepted the job. There were only two in the office then, and no girls! During this time he has served under five Principals and student numbers have increased from 40 to 110 at present. Along with this there has been a marked improvement in student accommodation. He has seen the 1931 strike by students and the subsequent drawn-out hearing.

One of the great assets he claims Roseworthy has is that the community living makes everyone fit in with each other, or they fail to get on. It is a good training in citizenship. One of his greatest pleasures is knowing so many people who have been through the College and are now famous in their fields of work.

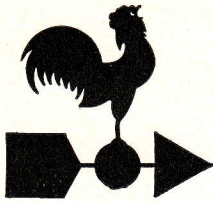
A good deal of his time was spent keeping students and sports clubs from becoming bankrupt by over spending. No doubt he has had plenty to do with the increasingly "healthy position of the College" which we hear about every Speech Day.

In retirement he would have become irritable if left completely free, so has found a part-time job which, to his complete amazement, "involves no overtime."

We wish both he and Mrs. Philp a happy retirement and hope they visit here often.



"They shouldn't have been lying there!"

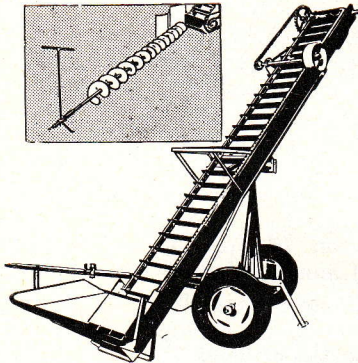


EAST BROS

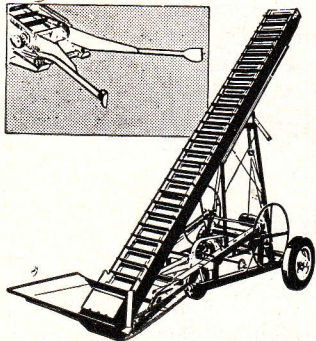
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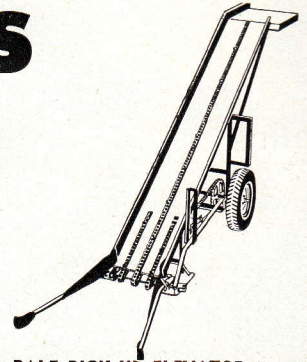


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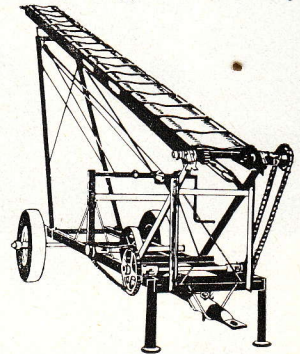


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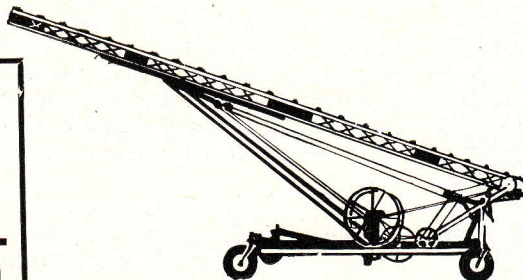
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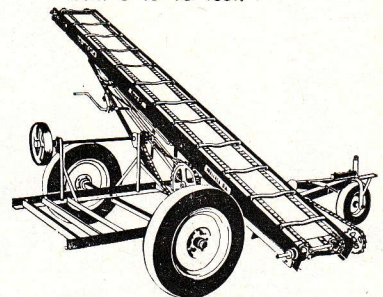
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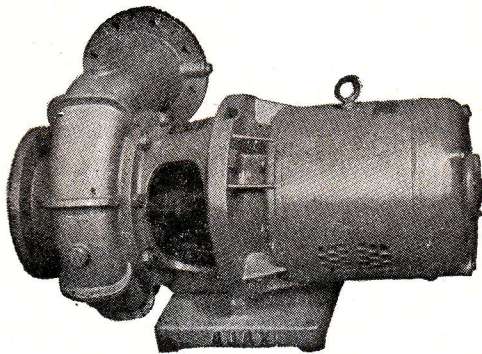
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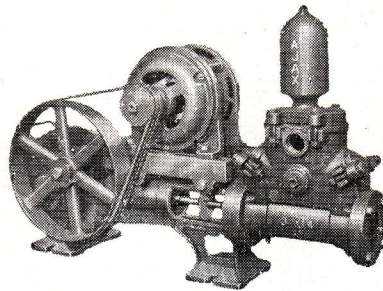
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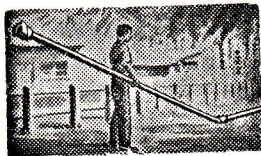
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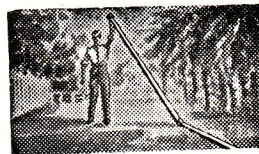
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"Ted"

Ted Lehmann was born on the Willochra Plain east of Quorn in 1901, and one of a family of nine, worked for a hard task-master in his father. He left school at 14 and can remember in 1914, cutting sheoak for cattle in the drought.

Ted started blade shearing at 18 around Laura where the family had settled and farmed a property at Yacka, then had to leave it during the depression. He can remember blade shearing at many properties, the biggest of which was "Morolana" with 30,000 sheep, all sandy backs, employing 16 shearers. He later worked in the South-East and picked fruit before coming to the College in 1940.

In his time here as stockman, Ted made many friends in students, who gained a lot from his vast knowledge and obvious determination to do everything properly. His big disappointment in the College is the Merino flock being used for experimental work. "Gawd, you should see some of the goats they keep." His advice to young men is to "pay more attention to detail."

The only sick-leave Ted ever took was when his horse bolted and he was thrown out of the cart.

We trust that in his retirement in Gawler he will enjoy the same good health, and that we shall see him at the College occasionally for many years to come.



"Perce"

Perce Trenowden had been here four years to last January, and left in May of this year.

When he started work at the age of 12, he worked 72 hours a week, rising at 5 a.m., and would be feeding horses at 9 p.m., for 2/6 a week. He still has one of the half-crown pieces.

He has many memories of humorous incidents and unusual achievements of students, but would rather not repeat them.

His recommendation for success is to work hard. He proclaims that once you are successful you do not have to work any more.

He has two aims in retirement: rest and enjoyment. We fail to believe him, but rather think he will return to his previous energetic activities, even if only part-time.

End of the Beginning

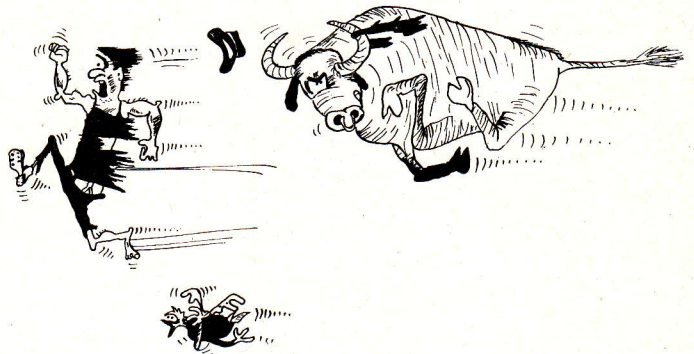
I see death from the corner of my eye;
It stands aside conspiring to defeat
With untiring patience, it is victorious,
And our very souls aid in cruel success.
It is more clear—

A hollow depth, which is not deep,
And pitch walls, which are not walls
But a division, impenetrable, to immor-
tality.

Eyes are glazing but the vision focuses,
And in a last moment of selfish mortality
Past sins beg forgiveness, but are not
regretted;

Time only is regretted.
Groping, I need a strong hand to hold.

P. L. JONES



"Take 'im fer a quiet stroll 'e says!"

Dear Ed.

Dear Sir,

I would like to write a few words in praise of our institution so that everyone will know what a great contribution it is making to tertiary education. Here are a few of the good points about R.A.C.:

1. Penalties for missing lectures;
2. Roll call at Sunday breakfast;
3. 7.30-9. p.m. quiet period;
4. Regular visits by the Principal;
5. Daily room checks by the House-master.
6. One afternoon a week from 4-6 p.m. in Gawler for a legitimate reason.

Yes—one can see that here at R.A.C. we are treated like adults and that when we leave here we are fully equipped to meet the responsibilities that will confront us. Long live the free run we get here!

Densley Fuller

(Ed. *The way your are going Densley, the next institution you attend will read:*
4. *Regular visits by the Head Warder.*
5. *Regular visits by the Guard.*
And there won't be any 6.)

Dear Sir,

I wish to complain that my application for a salt mine to be established opposite R.A.C. was refused. I was told (confidentially) that students from the college would leave to work there, the 15 hour day, with no tea break and only 50% sinews in the chops would appeal to them too much. What can I do about this?

(Ed. *Your application was refused because I am starting a geisha house and the whole college is shifting over.*

Dear Ed.

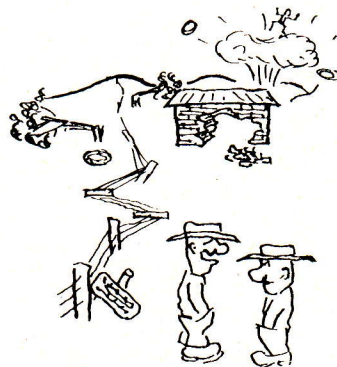
I am a man of 19 and I am seriously in love with a girl, also 19. She is the daughter of wealthy land-holders and as I am the son of poor parents, I am afraid to ask her to marry me in case she suspects that I am just a money seeker.

The father is a good-for-nothing coot so I cannot discuss the matter with him. The same goes for her mother who lives like a 20-year-old and lets her husband gamble and drink as he wishes.

What would you do?

Ed.—Shoot the father and marry her mother.

P.S. And to you, son, my name is Edward.



“Seen T.C. anywhere?”

Take Heed!!

Gentlemen! — The net closes in.

Every waking day during a woman's maiden life, it is being constantly drummed into her ears that she must on no account give her ALL.

From the moment she commits this alleged mistake, the same drummers will retune their instruments to insist she makes it permanent and legal.

Maybe you've got a girl. Do you go everywhere together and do everything together? You say she's a sensible girl who doesn't tie a man down too much. A girl who well understands that you don't want to get married and settle down.

Famous last words.

Give it a month. A year. Two years. Sooner or later, my friends, **the axe**

will fall.

One evening it will come.

The hint;

The tap on the shoulder;

The bill;

The day of reckoning.

See how the spectre of matrimony creeps up behind you . . .

Have your answers ready!

"You know that Albert wants to marry me, don't you? What should I tell him?"

Answer: "Tell him yes!"

"I feel that if I were married I could really—you know—give myself to a man!"

Answer: "A short loan will do!"

"Were you going to ask me something?"

Answer: "Yes, do you mind if I just disappear behind this rose bush?"

He who agrees to operate a joint savings scheme in her name is doomed.

He who is given to spending week-ends with her family, takes the dog for a walk, and gives half crowns to the son of the house is doomed.

So is he who gives up golf;

And he who gives up drink;

And he who gives up his old mates;

And he who gives up other women.

Doomed. All doomed.

However, ignore your married friends'

advice—a sycophantic view. Fawning on their wives. "Why don't you get married old boy, settle down and get some good meat in your belly?"

Ignore them. They are pathetic, broken-in, house trained, brought to heel; so drained of spirit that they will dance a jig in exchange for permission to smoke.

Out of every 10 men—

One gets married because he needs a housekeeper;

One because he wants a cook;

One because his intended wife is rolling in money and he is not;

One because he had to;

One in order to further his business connections;

One because he was too embarrassed to say no;

One because he was anxious to have a regular sex life;

One because he needed a son to carry on the family line;

One because the manager's job was open only to a married man;

One left—is this you?

J. ANDERSON

ICKLE WOCKLE

Ickle Wockle

Little thing

Has no fevers on its wing

It cannot fly, it cannot sing,

Cut its flaming head off!

Roseworthy Research Centre

We come as lambs to this institution to learn, but I have made a remarkable discovery. We are not students, but subjects, in one of the greatest mass research centres since the Nazis. We are being observed.

The centre is situated far enough away from the main metropolis so as not to cause too much of an embarrassment to the local Government.

We are fed on a maintenance ration—Low Protein, Mediocre Fat, Plenty of Roughage.

Yellow viscous globular syrups, called Custard, but really Microbial Media are fed to inoculate us surreptitiously with CA, Typhoid and Hives to test our resistances.

Roughage conversion is noted by analysing the contents of the Sewerage Dam.

Dress is stringently supervised so body heat losses can be controlled—arms covered to control respiration and photosynthesis.

Chief is Dr. Verriot—supervisor of out-of-college propaganda.

Second in command is Dr. Rause who works in conjunction with Dr. Gollamby in the Breeding Section—Sterile and Semi-dwarfing Gene work is their speciality.

In the Chemistry Laboratory are Dr. Warry and Dr. Peekes. Peekes is doing a Postulate on student susceptibility to microbial contamination by bottle washing. Dr. Warry works in conjunction with Dr. Bursansky on Horticulture, testing student skin absorbative trials with Herbicides. Poisoned fruits are fed to us to get lethal Toxicity Ratings.

Dr. Smallcliffe at Workshops is chief data collector. Readings are collected while naive students think they are welding—these cleverly disguised machines take pulse, blood pressure and number of times students twitch per minute.

Susceptibility to Dust is Dr. Borton's special love. His Hammermill and Chaff-cutting Clinics are feared by all,

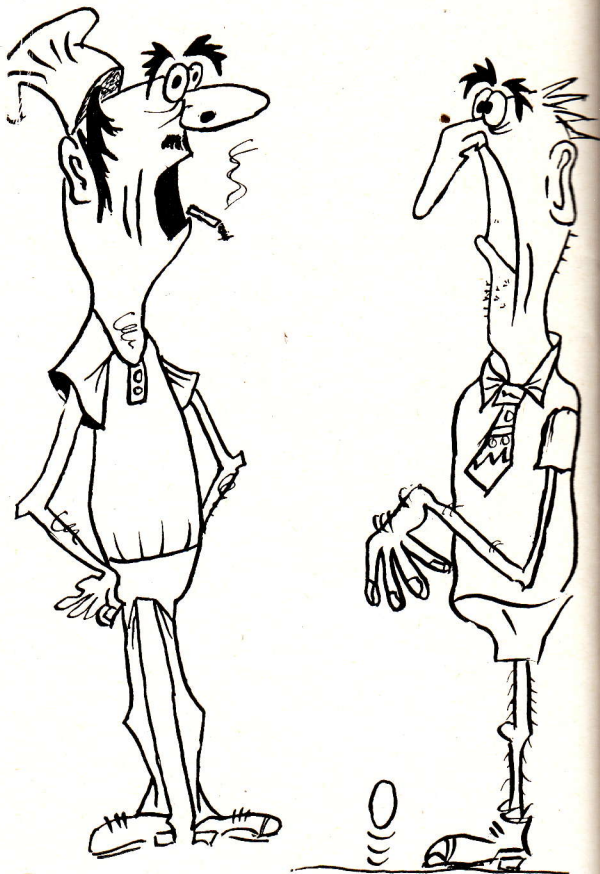
especially asthmatics, although Dr. P. O. Quick is altering designs to increase dust.

Smoking is not disencouraged amongst subjects as it provides interesting comparisons amongst patients, but alcohol is barred because of it's carbohydrate values.

Constant checks are kept on subjects and the wards are searched every morning by Dr. Hotfoot for those who don't make the night out. Checks are made between 7.30 and 9.00 p.m. for chronic cases.

At the end of three years, subjects are discharged, usually due to nervous disorders, metabolic diseases and cramp in the knees. The final discharge is the R.D.A.

T. March, Rehabilitation, Direct Admittant.



"And just what's wrong with the bloody eggs?"

One of Us

He is an athlete of note representing his country and its sportsmen. His skin is black, but what does it matter? He gains honour for his country, he is "one of us."

He is a scientist, brilliant, dedicated, devoting his life in the search for ways to benefit mankind and better the world, our world; his skin is black but what does it matter? He helps us, works for us, he is "one of us."

He is a soldier, fighting far from home; we give him our weapons, and he takes them; for us he fights, suffers, and dies; his skin is black, but what does it matter? He fights for our freedom, our principles, he can fight **with** us, and we tell him that he is "one of us."

Yet is he really one of us? We look again, and we don't have to look closely. We see him in a different light and now he is an ordinary man, seeking to work with us, wanting to earn a place in society and to gain respect from those around him, but his skin is black! He is despised, ignored and turned away.

He is a father seeking education for his children and security for his family. Because his skin is black he is shunned, deaf ears and blind eyes are all that he meets; he finds that knowledge is a gift given only to children with fair skins; He finds himself in a sea of hatred with no security, no home.

He is a citizen expecting the rights accorded all citizens in this democratic country of his, where all men are equal. The colour of his skin denies him these rights, he is barred from society, and enshrouded by a blanket woven of prejudice, hate and greed. And a storm is darkening his horizon.

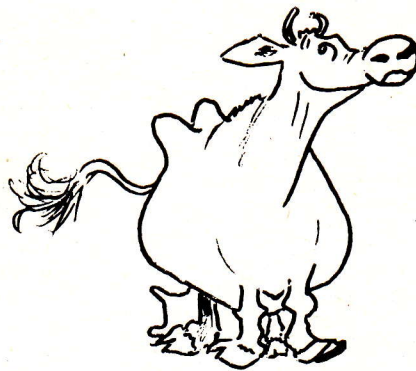
Inevitably the time must come when this man stops and looks at himself, searching. He sees himself a man with a status no greater than that of a common criminal; a space has been allotted to him in the gutter (a gutter which, I might add, is full to overflowing with his white

superiors) and he is not permitted to rise from it. The land in which he leads this mere existence will readily take his mind, his body, and his blood, but only when it chooses. He sees himself as a reserve of flesh and blood, highly expendable.

He rebels! Heart, soul and mind have taken too heavy a beating; he must fight for his rights, his principles, indeed, he must fight for a life. This he does and is immediately branded "nigger," he is hunted, persecuted and forced to link arms with Death.

This man is a father, a citizen; but he is an intruder, an alien, and he is not one of us for his skin is black.

And our skin is fair, why are we proud?
JOCK STEWART



"Ooo! That's better than A.I."

Staff Under The 'Scope

As a general rule the staff has towed the line fairly well this year and for the most part we have been pleased with the interest that they take in us, even though some do become boringly over enthusiastic at times.

So great is their desire to come and visit us—they have to be rostered to partake with us in the evening meal and then spend the rest of the night tripping around from room to room in an attempt to maintain a nauseatingly dull conversation with us. Typical of their insane comments are—"Giddyay", "How are you"? "Isn't life wonderful", and so on and so on. It is small wonder that the stock replies to these absurd questions are "Yeah" and "Orright".

Sometimes of course one of us is not "At Home" and when this occurs it is really quite heart rendering to see the state into which they work themselves.

The whole performance night after night often reaches a state of unbearable boredom, but we feel that in most cases the sacrifice is warranted in return for witnessing the obvious joy each receives from his little night out.

However, there are those who are quite intolerable and we have no alternative but to get rid of them.

We have successfully found a job in Murray Bridge for that over energetic Mr. Stephen, and we, with the help of the A.P. Lab. staff, have driven Mr. Wood to the sewer at Bolivar. For Mr. Woodruff we were able to secure a position at Toowoomba and as a temporary measure were able to send Mr. Gillolamby to Canberra for 12 months. After 40 odd years of recklessly squandering the taxpayers money, we sent Mr. Squirrel Philp to the Taxation Department to try and collect the funds he so enjoyed spending.

To keep the new Housemaster—Mr. Foot—out of action for a while we have given him 2 months open range of the winery as a reward for his most successful bottle drive and as another short

term measure have organised a 2-week scenic cruise on the sewerage dam for the winner of the most popular staffy award.

We are at present negotiating for the appointment of the Principal to the post of Minister of Fisheries in the Central Nullabor—a position we feel he could handle quite capably.

We have also applied for several scholarships so that Mr. Krause will be able to take another trip overseas "some place", but so far without a "whole lot" of success.

Another staff reshuffle we are trying to manipulate, is to ostracise Mr. Norton to the Poultry Section after we discovered at the Barn Dance that he had quite a flare for the birds. This has been done so as to prevent a new appointment which often thwarts our cause by introducing undesirables into a system which we are slowly modifying to a small number of easily dominated and unobtrusive, semi-animate individuals.

In case you are wondering, it is due to the efforts of our pre-orientation and screening committee, which deals with all new applications, that there are so many vacancies at present in the College Staff.



All this wheat and not a damn record anywhere

A Driver's Repayment

He was excited. Above the sound of his car, he thought carefully. Down the next hill and around the corner and he'd be there. He couldn't wait, but fate had other plans.

He was half-way down the hill when a flash from behind a building, the squeel of tyres and the screams of a pup interrupted his thoughts. He stopped, got out, and looked. There was nothing he could do.

Then, from the house, came a young boy who had obviously heard the noise. At the sight of the pup he broke down. The tears began to flow and the driver could feel the hurt he had created.

The boy lifted the limp form into his arms, and looked up at the driver with a little hate in his tear filled eyes.

To be comforting, the driver knelt at the lad's side. "I'll get you another," he said, at which the lad's wailing only increased.

Then, remembering his appointment, the driver gave the lad a fiver and left, still feeling the hurt in the boy's heart; a hurt that £5 could not cure.

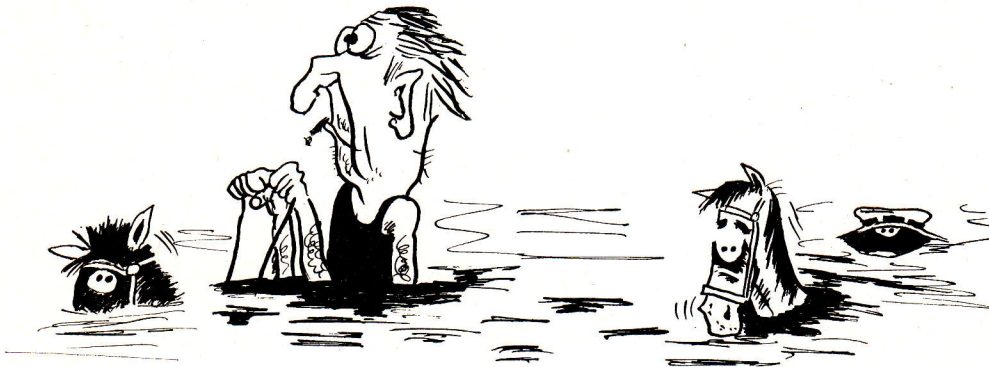
When the car was around the corner the lad got up, took the pup and buried it. He then went back to the house, picked up another pup and waited at the side of the house for another car to come down the hill.

R. HUTCHINSON

Do You Know Your Staff?

1. "Bring down my grey hairs with sorrow to the grave."
2. "Stately and tall he moves in the hall, the chief of a thousand for grace."
3. "Zaccheus he did climb the tree."
4. "I smell a rat—the little dog and all."
5. "He who has plenty of pepper will pepper his cabbage."
6. "And thee began a long digression about the lords o' the creation."
7. "Roll on thou ball roll on through pathless realms of space roll on."
8. Cookery has become an art, a noble science; cooks are gentlemen."

ANON: "Let there be no inscription upon my tomb; let no man write my epitaph: no man can write my epitaph."



"With more rain this paddock could get a bit sticky."

Sarsaparilla

Sarsaparilla is a soft drink that few of you will know much about and fewer still have tasted. It has little cause to fame other than that Sugarfoot, Dennis the Menace, (Root Beer) and Hoppy Cassidy (5.30 Saturday—Channel 7) drink it. "Sars", as it is called by the illiterate, has an exotic flavour resembling liniment dissolved in methyl salicylate, turps, with shoe polish, match heads and the slightest touch of paint remover to boot—despite this, a few of us like it; even enjoy it. It has been in my mind to develop a theory which has interested me for some time, and which, I believe, may change the opinions of the various experts in the psychological history of the wild west.

The name sarsaparilla is of Spanish origin and means "little prickly vine". Sarsaparilla is now the accepted vernacular for the tropical genus SMILAX of the LILIACEAE family, a species indigenous to Central America. When boiled in water, it affords a dark extractive matter and when boiled in alcohol it yields a crystalline form of saponin—British Pharmacopoea 1960. When the dark extractive matter is used to make sarsaparilla, it produces a drink professionally regarded as inert and useless but which is popularly looked up to as a tonic and an alternative.

After some quite painstaking research, I have been led to believe that the Smilax sars. was not available to the old west-erners. This means that their Sars. was made from the Northern American Sarsaparilla plant root (ARALIA).

Distillation of this yields the same extractive matter but also liberal quantities of Saponin, which experiments have shown causes instant death to dogs and cats (if intravenously or orally administered)—probably explaining the lack of cats in western films or books. If the most minute quantities are "taken" by man, it will cause peristalsis and inflammation of the digestive tract (thus the "warm glow" felt by Sars. drinkers) as well as tetanoid

spasms and spectral illusions, amongst other horrifying experiences. Added to this, Aralia also produces aralene, (C₁₅H₂₄), a terpene which is very similar to mineral turps in taste and smell. This will explain why the cowboys liked it and why, if they were prone to smoking peace pipes after drinking it, the Red Indians called it "Fire-water"!

In any case, the normal Smilax Sars. if boiled in alcohol, produces saponin. If we are to believe what we so often hear about things being much bigger in the United States, then we must logically assume that the sun is both bigger and better. In fact, in the days of the 1800's, temperatures reaching the boiling point of alcohol were probably quite common, and we know well that ANY COWBOY WORTH HIS SALT consumed liberal amounts of Rotgut and moonshine (99% alcohol, 1% water). In this case we have excellent conditions for the production of Sapoxin in the average western stomach.

From here then, the behaviour of even the worst 'baddies' is easily explained. Billy the Kid, who was probably an innocent 18-year-old adding a dash of whisky to lessen the effects of his sars., may have thought that the banks he held up were pink elephants. Tex McCoy may have been under the impression that the 80-year-old lady he shot in the back was a spectral illusion and Wild Bill Hickock may really have died because he shot himself in the foot and developed fatal gangrene after a tetanoid spasm—and so I could continue.

The Roman Empire, it is believed, may have fallen because the despotic rulers wined from leaden vessels and so developed lead poisoning. The violence of the wild west then may be accounted for as I have shown. Two important points for today's generation are:-

1. Never make your own sars., or if you do, never drink it before a lecture.

2. Never drink **any** sarsaparilla with alcohol if the temperature is over 176°F.

(By—Spectral illusioned Sars. drinker)

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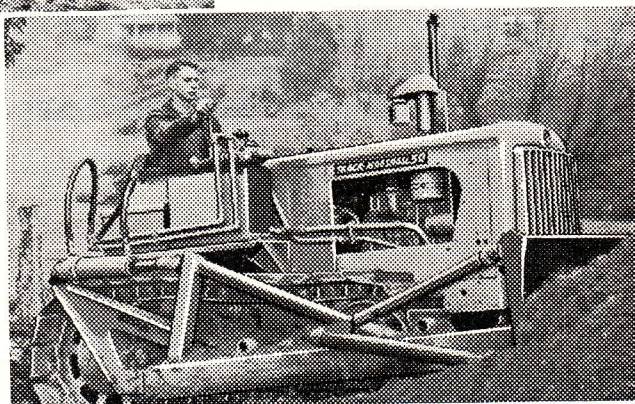
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The Compass is Broken

Each day is the same
From the time that it dawns
Each day Man dons coveralls of pretence
And marches with gods in the ranks
Of pawns. Laughter is shallow, mere
Drug for the mind, no other meaning.
Weariness is deep but not physical
And drags him into the river of flesh
Which is nothing.
And in it he is lost in a chaotic land
Of barren ideals, all dying.
The mind strangles, it cannot breathe
For the path it treads
Is narrow and dim,
Vagueness grows on all
And colour dares not move.
Machines of war he made
To lift him from the mud
But the rut wore deeper,
Filled with blood,
Now it rusts the Souls discarded in it.
Ploughman covers bones
With sticky earth yet knows
That nothing is gained, nothing true will
grow;
So too the digger of graves sees:
And bones will not stay buried.
On corpses of the past man trips
And adds anew;
The leech of death in vain he tries
To burn when he knows it can
Be poisoned with life.
It is fact but not many know it
That knowledge is crushed
In the panic of strife;
Ignorance, fear are rife
Piety replaced by noisy
Preachers of abstracts,
Shirkers of realities.
Christianity has closed its doors
To Christians;
And now it is said that God
Is not colour-blind
And the hue of skin dictates
To whom peace opens the gates.
This creature man shall know
All the answers, but that
Not understood is destroyed
And questions never put
Will not be answered.

J. STEWART

Life's Like That

When times are hard,
And the way's not clear;
When the world is changing
Before our very eyes;
When love goes wrong,
And Man goes astray;
When bombs explode
And widows weep;
When nations are starving
And others fighting:
We read about it;
And do nothing but say:
"Life's like that."
Life's like that.
A feeble excuse
For the problems
Man creates.
Countries starving,
Countries fighting,
Countries prospering,
Countries dying;
But it's all put down
As history in the making:
Because "Life's like that".

MARY QUITE CONTRARY

Mary, Mary, Quite Contrary,
How does your garden grow,
With silver bells and cockle shells,
And that dirty great big egg plant?

Delusion – Suicidal?

The accomplishment of man in disease prevention, increasing efficiency of labour by mechanization and other means is impressive. He can also change the living landscape to suit his whims and needs. He has been termed an "Ecological dominant".

This dominance is not as firm as might be imagined. Erosion and radiation are two examples of environmental abuse. Chemical pest control is another.

Pesticides are designed to make our life more "pleasant" by doing away with plant or animal competitors that interfere with our health, and production of articles. These chemicals are classified according to various intended targets, as insecticides, rodenticides, fungicides and herbicides.

The fact that pesticides are very useful—even necessary—is widely accepted. They control disease, allow the farmer to grow better crops of greater yield, and reduce production costs.

If chemical pest control is so valuable, why argue against it?

Here are a few reasons. Most pesticides are non selective; they not only kill the pest, but also other forms of life. The prime example of this is aerial application. In America in 1950, almost all the cotton fields in northern Alabama were treated with chlorinated hydro carbons to control a boll weevil outbreak. Unusual rainfall at the time necessitated retreatment of many areas. The rapid runoff and the heavy application combined to produce a staggering loss of fish and fish food organisms in 36 streams in the area. Balanced productivity had not recovered 3 years after the application.

The method of application is in many cases not precise, the pesticide being restricted neither to the pest species nor to the area where applied.

Many kinds of chemicals, mainly chlorinated hydrocarbons, which are the DDT group are very stable and can sur-

vive in potent form in soil, water and living tissue. Many are acted upon by physical effects to form a residue which may still be toxic. Next to insecticide resistance, no problem of chemical pest control has more significance. The soil is a great reservoir for the build up of residues. As an example, the possibility of DDT accumulation in soils from spraying is more likely in orchards, and with crops where the green plants are turned under and incorporated in the soil after each harvest as with potatoes and sweet corn. In a study of 12 apple orchards in Australia, DDT after 6 years of use, ranged in lb./acre from 35 to 113 under trees, and 26-21 between trees.

Incidious and hidden pathways of biological transfer of chemicals is another problem. Delayed toxicity is one of these. It is completely incidious and goes unnoticed until mortality occurs. Approved and recommended procedures have produced it. The pesticide is applied at a "safe" level often over a period of time. It is a result of the general distribution of stable pesticides. Secondary poisoning is a case of the death of an animal from eating a poisoned animal, or plant. The use of compound "1080" is all very well to control rabbits, but is also succeeding in controlling many other native animals and birds.

Transferred effects are also hidden. Chemical control, while removing most of a pest population, also causes reductions in populations of other areas under treatment. Food shortages follow, which if extreme, lead to debility, starvation or emigration of species.

Their use is entirely too narrow minded in relation to the effects they produce. The technically supported viewpoints of the conservationist, the biologist and sociologist are too frequently overlooked in pest control programmes. Also lacking, is the concern for aesthetic and moral values which must be considered. The

unnecessary annihilation of animals, birds and fish due to non specific application of pesticides is something to be reckoned with.

The facts of pesticide control should be more widely published. Until 1962 when Rachel Carson's highly controversial book, "Silent Spring" was published, not many people knew the effects of these pesticides.

One may well ask what can be done about this problem. It is a fairly insoluble problem, but some steps can be taken to alleviate it. Biological control is one obvious outlet, but more work is needed in this field. To show the impact of biological control, a bacterial insecticide "Bacillus thuringiensis" has been investigated by CSIRO for me as a non chemical weapon against insects. The micro-organism causes a disease within the insect, and destroys it. It is completely harmless to man, and more than 120 pests of orchard, field, vineyard and stored food have been found to be susceptible to it.

When pesticides are skilfully applied to living systems, with a comprehensive knowledge of their target purposes, their effects and values require no questioning. However, if more care is not taken in the future, there may be one year, a silent spring.

The Problem of Tractor Noise

Noise is UNWANTED SOUND.

Excessive noise levels affect health and hearing, and tractors produce excessive noise levels as judged by recognised industrial standards.

When overall sound pressure levels exceed 85 decibels on the noise scale, then immediate effects will be experienced by persons continuously exposed to the noise, and with longer term exposure, hearing defects are likely.

Noise-induced hearing loss is generally not recoverable, and is a serious social disadvantage. According to the Australian Tractor Test Station, some tractors on full power produce over-all noise levels exceeding 110 decibels, and most exceed 85.

You can gauge, very roughly, this level (85 dB) of noise if it becomes necessary to shout above the racket to be heard at a distance of three feet from the listener.

At these levels of noise at the operator's station, some control is essential, unless the operator could take lengthy periodic breaks during his working day!

An efficient muffler would help somewhat, but so far the art of quietening tractors has only just kept pace with increases in horsepower in recent years—there has been no general reduction.

A soundproof cabin?—perhaps.

Ear plugs and ear muffs are the only alternative then. The plugs, designed to occlude the ear canal must be fitted correctly, using a fitting gauge.

The ear muffs, which cover the external ear, are more comfortable, but are less convenient at times.

All full-time tractor operators should wear some form of ear protection.

A quieter machine is NOT inconsistent with high performance—noise doesn't always indicate power! If this message gets through to the future tractor buyer, and if he would realize the hearing benefits and greater productivity which could be obtained with less noisy surroundings, perhaps the way will be clear for quieter tractors.

Meanwhile—where did I drop that other earplug?

G. R. QUICK,
Senior Lecturer in
Agricultural Engineering.

R.O.C.A.

OFFICE BEARERS 1965-1966

President: W. S. EDGE
Past President: G. P. ROE
Vice President: J. M. GORE
Hon. Secretary: H. V. STEPHEN
Hon. Treasurer: C. W. HOOPER
Ex-Officio: R. I. HERRIOT (Principal)
Committee: R. W. FEWSTER, R. G.
RYAN, R. J. FORD, R. S. NORTON,
T. J. SOBELS, C. H. KAY
Hon. Auditor: B. C. PHILP

ANNUAL REPORT

This is the 68th Annual Report of the Roseworthy Old Collegians Association and I am happy to report another very satisfactory year. Thanks to the efforts of previous committees, and the interest created by the publication of the Digest, this year has been a very satisfying period for me, as President.

The enthusiasm shown by the Sub-Branches, and by many individual members, who have contributed to the Digest, has stimulated a lively interest in Association affairs.

The Treasurer's Report, which follows shortly will indicate the sound financial position of the Association. Membership for this year (with last year's figures in parenthesis) is as follows: Life Members 597 (600), including Honorary Life Members and Associate Life Members; Ordinary Members 193 (185). Total: 790 (785)—24 members joined during the year.

It is with deep regret that we record the death of the following members.

| | | | |
|--------------------|-----|-----|-----------|
| H. D. M. Adams | ... | ... | 1898-1901 |
| (Rev.) W. T. Terry | ... | ... | 1898-1900 |
| J. W. Crompton | ... | ... | 1905-1907 |
| R. E. Neville | ... | ... | 1910-1913 |
| A. T. Jefferies | ... | ... | 1905-1907 |
| L. J. Cook | ... | ... | 1907-1910 |
| H. C. Catt | ... | ... | 1910-1913 |
| R. J. Wilson | ... | ... | 1922-1925 |
| J. L. Hutton | ... | ... | 1936-1939 |

To the relatives and friends of our late members we express our deepest sympathy. On your behalf I sent a wreath to the funeral of the late Len Cook, who received the Award of Merit in 1964.

No doubt you have read the reports in the Digest of another successful re-union of the Eyre Peninsula sub-branch. Your committee was, once again, well represented and the enthusiasm of members of this branch is an inspiration to those of us who were fortunate enough to be present. Congratulations to Des Habel and his team.

We were delighted to receive the report, published in the Digest, of the S.E. branch re-union, held on 1st December, at Naracoorte, and from the tone of the reporter there is evidence that this branch could indeed give the "Coasties" some "hurry up" in the near future.

Another significant event is the re-birth of the Upper Murray sub-branch and it is expected that several committee members will attend their re-union on 28th September.

I feel that the Digest has been instrumental in increasing enthusiasm throughout the Association, and the wonderful response to my appeal for contributions has been so successful that our Editor, Ross Ford, has managed to run the Digest this year without calling a committee meeting. Ross deserves every praise for

the excellent job which he is doing, virtually single-handed, and I earnestly appeal to members to continue in supplying contributions to the Digest.

The management committee of the Digest comprises Messrs. R. S. Norton, F. B. Pearson, J. Ryan and W. Edge. The net cost of the Digest was \$183.

Ray Norton is another committee member who has earned a special mention for his outstanding success as manager of the "Student" magazine which, once again, was produced without cost to the Association.

In addition to the growing enthusiasm of the sub-branches a further pointer to the increased interest in association affairs is the proposed Dinner Dance to be held on 12th November. If supported, this could become an annual event.

I was pleased to be able to attend the College Speech Day as your representative.

The Award of Merit this year will be made to Dr. Alan Callaghan, known personally to many of us and known by repute to most others, as the man who put Roseworthy College "back on the map." Our heartiest congratulations to Dr. Callaghan in receiving recognition for outstanding work in the field of Agriculture.

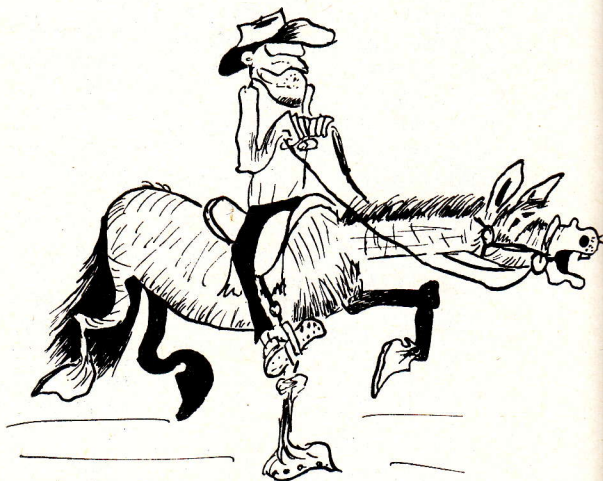
An event of possible significance this year is the proposed formation of an Australia wide Diplomates Association. A meeting of delegates from all Agricultural Colleges is scheduled for 24th August at Wagga, N.S.W.

It was with regret, and some consternation, that I learned, just prior to making out this report, that Harry Stephen, our Hon. Secretary of the past five years and Treasurer 11 years before that, is leaving the College and will be unable to continue as Secretary. Very few members, even those on the committee, can realise the amount of work that Harry has done over the years, but I know that the smooth running of functions such as the A.G.M. and re-union dinners has been due to Harry's able management and organization. I know you will join me in expressing sincere gratitude to Harry for work well done and best wishes for the future.

Apart from those members, whose names I have mentioned, there are many others such as Cliff Hooper, who have done, and are doing, unselfishly and with efficiency and competence, a great deal of work for the benefit of all members of the Association. My personal thanks to all such members and also to the wives of committee members who gave us the use of their homes for committee meetings and supplied such excellent suppers.

In conclusion, may I say that I have enjoyed my term as president and I am grateful for the support you have accorded me and I hope you will continue to assist the in-coming committee to the same extent and may the association have continued success in the future.

W. S. EDGE,
President.



"They're a weird mob alright, this one can ride!"

Introducing the President



JOHN GORE was educated at St. Peters School Collegiate and King's College and after leaving spent a number of years jackerooing on pastoral properties in S.A. and N.S.W.

During World War II John served with the Navy originally and then later with the Army.

After World War II, from 1948-1950 he came to Roseworthy. During that time he was a year on the Students Representative Council, Editor of the illustrious magazine and highlighted his sojourn by captaining the A Grade football team to the Premiership in 1950.

From 1951-55 John returned to the regular army and served in the Korean war as Captain. He married in 1955 and in partnership with his wife started farming at Inman Valley, running sheep, beef cattle and a very successful Jersey stud. They have an active interest also in family pastoral properties in S.A., N.S.W. and Queensland.

These activities are not enough for John, and all who know him will appreciate this. As well as being our President, he is Secretary of the local Ag. Bureau, The Rabbit Eradication Committee, School Committee and The Mt. Compass Jersey Cattle Club. His list of Presidencies includes The R.S.L. Sub Branch, Primary Producers District Committee, State Wool and Stock Section of the A.P.P.U. To round things off he is a member of the State Lamb Committee, Life on the Land Radio Panel and when he has nothing to do, each week writes a column for the Chronicle.

It can be seen that John Gore is a worthy President and one who by his nature will make things move for the good of the Association.

Notable Old Collegian



Robert Irvine Herriot attended Adelaide High School then The University of Adelaide, where he graduated B.Ag.Sc.; one of the first two to receive this degree from University of Adelaide in 1932. He subsequently became Agriculture and Science Master at Balaklava High School from 1932-35, and Mount Gambier High School from 1936-37. From this he worked as Research Officer, C.S.I.R. Division of Soils from 1937-1941, conducting soil surveys in South Australia, Victoria and New South Wales.

In 1941 the S.A. Department of Agriculture appointed him as Soil Conservator and for the next 12 years was actively engaged in awakening S.A. public to the problem of Soil Conservation, building up the Soil Conservation Branch in the Department of Agriculture and developing control programme on S.A. farms.

This included intense activity for the control of wind erosion in marginal lands during and following the severe 1944-45 drought, during which time the main features of the S.A. Soil Conservation Act were devised and passed by Parliament.

Whilst other States were vigorously promoting the use of engineering devices to control water erosion, Mr. Herriot taught the philosophy that the first line of defence was to "absorb the water where it falls". This involved changing techniques of farming back stopped only by such mechanical works as Contour banks.

In 1946-47 he was a member of the Pastoral and Marginal Areas Enquiry Committee, set up by Parliament to investigate the problems of land use in these areas.

He was a member of the Standing Committee on Soil Conservation from its inception and during this time in particular travelled widely in all Australian States.

1949—President, S.A. Branch A.I.A.S. In 1950 he was sent overseas by the S.A. Government to investigate Soil Conservation activities, rural youth organisations and the organisation and development of extension services and their techniques. He was away about 9 months and visited U.S.A., Canada, U.K., Holland and Ceylon.

In 1954, at a time of substantial structural reorganisation in the Department of Agriculture he left the Soil Conservation Branch and was appointed Chief, Division of Extension Services and Information. In this capacity he was responsible for the development of a more active extension policy by the department, and for pioneering in-service training of departmental officers in extension methods.

1957. He was appointed Deputy Director of Agriculture in addition to his previously existing extension responsibilities.

1957. Invited by Agriculture Stock and Fisheries Department of New Guinea as guest lecturer on "The Social Content of Extension Work" for a New Guinea officers conference held at Goorka. This assignment provided an unusual opportunity to see at first hand agricultural progress in that island. He travelled extensively during a period of 6 weeks visiting Papua, Lae, Madang, Goroka, Mt. Hagen, Wewak and New Britain.

In 1962 he was appointed as Principal at Roseworthy and during this time has worked very successfully to improve conditions, and to lift standards.

This outstanding contribution to agriculture automatically places Robert Herriot among the ranks of Notable Old Collegians for which Roseworthy is famous.

Student Roll, 1965-66

AGRICULTURE

Year III

ANDERSON, I.
CARTY, R. I.
CLANCY, A. J. R.
COOPER, D. J.
COOPER, M. J.
CURLEWIS, J. H. C.
FREEMAN, M. O.
KEAIN, K. T.
KLINGBERG, J. R.
LAWTON, J. L.
McGOWAN, C. J.
MERCKENSCHLAGER, M
OSBORNE, R. J.
PANNACH, D. D.
PATTINSON, K. W.
PICKETT, I. J.
WESTBROOK, K. D.
WIGNEY, B. L.
WOODS, M. J.

Year II

BABIDGE, M. H.
BROWN, R.
CAUDLE, C. R.
COCHRANE, M. J.
CRAWFORD, D. M.
CROSBY, R. B.
ECKERSLEY, G. C.
DAWKINS, J. S.
DAWKINS, R. M. G.
EVANS, J. W.
FROMM, G. M.
HAY, R. S.

HOLLOWAY, R. E.
HURN, C. R.
HUTCHINSON, R. C.
JONES, J. A.
JONES, P. I.
JONES, P. L.
KOHNKE, J. R.
MARCH, T.
MORTIMER, B. K.
NEWLAND, N. P.
NICHOLLS, M. R.
NICKOLLS, J. D.
PARTINGTON, R. E.
RYAN, P. J.
SCHRAPEL, G. L.
SLUITER, K. E.
SHAW, P. L.
TWIGDEN, T. K.
WOODS, K. M.
YEO, P. D.

Year I

ALLEN, W. G.
BOERTH, B. W.
BOWLES, W. J.
BROOKE, M. L.
COOPER, J. P.
DAVIES, J. B.
ELSDEN, W. A.
GEORGE, S. C. S.
GILES, W. G.
GLAETZER, C. J.
GLAETZER, J. C.
HABGOOD, R. H.
HARVEY, J. O.
HENDER, R. W.

IBBOTSON, N. A.
JOHNSON, K. L.
KIRKWOOD, G.
LANE, K. V.
McCALLUM, K. A.
MIEGEL, D. E.
MOWATT, G. H.
MURRAY, S. R.
NASH, R. J.
PAYNE, G. F.
PAYNTER, R. C.
PENGELLY, D. S.
PHILP, B. W.
RILEY, M. J.
SCARBOROUGH, I. R.
ROESLER, W. J.
SHAKESPEAR, P.
STANLEY, M. J.
STEWART, J. R.
SMITH, C. J.
TAPLEY, I. J.
TURNBULL, R. K.
USHER, T. R.
WATSON, W. D.
WHITING, R. A.
WOMERSLEY, J. C.

OENOLOGY

ANDERSON, J. K.
BALDWIN, R. D.
CAMPBELL, C. B.
CARTWRIGHT, R. G.
HOEY, A. W.
LIEBICH, R. E.
WALDECK, P. K.
WARD, W. W.