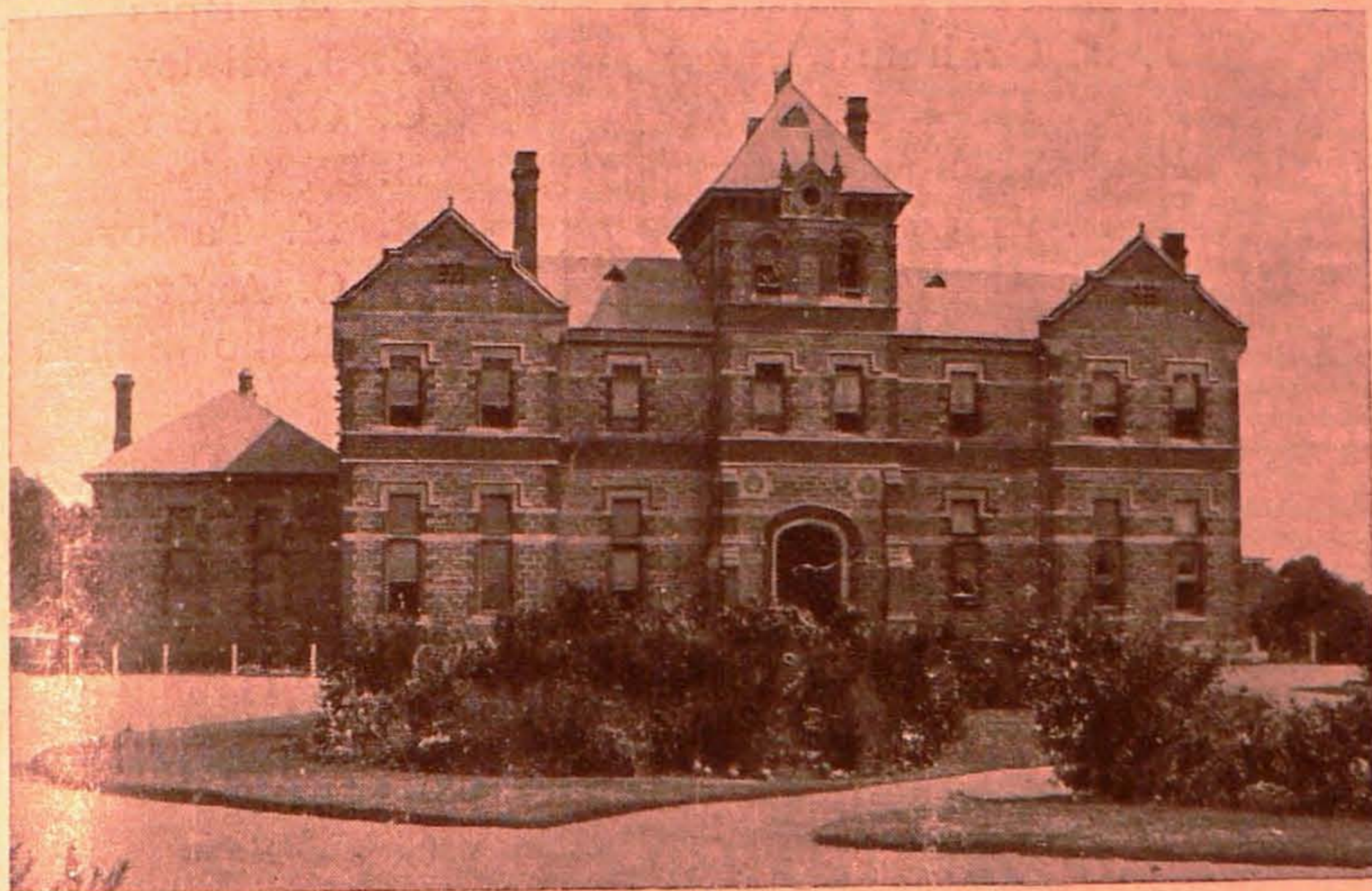


# The Student



## ROSEWORTHY AGRICULTURAL COLLEGE.

Vol. XV.,  
No. 2.

NOVEMBER,  
1914.

# PRESENT STUDENTS.



## THIRD YEAR.

O. S. Symon  
F. H. O. Dealy  
J. J. Graham  
F. O. H. Martin  
R. A. Keddie  
R. L. Frew  
H. H. Orchard  
G. C. Walkem  
S. H. Reed

B. Fuller  
W. A. Ross  
S. J. Sibley  
C. G. Prevost  
S. P. Opie  
B. M. Taylor  
F. C. Andrews  
G. Talbot-Smith

## SECOND YEAR.

T. S. Dealy  
S. G. King  
E. G. Padman  
D. G. Quinn  
R. H. McBride  
A. M. Tilly  
B. Conway

B. C. Hamilton  
H. S. Bradshaw  
F. George  
G. E. Bagot  
W. D. Haggard  
E. S. West  
A. J. Whiting

## FIRST YEAR.

H. R. Brock  
K. C. Catt  
W. E. Inglis  
E. J. LeMessurier  
W. H. Lewcock

A. F. McIntosh  
V. T. O'Grady  
F. Riggs  
D. Whishaw

"Et conflagrant gladios suos in vomeres et lanceas suas in falces."

# Agricultural College,

## ROSEWORTH,

### SOUTH AUSTRALIA.

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THE HON. T. PASCOE, M.L.C.

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Mr. J. PAULL.

*Supt. of Farm and Live Stock:*

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(Diploma Agricultural College, Roseworthy)

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Mr. D. F. LAURIE.

*Lecturer on Dairying:*

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(Diploma Agricultural College, Roseworthy)

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Mr. D. J. McEWEN.

*Demonstrator in Agriculture:*

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*Secretary and Lecturer on Book-keeping:* Mr. H. C. PRITCHARD.

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1914-15.

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## COUNCILMEN:

Messrs. Reed, Tilly, Inglis.



*"Main Building from Flagstaff, 1914."*

(B. Conway)

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# The Student.

Published by the Old Collegians' Association, under the joint direction of Past and Present Students.

EDITED BY THE STUDENTS.

VOL XV.—No. 2.

NOVEMBER, 1914.

## Current Notes.

For the whole State the season has been a most trying one, to say the least of it, and upon the farming community its ill-effects fall most heavily.

Nor are we the only State to suffer for the drought is more or less general throughout the Commonwealth, in which localities growing good crops are exceedingly limited in area and far between.

When our last issue of the "Student" appeared the outlook was certainly bad, and since, matters have gone from bad to worse, till at the time of writing our prospects are, indeed, far from bright.

The fact, that since the finish of seeding (End of April), until the time of writing (end of October), we have only had 236 points of rain here, speaks for the state of our crops, pastures and plight generally.

The great European War, which broke out just after our return last session, is another factor which will make the effects of the bad season felt the more, and more keenly according to the length of time the war lasts.

It is, indeed, difficult for us out here to realise the magnitude and seriousness of the present conflict being waged 12,000 miles away, but we must, and act immediately. As far as concerns Australia and ourselves the result of the war must be victory for the Allied Forces engaged, and we must make great sacrifices to gain that end.

Australia is OURS. We are proud of it now and of what it will be in time to come, under British Institutions and Laws—and, although the conflict is being waged in Europe, for the main part, the question whether Australia, our country, remains so or not is being decided. There is only one answer for us, especially the "man on the land," if he values his land and desires to remain free of burdensome and unbearable taxes in the future to support a military rule directed from Berlin. Therefore, no sacrifice which we may make either as individuals or as a Commonwealth, will be too big if it helps to keep ours the land of our birth, the Mother Country intact and the British Empire the greatest and most glorious Empire the world has ever seen.

---

Two of our present Third Year Students, Reed and Fuller, left us early in the term to join the First Expeditionary Force as infantrymen. Many Old Students, too, have gone, and we shall get together a list of them for our next issue. To all these men we wish the best of luck and a safe return. We feel confident that their campaign will be successful, and that the honor of the College and Australia is in safe-keeping in their hands. Again—Good luck to them!

---

Full account of our annual visit to the September Show will be found elsewhere in the issue. Our exhibits of sheep, swine, and cattle were all more or less successful—a representative of each of the two former classes of livestock being responsible for a championship ribbon.

During Show Week we were given opportunities of making various interesting excursions of educational value.

On the Monday Mr. Phillips took the Third Years down to Port Adelaide to see the "Super." Works and "Sugar Refinery." We spent a very enjoyable day, and sincerely thank Mr. Phillips for the opportunity to see these works, and last, but not least, the luncheon.

On the Tuesday we spent another day at Port Adelaide, this time at the Ram Sales, as the guests of Elder, Smith, Ltd., and in the care of Mr. Jackson.



Another interesting and enjoyable day with an excellent lunch. We were disappointed in the smallness of the bids, but under the circumstances, big bids would have been out of place.

On the Thursday Mr. Colebatch kindly took us first round the sheep exhibits, and showed us the good and bad points of the various breeds; afterwards we had a look over and had explained to us several of the implement exhibits—this morning's excursion should be of use to us later on.

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There was not the annual "Farmers' Day" at the College this past session, owing, chiefly, to the bad state of the crops, and a visit under such circumstances would have been of no educational interest or value at all to farmers.

As far as we can see the only effect such a visit could have had on those making it, would have been of a soothing nature; insofar as they could have seen for themselves that their crops were no worse than ours, but possibly the sight of our crops might have recalled to them the look of theirs, from which they were, no doubt, glad to be away for a week.

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Early in the session some of the party of the British Association, which were visiting Australia, paid us a visit. They were in charge of Professor Perkins and Mr. Spafford, who were joined here by Mr. Colebatch and shown over the whole place.

Luncheon was served in the Dining Room, and their speeches seemed to indicate that their visit was of interest to them, whether of value, we don't know, but it must have been.

The man we looked forward to seeing was A. D. Hall, of Rothhampsted—such is the penalty of fame—but we were disappointed as he did not come. In many ways his work means much to us.

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The new thresher shed has been finished and is a very satisfactory addition to the already existing farm buildings.

It is behind the Southern Wing of the new stables, and faces the sheep dip. All the working parts are under cover, and there is a covered in unloading way. We rather doubt, on present appearances, if it will be as cool to work in as the old place with its sheds (?), and it was certainly hot there.

---

The football season just past has not been a very successful one for us, indeed, it has been a bad one.

Beginning the season at the head of the Association list, full of confidence, we finished next to bottom of that list owing to want of method and a consequent increasing lack of confidence as the season advanced.

Full account of the season will be found elsewhere in the "Student."

---

Tennis has flourished more or less, but the lack of funds is a great handicap to its progress. One court wants relaying, but we fully realise the impossibility of such a work for a few years now. Both courts were top-dressed, new nets obtained, and the grass cleared round the sides, so now they do look like tennis courts, and are pleasant to play upon.

---

Our cricket prospects for the coming season seem very fair, and although we will not have as good a team as last year, we must hope for the best and do our utmost to keep our present position at the head of the list. There are five teams in the Association now; a Gawler team calling themselves "Tourists" having joined.

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### Farm Notes.

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Never before in the history of the College has there been such a season as this. The winter has been practically rainless, only 243 points have fallen since seeding. This, together with the continued severe frosts cut the crops about terribly. The barleys have turned out a total failure, and about 200 acres (Flett's and No. 16) have been fed off. This will prove a big loss to the

pigs as the barley was intended for pig feed. The rain and frost are not the only factors that have reduced the ultimate yields of our crops. About August several varieties of wheat were affected by a rare disease, Powdery Mildew (*Erysiphe Graminis*), which is dealt with elsewhere.

The wheat survived these adverse conditions fairly well, but were only to be attacked by sparrows when they ripened off.

When we returned from our holiday our attentions were directed to fallowing. No rain having fallen made the work difficult and expensive. Altogether about 420 acres have been fallowed, besides 100 acres (ploughed with single furrows) of experimental work. The fields fallowed are Grainger's C, Daly's, Islands A and B, and Ebsary's B. Fallowing was completed on October 9th, and all fields have been worked since fallowing.

Shortly after the Show shearing commenced and lasted about two weeks. This year we also sheared two outside flocks.

Shearing had hardly finished when a start was made hay-making. The following fields being cut:—Grainger's B, No. 5 A, Nottle's A and B, and Cultivation Plots, making about 250 acres. The yield will be low but the quality is excellent and will be relished by the stock. Fifteen acres in Grainger's B went 20 cwt. per acre, but the average all through will be about 15 cwt.

Sixteen acres of oats in 5 A were cut with the mower and loose hay made from it. It is intended to feed this to the cows.

A few odd varieties have been stripped a little on the green side to save them from the sparrows.

Although 200 acres of barley has been fed off, the selection plots are very short, and a few have been stripped.

Up to the present the Manure and Depth (King's White) plots have been cut for grain. The crops in the Manure plots are the best on the farm and should average about 20 bushels. The Depth plots are not so good but should yield well. The No. 4 crops are being cut and the yields will vary considerably.

There are very few farm grain crops this year. A good patch of Late Gluyas, together with three selections of King's Red, and also one of Queen Fan have been left in Nottle's B; while Ebsary's C has also been left for grain. Most of the King's Red has been cut, but the Late Gluyas is quite green yet.

The wheat sample will most probably be a little pinched due to the recent hot north winds, but still the average yield should be about 12 bushels. The abnormal season here caused a big set back to the "Hand Plots," but still there are some very good wheats among them.

There is practically no feed on the pastures; the mustard in Grainger's D turned out a failure, but this field should make a good bare fallow, being well consolidated by the sheep.

The lucerne plots have grown right through the winter, and the yields have been very fair. In Plot H the lucerne became very thin and berseem was broadcasted with the lucerne. This experiment proved a failure, but it is perhaps due to late germination of the berseem.

The lucerne in Plots K and M has proved invaluable to the cows, and the yields, although not as heavy as last year, are good. Both plots are now on their last growth, the warm weather bringing them our in ear.

The old paspalum in Plots E and F has been ploughed in and sorghum was planted. This germinated poorly and the paspalum is appearing all over the plot, and it will probably take some years of cultivation to stamp it out. Plot G was broken up and sown to maize. This germinated well and is making good healthy growth.

Our stock numbers have been greatly reduced. Most of the pigs have been fattened off and sold because of the shortage of feed. Several cows and heifers have been also killed.

The sheep have undergone a severe culling, and a large number are being killed for rations. The lambing percentage turned out only satisfactory this year, 77.3 per cent. all through. A large percentage of the merino lambs died from exposure shortly after birth due to the severe frosts. The lambing of the South Downs was heavy, and twins were recorded on several occasions.

The foxes did not trouble the lambs very much, although a large number were poisoned.

We regret to record the death of two of the farm horses. Both died in harness. Old Don, due to heart failure, and a promising youngster, "Gowrie."

There have been various improvements this session. A large thrashing shed has been erected near the new stables. It was intended to lay the floor in this session, but funds are insufficient. New floors have been laid in the middle stables and cow byres. The old steam separator has been replaced by a new tubular separator which separates 45 gallons per hour.

At present collar racks are being erected in the cart shed with a view to seeing that every horse has his right collar.

—F.H.O.M.



## Trip to "Concordia."

(September 19th, 1914).

In past years it was not usual for the seniors to visit Mr. Alick Murray's stud stock of sheep at "Concordia." The trip used to be made several years ago, but was suspended for a time. It has been again revived, and will, we trust, be held as an annual event.

In the company of Mr. W. J. Colebatch and Mr. H. E. Laffer, we started early in the morning. Arriving at Gawler about 12 o'clock, we drove up to the "Old Spot" hotel. Mr. Murray himself welcomed us in.

Lunch was at 1 o'clock. After the repast was over O. S. Symon rose and proposed the health of Mr. Murray, at the same time acknowledging the kindness of our host. This was seconded by F. H. Dealy. Mr. Murray then rose to reply. In a pithy and humorous speech he remarked how glad he was that we were able to avail ourselves of his invitation. Mr. Colebatch followed with a few words. He tendered the thanks of all of us to our host and drew our attention to the fact that

Mr. Murray for many years had taken a great interest in the work of the College and even in the students themselves.

The toast, "Mr. Murray," was drunk, and after singing "For he's a jolly good fellow" the proceedings came to an end.

After a pleasant drive we arrived at Concordia at 2 30 p.m.

While we were there we had the opportunity of inspecting and handling some of the stud sheep. Mr Henshaw Jackson, the wool expert, who was present, pointed out the main features to be noted. Mr. Murray gave us a general practical idea of the chief considerations to be observed in breeding a flock. He maintains that one must combine wool production with meat production, a large frame, deep chest and flanks being essential to a strong constitution. It is useless to attempt to breed with intention of producing animals pre-eminent in any one of these qualities. Again, where Merinos are concerned, the deep-chested animals, with as few neck folds as possible, are to be preferred, giving a more even type of wool. Breeders will naturally exercise their own particular judgment and fancy in such points.

It was not until 5 o'clock that we left "Concordia." Before our departure Mr. Colebatch said a few words to our host, who responded. After giving three ringing cheers for Mr. Murray, we drove off.

We arrived at the College at 7 p.m.

From a practical point of view this visit proved most interesting to all of us. It is needless to add that many useful points were gathered. Apart from the educational side it proved a very pleasant outing, and none of us can appreciate too fully Mr. Murray's kindness in inviting us.

—F.H.D.

## Healthy-Mindedness.

---

Complete health includes healthy-mindedness, and who would not rather be a cripple than have an unclean spirit? But how is healthy-mindedness to be fostered? We shall never get beyond the ancient counsel: "Keep thy heart with all diligence; for out of it are the issues of life." Many know "the expulsive power of a new affection," as Dr. Chalmers phrased it; many know also the value of pre-occupying the mind with things true, honest, just, pure, lovely, and of good report. To garrison the mind with high interests and lofty purposes makes for safety.

To many comes the trouble that, through no fault of their own, they see obscene sights or indecent pictures, or read lascivious passages, or hear ugly stories, which remain with them as pestilential memories. In such cases we must try and bear the unwholesome impressions out in a swift current of joyous adventure. And if they sink as foul things will, and rise worse than ever to the surface again, we must change the subject persistently, and do something active. But should they still persist, as they sometimes do, like blots in the brain, we must look at them fair and square, and squeeze the life out of them by understanding them and something of the unwelcome physiological power they have over us. As long as anything mysterious remains they will return to us or we to them, so it may be helpful in obdurate cases to read up some thoroughly scientific book and get a clean, clear view of the facts. But to read pathological literature because of some obsession is, we believe, the worst possible expedient.



## Superphosphate and Sugar.

---

With the permission of the Wallaroo-Mt. Lyell Fertilisers Co., Ltd., a party of third year students had an opportunity, on Monday, September 7th, of studying the methods employed in manufacturing chemical operations, particularly the preparation of "superphosphate." This Company's representative, Mr. Napier, kindly met

the party at Port Adelaide and introduced them to Mr. Baudniet, Works Manager at Birkenhead. Mr. Baudniet first explained the Nitric Acid "plant." This consisted of heavy iron chambers or retorts set in brickwork above furnaces, into which the Sodium Nitrate and Sulphuric Acid is charged and distilled. The Nitric Acid vapors are conducted by earthenware pipes to a series of water-cooled glass condensing tubes, from which the acid is collected in the familiar earthenware jars.

The manufacture of Sulphuric Acid was next examined. Commencing with large circular roasting furnaces through which pulverised pyritic (iron sulphide) ore is slowly passed producing Sulphur di-oxide gas and oxide of Iron. Thence the hot gases, consisting of Sulphur di-oxide and air, passing along a brickwork flue, receive small additions of Nitric Acid vapors from a retort placed in wall of the flue. Rising through the loose brickwork of a tower, down which flows a stream of Sulphuric Acid containing oxides of Nitrogen, these gases are cooled and receive further additions of Oxides of Nitrogen. Some formation of Sulphuric Acid takes place in this tower, known as the Glover Tower, but as a whole the gaseous stream flows on through lead flues into the first of four large lead chambers, where, with the addition of steam, the reactions take place, resulting in the formation of Sulphuric Acid, which collects on the bottom of the chamber. The gases escaping from the last of these chambers, consisting mainly of Nitrogen, are passed up a tower, the Gay-Lussac tower, through loose brickwork over which flows a stream of cold Sulphuric Acid, which removes, by dissolving, any oxides of Nitrogen which have escaped reaction in the chambers. This Sulphuric Acid then re-delivers these Nitrogen Oxides to the gaseous stream in the Glover Tower.

The powerful machinery used for crushing the Pyritic ore was noted, and, in the open, heaps of Phosphate Rock were seen. Most of this rock is imported from Christmas Island, but a smaller heap of South Australian rock indicated that a small proportion of our local phosphate finds its way back to our farms. Unfortunately the South Australian material is not so pure as the Christmas Island product—containing rather large quantities of iron and aluminium phos-



phates, which are not required and produce a rather sticky superphosphate. Mr. Baudniet remarked that at the present rate of consumption Christmas Island contains a practically inexhaustible supply of Phosphate Rock. The machinery for grinding the Phosphate Rock was not in motion, but the turning of an electric switch set the massive wheel revolving, and the passage of the pulverised rock through sieving apparatus and by elevator to top of this building, was readily followed. Here, an automatic weighing hopper delivers four cwt. of powdered rock into a kneading and mixing chamber, where the charge of Sulphuric Acid is also added and thoroughly mixed with the powder by powerful rotating metal blades. The mass then drops into a chamber or den capable of containing several tons of such material. After lying for some 24 hours in this den the chemical reactions are complete, and the almost solid mass is pushed out horizontally by a ram—disintegrated again by rotating blades which meet the face of the slowly moving mass—re-elevated to the top of the building, dropped on to a running rubber belt and carried thus into a drying and storage shed. The heaps thus formed are eventually broken down with pick and shovel and the material passed through light crushing, sieving, and automatic weighing and bagging machinery into the well-known sack. An inspection of the convenient wharfage and shipping facilities completed the tour of these well arranged Works, and with expressions of thanks to Mr. Baudniet, an adjournment was made for a rest and lunch.

During the afternoon The Colonial Sugar Refining Co. kindly allowed a visit to their Refinery at Glanville. Under the leadership of Mr. Fisher, Chief Chemist at this Refinery, the course of the crude brown sugar—produced at the Queensland Sugar Cane Mills—was followed through the processes required to manufacture the pure white sugars required in this State. From the huge storage shed the crude sugar passes to the melting and clarifying pots, through ingenious filtering arrangements, and emerges thence a clear brown syrup. This colored solution then flows through beds of coarsely ground charred bone and emerges a water white thin syrup. The color removing power of the bone char being limited, it eventually becomes necessary to dry and reheat the char. The furnaces and mechanical appli-

ances for effecting this were noted with "warm" interest. The evaporation and crystallization of the sugar solution at a low temperature in Vacuum Pans, the removal of adhering syrup, and light washing with water which the sugar crystals next receives in centrifugal sieves, was explained by Mr. Fisher. Thence the sugar was followed in its course through heated rotating cylinders to the storage room, where glistening heaps indicated the successful completion of a great Australian industry, and remind South Australians of the varied and vast resources of their native land.

Other items of interest were the bag making and tin-can manufacturing departments, and finally a wash, and a few moments rest in the analytical laboratory. Here, Mr. Fisher explained the use of the all-important Polarimeter by which the amount of sugar in a solution is quickly determined. The Chemist in the Refinery is required to constantly examine the products at all stages of manufacture, and must account for all losses incurred, and as far as possible prevent any waste of sugar in its journey through the Refinery.

J. H. PHILLIPS,

Teacher of Chemistry.





*Photo of Football Eighteen, 1914.*

## Football.

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The season 1914 ended, for us, on September 26th, on which date we were badly beaten by Centrals, in the semi-finals, on the Gawler Oval. Centrals eventually headed the premiership list by beating Salisbury in the play-off of the finals. We congratulate them.

Our final position, next to bottom of the list, is rendered the much more conspicuous by the fact that we held the Premiership for the two years preceding, viz.: 1912 and 1913.

Our team this year, as results show, was much below the form of average college teams, and we were unfortunate enough in possessing a fairly large tail, which managed "to wag" in one or two matches only. The main cause of our downfall was due, however, to lack of cohesion and method and over confidence at the beginning of the season.

We have been bottom before, and worked our way to top. We can and will do it again.

Throughout the season several of the team were always conspicuous and played hard against big odds. Of these we might mention Mr. Baker (playing his 11th year for the College), Sibley, Taylor, Prevost, and Scott.

The question of satisfactory umpires was never solved by the Association, with the result that many of the matches were marred owing to the umpire losing control of the game or being inconsistent in his decisions—we don't doubt for a minute that the several umpires did not do their best, but the trouble right through was that no umpire this year had, more or less, the mutual support of all the clubs in the Association.

The trophy, presented by Mr. Dave Smith for the best and most fair player in the Association, was won by Sibley. We heartily congratulate him.

### COLLEGE v. CENTRALS.

Played at College, July 14th. College kicked North. The game throughout was very rough and willing, and the crowding of the ball made the game a scramble. Our kicking was bad.

Scores—First Quarter—		
Centrals	...	4-2
College	...	3
Second Quarter—		
Centrals	...	5-5
College	...	3-3
Third Quarter—		
Centrals	...	9-11
College	...	5-5
Final—		
Centrals	...	9-11
College	...	8-8

Best players for College were Taylor, Prevost and Graham.

Goalkickers—Sibley 2, LeMessurier, Taylor, Keddie, Muller, Andrews and Graham, 1 each.

#### COLLEGE v. WILLASTONS.

Played on Gawler Oval on July 11th. College kicked West against a very strong and gusty wind, which made the kicking throughout very poor. The team played badly, spoiling one another as often as not.

Scores—First Quarter—		
Willaston	...	6-5
College	...	—
Second Quarter—		
Willaston	...	6-5
College	...	4-5
Third Quarter—		
Willaston	...	10-17
College	...	4-5
Final—		
Willaston	...	12-18
College	...	5-7

Best players for College were —Mr. Baker, Orchard, Taylor and Prevost.

Goalkickers —Sibley 3, Andrews and Taylor, 1 each.

## COLLEGE v. CENTRALS.

Played on Gawler Oval on August 1st. Centrals won toss and College kicked East. Very warm day with no wind. Our chief fault arose from our crowding the ball and poor kicking.

## Scores—First Quarter—

Centrals	...	3-7
College	...	1

## Second Quarter—

Centrals	...	4-11
College	...	2-4

## Third Quarter—

Centrals	...	10-13
College	...	2-4

## Final—

Centrals	...	16-18
College	...	5-8

Best players for College were :—Mr. Baker, Sibley, Prevost and Dealy I.

Goalkickers :—Sibley 3, Prevost 2

## COLLEGE v. SALISBURY.

Played on Gawler Oval on August 22nd. College kicked East against a very strong wind, having lost the toss. The wind blew erratically this match. During the first half it blew hard, died down in the third quarter and got up again in the last. The team played well and deserved their win.

## Scores—First Quarter—

College	...	1-1
Salisbury	...	5-6

## Second Quarter—

College	...	3-5
Salisbury	...	6-7

## Third Quarter—

College	...	5-5
Salisbury	...	7-9

## Final—

College	...	8-6
Salisbury	...	7-10

Best players for College were :—Taylor, Andrews, Sibley, Frew and Ross.

Goalkickers :—Prevost 4, LeMessurier 2, Sibley and Ross, 1 each.

### COLLEGE v. SALISBURY.

Played at Salisbury on August 29th. College won toss for the first time this season and kicked North. A strong easterly cross-wind blew throughout the match, making goal kicking very difficult. Salisbury played well under the conditions. College team never got going, and were outclassed.

#### Scores—First Quarter—

Salisbury	...	2-3
College	...	4

#### Second Quarter—

Salisbury	...	5-8
College	...	4

#### Third Quarter—

Salisbury	...	7-8
College	...	5

#### Final—

Salisbury	...	8-17
College	...	5

Best players for College were :—Mr. Baker, Orchard, LeMessurier and Manuel.

### COLLEGE v. CENTRALS.

Played on Gawler Oval, September 5th. Centrals won toss and kicked with wind which blew from West. One of the best games put up by the College, especially during the third quarter. We were unlucky in losing.

#### Scores—First Quarter—

Centrals	...	3-8
College	...	1-2

#### Second Quarter—

Centrals	...	4-9
College	...	2-8

## Third Quarter—

Centrals	...	5-15
Co'lege	...	4-8

## Final—

Centrals	...	6-17
College	...	5-10

Best players for College :—Sibley, Taylor, Prevost, Baker and Frew.

Goalkickers :—Sibley and Andrews, 2 each, Prevost 1,

## COLLEGE v. CENTRALS.

This, the semi-final, was played in Gawler on September 26th. Centrals won toss and kicked West. Very little wind and what there was had no effect on the game. College played well and held their own up to half-time, but then died away, especially in the back lines.

## Scores—First Quarter—

Centrals	...	3-5
College	...	1-1

## Second Quarter—

Centrals	...	4-7
College	...	3-2

## Third Quarter—

Centrals	...	8-13
College	...	3-3

## Final—

Centrals	...	9-19
College	...	3-5

Best players for College :—Baker, Sibley, Taylor, Andrews and Prevost.

Goalkickers :—Prevost 2, Sibley 1.

The chief goalkickers for us this season were :—

Sibley	...	29
Prevost	...	18
Andrews	...	10
Taylor	...	7

Throughout the season we scored 83 goals 119 behinds, and had scored against us 120 goals 196 behinds.



## Critique of the Team

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(By the Captain).

SIBLEY.—The best placed man in the team, playing splendidly throughout the season. A splendid kick and best mark in the team. Is to be congratulated for obtaining the Association Trophy.

TAYLOR.—One of the best men in the team, has played consistently well, especially in the ruck, where he did his share of the work. Has greatly improved in kicking, but has gone off a little in marking, when compared with last year. A little too willing at times.

PREVOST.—Played a splendid game when roving, but a disappointment when playing forward, due to erratic kicking. A very hard man to beat, and uses what weight he has to perfection. A good solid mark.

ROSS.—Has improved wonderfully during the season, helped Taylor in the ruck. A good mark, but has yet to learn to kick, being rather poor in this department.

ANDREWS.—Plays a good game forward, good kick and mark, but should learn to get rid of the ball instead of trying to beat three or more men.

OPIE.—Played a fair game at the beginning of the season, but went off towards the end. A fair kick and mark. Should get a kick instead of fooling with the ball.

FREW.—Has not shown this year the football he played last season, could not seem to strike form. A fair mark, but has gone off in kicking.

GRAHAM.—Played a good game on the wing, having plenty of pace. Kicks fairly well, but a poor mark, should learn to hold the ball above his head.

MARTIN.—Played a fair game in goals, kicked off well, but very inconsistent in marking. When playing out in the field he is of little use, too slow in going for the ball. He should exert himself a bit more.

BAGOT.—A fair mark and kick, but will have to learn to put a little energy into his work before he can become a good footballer.

LeMESSURIER.—Rather a disappointment, never seemed to put enough heart into what he was doing. A fair mark and kick.

SCOTT.—One of the mainstays of the team, played well during the season, never knowing when he is beaten. A good mark and kick, getting his "toe" well into the ball.

MUELLER.—A fair mark and kick, should have more confidence in himself when playing in a match. Trained well towards the end of the season.

MANUEL.—Has played rather erratically during the season, putting up some good games as well as poor ones, a good mark and kick. He was rather an improvement when playing back.

ORCHARD.—Has played a very fair game during the season, marks and kicks well, a little too fond of trying to rush through too many men.

DEALY I.—Considering the circumstances played very well. He has yet a lot to learn before becoming an expert. Kicks and marks fairly well.

McBRIDE.—Has still a lot to learn before becoming a footballer, but should stick to the game, for he has the making of a good man.

WHITING.—Is inclined to funk a little, should have more confidence in himself. A fair mark and kick.

MR. BAKER (Capt.), by members of the team.—Has captained the team with very good judgment throughout the season. Played some very solid games and proved a very hard man to beat. Uses his weight to advantage, and is very cool-headed. Very good mark and a long kick.



### Tennis Notes.

Tennis match on August 8th, R.A.C. v. Kapunda. The tennis was played under ideal weather conditions, though in the morning the sun was a trifle hot.

The courts were in excellent condition, two of them being but recently laid down, while the third was rather cracked and uneven.

The match started in the morning and the College was successful in winning the first three single matches, namely, 1st, 4th, and 5th Singles.

In the afternoon play was resumed at 2.30, and we were unfortunate in losing the 2nd, 3rd, and 6th Singles, though we picked up and won the 7th and 8th, making us a total of five wins to three wins, thus establishing a good lead in the Singles.

In the Doubles our 1st and 2nd pairs went down to superior players, while the 3rd and 4th pairs both secured good wins, and thus secured the match by seven rubbers to five rubbers.

The following are the detailed scores of the match.

SINGLES.

Players.	Sets.	Rubbers.	Games.
1st—Sibley v. Newland ...	5.6 6.3 6.1	College	2 1 17 10
2nd—Frew v. Powell ...	3.6 5.6	K	0 2 8 12
3rd—Dealy i. v. Lewis ...	3.6 1.6	K	0 2 4 12
4th—Symon v. Riddel ...	5.6 6.3 6.0	College	2 1 17 9
5th—Dealy ii. v. Shannon ...	6.3 3.6 6.4	College	2 1 15 13
6th—Graham v. Sorrel ...	3.6 1.6	K	0 2 4 12
7th—Andrews v. Rhodes ...	5.6 6.4 6.2	College	2 1 17 12
8th—Fuller v. Rundle ...	4.6 6.4 6.2	College	2 1 16 12
		5 to 3	10 to 11 98 to 92

DOUBLES.

Players.	Sets.	Rub.	Games.
1—Symon & Graham v. Powell & Riddel	1.6 1.6	K	0 2 9 12
2—Sibley & Frew v. Lewis & Newland ...	5.6 4.6	K	0 2 2 12
3—Dealy i. & Andrews v. Shannon & Sorrel	6.4 6.3	College	2 0 12 7
4—Dealy ii. & Fuller v. Rundle & Rhodes	6.3 6.3	College	2 0 12 6
		2 to 2	4 to 4 35 to 37

Total—College 7 rubbers to 5, 14 sets to 15, 133 games to 129.

It will be seen from the above scores that the match was an even and well contested one, the result hanging in the balance right up to the final match. We were guests at a dance on Friday evening, and were also invited to a concert on Saturday evening; these, together with the tennis match made up an enjoyable trip. I am sure that I will be echoing the sentiments of the team in saying that we all had a rattling good time. We are also looking forward to a return match with Kapunda, when we will endeavor to repay in a small measure their many hospitalities to us.

R.A.C. v. ADELAIDE HIGH SCHOOL—Sept. 8th.

During the "Show Trip" we played a match against the Adelaide High School, and were rather badly beaten. However, it was only fair to put down our defeat, in a great part, to our nervousness, as we were playing on strange courts, with a large number of spectators and barrackers.

Also we were playing with two of the team out, their places being taken by S. B. Opie and G. Talbot-Smith.

We hope to have a return match later on in the year, when we will try to retrieve our defeat.

The following is a detailed score of the match:—

#### SINGLES.

1st—Frew v. Jacob	...	8.9
2nd—S. Dealy v. Schubert	...	7.9
3rd—F. Dealy v. Tiver	...	3-9
4th—Symon v. Statton	...	5.9
5th—Talbot-Smith v. Bunday		1.9
6th—Opie v. Tregoweth	...	3.9

R.A.C.—27 games; A.H.S.—6 sets 54 games.

#### DOUBLES.

1st—Frew & Symon v. Tiver & Jacob	—5.6, 6.4, 4.6.
2nd—S. & F. Dealy v. Schubert & Statton	—3.6, 2.6.
3rd—Opie & Talbot-Smith v. Bunday & Tregoweth	—3.6, 6.3, 1.6.

R.A.C.—2 sets 30 games; A.H.S.—6 sets 43 games.

Total—R.A.C.—2 sets 57 games.

A.H.S.—12 sets 97 games.

and top-dressed, and are now much improved.

During the session the tennis courts were patched

Of course tennis had to be discontinued meanwhile, and now it is to be hoped that the fellows will turn out and get in as much practice as possible.

The tournaments will be held as soon as it is convenient after we return from the holidays.

—R.L.F.



### Grass Mildew.

—————

This year, grass mildew (*Erysiphe graminis*), a typically dry-weather fungus, attacked a comparatively small area of our wheat crops. This is its first appearance here, and I believe, in Australia. There is no doubt, that the exceptional dryness of the season and the consequent feebleness of the young plants were very favorable to the development and spread of the disease; although it is authoritatively stated that had the climatic conditions been a little humid the area affected by the fungus would have been much more extensive.

Its ravages seemed confined to the young wheat plants, and isolated cases appeared amongst the oats; barley was not affected at all. With regard to barley, it was observed that, whilst a strip of barley in the Experimental Field remained untouched by the fungus, the wheat plants on either side of the strip were.

The wheat worst affected was "Federation," and less so "Wilmington" and "College Comeback."

#### APPEARANCE OF DISEASE.

Plants with close examination of them reveals "cobwebby," brownish-white, irregular spots on the sheaths and blades of the plant. The appearance at this stage is not unlike "rust," and might be mistaken as such. Given favorable weather the fungi develop into a greyish-white thick felt, with many little brown spore-cases in the felt patches, and the affected plant area has a very sickly and "dry" appearance.

## TREATMENT OF DISEASE.

The remedies tried here were as follows :—

## 1. Spraying with Calcium Sulphide.

This spray was prepared by boiling up together—Lime, 50 parts by weight ; Sulphur, 100 parts by weight ; Water, 500 parts by weight.

Applied by means of ordinary orchard spray pump.

## 2. Bordeaux Mixture.

3. Flowers of Sulphur—applied by means of dry spray, bellows, or pump.

## EFFECT OF TREATMENT.

None, as far as could be seen, though, no doubt, the fungicides applied had a checking influence on the disease, which most probably was treated too late to effectively arrest its progress. The appearance of the plants remained a "sickly" one for some time after application and then picked up again and made growth as far as the lack of rain would permit of.

In conclusion I might say that, in such seasons as we are now having and have experienced, a sharp lookout should be kept for appearance and checking of the disease, which is fairly common in England, whilst in California in 1877 as much as 500,000 acres of wheat were badly devastated by this particular mildew.

For those wishing to know more of the botanical nature and features of the fungus, the following books will be found more or less useful and enlightening :—

1. "Fungoid Diseases of Agricultural Plants"—  
(Erikson).
2. "Diseases of Field and Garden Crops"  
(Worthington Smith).
3. "Agricultural Botany"  
(Percival).  
—O.S.S.

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### "The War."

(By "Promotor").

The one and only fight we have had the pleasure of watching this year was between "Henshaw" and "Scaly." The origin was that "Henshaw" cast a

slur on "Scaly's" character. Whilst "Scaly" has the appearance of having come to light from a super bag, having large scales all over him, "Henshaw" has more the air of a musician than a pugilist. Unfortunately, a number of students were away, either in Town or on the Tennis Tour to Kapunda, so were unable to enjoy the entertainment. The first round opened by "Henshaw" delivering a round arm to "Scaly's" mole. "Scales" promptly retaliated with a smashing blow which "Henshaw" warded off with another to "Scaly's" mouth, which drew the first claret of the day. Both were very agile on their feet, and "Henshaw" was very clever with his foot work, but at the close of the round "Henshaw" got entangled in his opponent's scales, and the gong saved him. In the second round "Henshaw" again opened with a stinging blow to "Scaly's" ear. "Scaly," with much blowing and perspiring, delivered an uppercut to "Henshaw's" mouth. In the third round some fierce fighting took place. "Henshaw" was gradually wearing his opponent down, but "Scales" clinched to save himself, when the gong sounded and relieved the situation. The fourth round was the fiercest of the lot and both fought fiercely. This round lasted five minutes, and both were dead beat when the gong sounded, neither being the worse for the battle.



### Show Trip.

Of all the trips designed to be of educational use this is undoubtedly the one which should prove of best all round general value to the Roseworthy student, and although perhaps it is not of much use while we remain students, points picked up will come in useful later on.

It was with mingled feelings that we looked forward to the Show. The year being such an exceptional one was against agricultural pursuits in general, and we hardly expected to see quality or quantity in the exhibits; but on viewing the products one was struck by their quality which well demonstrated the methods of South Australian Agriculture.

In the foddery, surprising length was very noticeable, and plants showed strong healthy growth unaffected by drought.

The Show Ring commanded the most attention, and the parade of stock was a sight not easily forgotten, it being well up to the standard.

The Ladies' Jumping Event created much comment, as it was the first time it has occurred.

The Section Fours was not up to expectations, considering many of the competitors are volunteers for the front.

The College was fairly well represented this year, and although no horses were exhibited, in other branches we were to the front.

The following is a list of our prizes:—

First Prize—Jersey Bull (2 years), "Roseworthy's Prince."

First and Champion—Berkshire Sow, "Hammond's Heartsease."

Second Prize—Berkshire Sow, "Calypso."

First Prize—Berkshire Sow (under 1 year), "Cleop-tee."

SHEEP.—Southdown Ram (over 2½ years), 2nd, 3rd and 4th prize.

Southdown Ram (over 1½ and under 2½ years), 3rd and 4th prize.

Southdown Ram (under 1½ years), 3rd and 4th prize.

Southdown Ewe (over 2½ years), 3rd and 4th prize.

Southdown Ewe (over 1½ and under 2½ years), 1st and champion, 2nd and 3rd prize.

Southdown Ewe (1½ years or under), 2nd and 4th prize.



The most beneficial part of our show trip was on Thursday when Mr. Colebatch, who had kindly consented to take us around, showed us over the livestock and machinery.

The points he showed in the livestock should prove of unmeasurable value to us in our future calling as scientific agriculturists and the general information given on the machinery of latest type was fully appreciated by us all.

—R.A.K.



### **Pons Asinorum.**

It was of no avail. I had already twice explained to Jenkins that I was incapable of playing that ubiquitous game they call BRIDGE. However, he would persist, and eventually to my disgust I promised to go to the Bridge Party.

We, i.e., Jenkins and I, arrived there punctually at 6. Of course no one else had arrived. The only other person in sight was the old caretaker, who beamed on us in a most condescending manner. This irritated me.

The next few minutes were occupied in vainly trying to grasp some of the details of the game. Jenkins was most enthusiastic. I was profoundly apathetic. Gradually, my interest was aroused—people were arriving.

After a few preliminaries, which were quite unnecessary, the game commenced.

I found myself sitting opposite to an elderly dame, who had rather hawk-like features.

“Are you my partner?” I ventured to ask.

She looked at me with scorn. I returned the glance. I gathered up my cards, and gazed at them critically.

“Hearts!” declared my male opponent.

I smiled blandly.

“Your lead, partner!” This sudden remark coming from my partner roused me from my reverie.

“Oh, is it?” I replied reflectively. “Let me see. Will you have the ace of diamonds or the king of spades? I have also ——.”

"Whatever do you think you are doing? Don't tell everyone what is in your hand!"

"Certainly, madam, if you do not wish it."

To tell the truth I was nettled for being thus corrected.

However, I extracted a card from my hand and threw it into the centre of the table with an air of precision.

"That's our trick!"

"Oh yes, so it is."

With cat-like agility she gathered up the four cards and planted them down in front of me. At the end of the game I tried to remonstrate with her, but the bell put an end to our altercation.

The evening passed on without any further incident until the fifth game. I had just begun to congratulate myself upon my play. Suddenly I looked up. Jenkins, with a very suspicious smile playing at the corners of his mouth, was looking at me.

This was too much even for my courageous spirit. From that time onwards I committed every conceivable fault open to me. In one case my irate partner peremptorily ordered me to leave the table, and was only pacified after I won the next trick—through no fault of mine.

It was outside the dressing room when I next accosted Jenkins.

"Well, how did you get on, old chap?" he remarked.

"Pretty well, thanks!" (I was determined not to surrender).

"They are giving another one next week. Will—"

I didn't wait for the rest of the sentence.

—F.H.D.

## Old Collegians' Association.

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Owing to the combination of circumstances in the drought and the war, our Annual Dinner had to be foregone, and in its place an informal luncheon was held.

It appeared unlikely that there would be many Old Students in the City for Show week, and therefore it was considered advisable to cancel the dinner rather than court failure. Results proved that this course was justified, as only a comparatively small number of our members were in Town.

The luncheon proved enjoyable, and gave an opportunity for an hour of social intercourse. An attempt was made to secure the attendance of Old Students, then in camp at Morphettville, but without success.

Of these there were quite a number in the first contingent, and there are, I believe, several in the second. Those who went with the first were:—Major D. Fulton (second in command of Light Horse Brigade), E. W. Jones, P. D. and D. H. Killicoat, F. Treloar, G. E. Wells, A. C. Smith, W. B. Blue, M. Kay, S. C. Vohr, Goddard, Stewart, K. Hamilton, Fuller and Reed, the two latter left the College to join the force.

G. R. Webb, P. A. Tod and G. G. Masson are said to be in camp at the present time. H. Best went with the Tasmanians. To them all we extend hearty good wishes, we hope that they may win distinction in the field of action, and return safely to South Australia.

The unprecedented conditions of drought prevailing throughout the country at the present time are affecting very seriously those who are engaged in all classes of rural pursuits.

Many of our Old Students are experiencing considerable anxiety regarding their prospects of a crop, and we can only trust that the tension will be relieved very shortly by a good general rain and a return to conditions of prosperity. Fortunately, all are not similarly affected, for some of those in the other States are anticipating a very good harvest.

H. E. LAFFER,

Hon. Sec.

### Wanted to Know

When "Bendigo Jim" is going to get "appendicitis"?

If stable brooms, owing to their scarcity here, are made in Germany?

If Charlie answered the telephone?

If the "Young Man" and George are still keen on "Canaries"?

If "Tally" knows how many "rams" Bruce shored one morning?

Who had to walk from Freeling?

Who—pinched—my—blooming—bike?

Where the "small" hay forks have come from?

Where the cow carries her udder?



### Chaff.

Tarpy.

Uttah, Brad.

Now then Laad.

Owls.

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