


vinburne technical college



the open door

*1955*

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The cover of this issue was designed by Phillipa M. McQuillan, 4th year ART. The artist has very kindly supplied the commentary printed below.

"Since I feel symbolism to be a more penetrating form of expression than naturalistic representation, I have attempted to portray the various activities of the college in this manner. A slight distortion of familiar objects can accentuate their essential characteristics, and assist in the patternistic quality of the design. Similarly, an informal touch, such as the freely drawn bristles of the brush, provides interest and variety."

## THE OPEN DOOR



"CHEM. LAB."  
ANNE GORMAN (3rd year Art)

# THE Open Door

MAGAZINE OF THE SWINBURNE TECHNICAL COLLEGE

1955



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### *Editorial Committee:*

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*General Editor:* C. SAUNDERS.



## DIRECTOR'S REMARKS

This year one of our magazine illustrations is a colour print, reproduced for us by students of the Printing Trade School, from a painting by one of our Art Students of a scene in our Chemistry School.

All of which exemplifies co-operation; co-operation between two schools, and between two sections of our own school. What opportunities exist in such schools as ours! Think, for instance of the possibilities for dramatic production, with the dressmaking section supervising costumes; stage props knocked up by the woodworking department; scenery painted by the Art School; and lighting provided by the Engineers.

But perhaps you agree with a recent newspaper correspondent that technical schools should teach only technical subjects. Heaven forbid! For an individual interested in, and with a knowledge of, only his own trade or profession, is a dull companion and an unsatisfactory member of society. Fortunately these are rare; I have known but one — one too many.

Which is why I value extra curricular activities such as the preparation and publication of this magazine; why I encourage participation in sport; the establishment of clubs and hobby groups; the holding of properly conducted social gatherings involving intermingling of different sections of the college; the vigorous participation of students in their own affairs; and visits to the College by speakers knowledgeable on a variety of non-technical subjects.

For while senior technical education undoubtedly fulfils its function of smoothing the passage from general education to employment in industry, by providing the necessary fundamental scientific knowledge of skills, much of the social development which should go on simultaneously with technical training is necessarily dependent on those extra-curricular activities which many students tend to avoid as irrelevant to obtaining professional qualifications.

It is, I know unwise to risk examination failure by excessive participation in sport or student affairs; but even learning where to “draw the line” in such matters is valuable training for adult life, particularly for such students as hope eventually to become leaders in their professions.



# REVIEW OF 1955

## *Numbers*

Over 4,000 students are in attendance at the various classes conducted by the College, which is clearly one of the largest of the State's educational institutions.

## *Accommodation Difficulties*

As with most long-established educational institutions, we have had, and still are having, considerable accommodation difficulties. These would be much worse, however, without the sympathy and material assistance we are receiving from officers of the Education Department and the Public Works Department.

The difficulty of these days obtaining new buildings has led to the conversion of two existing shops on Burwood Road to serve, one as a geology room, the other as a soils' mechanics laboratory. In the Art School one section is being elaborately equipped for silk screen printing.

## *Senior Staff Changes*

Mr. S. M. Green has retired, after more than thirty years' service as instructor in our Machine Shop; Mr. Badcock, of our Humanities staff, transferred to Upwey High School; Mr. Calcutt resigned as instructor in our Art School. They have been replaced by Mr. G. Williams, Mr. P. F. Thompson, B.A., Dip.Ed., and Mr. J. M. Tourrier respectively. The inevitable expansion of the senior school has led to the appointment of Mr. F. L. Smyth to the Electrical Mechanics Department; Mr. M. W. Thomson to the Woodworking Department, and Mr. J. G. Davidson to the Engineering Machine Shop. Mrs. J. Kraitzer, LL.B., B.A., has now replaced Miss J. N. Kelly as Senior School Librarian. Miss Kelly resigned to go to England.

## *New Headmaster*

Following Mr. Cavill's retirement, Mr. L. C. C. Iversen was appointed Headmaster of the Boys' Junior School. Mr. Iversen has had a long and successful career in the Education Department. He was educated at the Melbourne Teachers' College and the Workingmen's College (now Royal Melbourne Technical College). During years of training he taught at Princes' Hill State School, Melbourne High School (Spring Street site), and West Melbourne Technical. For older readers each of these five institutions will revive nostalgic memories of major roles in the development of Victoria's educational system.

Mr. Iversen's first appointment was to Shepparton High. Other schools were: Wangaratta High, Warrnambool Technical, Bruns-

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wick Technical (17 years). He was Headmaster at Yallourn Technical during 1950-52, when there was rapid development in the school and district, and Headmaster of Sunshine Technical, 1953-4. Our new Head has taught many subjects during his career, but concentrated mainly on the art side; in extra-curricular activities he has given much service to sport and music (including orchestras).

Mr. Iversen is pleased with the co-operation he has received at Swinburne, and hopes that during his stay there will be considerable improvement in accommodation and amenities.

### *South-East Corner*

. In the Girls' School it has been a year of achievement — and of difficulties. Highlight in term three was the return of Miss Thomson, who, owing to ill-health, was on leave during the second term. During her absence reins of government were in the capable hands of Miss Scott. Though accommodation is still a major problem, use of two new prefabricated classrooms in John Street has eased the situation. New furniture has been acquired for the library, which is to be expanded next year. Present most-pressing need is more new books. A Prefects' Room — new and startling innovation by many standards — was opened early this year. Reports on all fronts are that the experiment is a success. Though proper playing fields and a gymnasium are still required, the girls continue their sporting successes. At Inter-School Competitions Swinburne won the Junior Swimming Cup, also the Softball Cup (the latter for the fifth year in succession). To the delight of many girls, a Fencing Club was formed during the second term. Full reports of this activity and others can be read in the girls' section.

### *New Syllabuses and Courses*

This year the first Diploma of Chemical Engineering under the revised syllabus is to be awarded. This College was the first technical institution in Victoria to issue a Diploma of Chemical Engineering and the course has been recently revised to bring it into line with modern ideas.

The recently introduced diploma courses in Commerce, Commercial Practice, and in Production Engineering are now fully established and soon we may expect successful students from these departments to be receiving diplomas. Commercial Certificates have already been awarded.

The full impact of certain changes in syllabus is beginning to be felt; the changes referred to are a revision of the civil, electrical and mechanical engineering diploma courses, the substitution of Technicians' Certificate Courses for the Engineering Certificate Courses, and the provision of certain exemptions for practical experience granted to students taking Applied Science Diploma Courses by part-time study.

### *Social Service Trainees*

Our Commercial School has been able to assist, by giving tuition in typing, shorthand, bookkeeping and similar subjects, in the rehabilitation of a number of young people who have suffered some mishap which prevents them from following a former, more active occupation. At present some 17 such students are in attendance here.

This commentary will solve for the curious the mystery of the regular arrival and departure of large Commonwealth cars. It is also a reminder of the modern community's larger and more humane conception of education.

### *Death of Mrs. Pridmore*

With the recent death of Mrs. Pridmore there passed from our midst one who, with the late Councillor Pridmore, for many years regularly attended our functions. They both gave generously in many ways to the College.

Their passing is a reminder to us all of the large contribution made to public life by those who seek no gain, but only the welfare of their fellows. In the full sense of the word, both were true citizens. We shall remember them!

### *New Activities*

During the year two new student activities were successfully introduced: an Apprentices' Social Club and a Student Christian Movement Group.

Large numbers of apprentices now receive day-time training at Swinburne, and the extension to them of some extra-curricular facilities is a most creditable performance on the part of the organisers. It is clearly a development with immense possibilities and in keeping with the spirit of the monumental British Education Act of 1944. Formation of the Student Christian Group is in keeping with the times, for pessimism generated by recent developments in the natural sciences has created vast interest in the ethical implications of modern living.

Because of the importance of these activities, special reporters were asked to contribute accounts, which are published elsewhere in this section of the magazine.

### *Parent-Teachers' Association*

The above has this year continued its successful meetings. As overseas educationists frequently criticise Australian schools for lack of this link between the home and the school, it is pleasing to record its operation at Swinburne. Functions this year included the following: Socials, Dances and a Discussion Group and Film Evening on Careers. Attendances up to two hundred people have been recorded. Donations received at these evenings are to assist

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purchase of library and gymnastic material for the boys' and girls' schools. A big fete, to be held in the School Hall, is being planned for 3rd December. Parents or teachers interested in joining are asked to communicate with the Honorary Treasurer, Mr. C. Tidd, 22 Victoria Grove, Hawthorn East, E.3.

## *Career Guidance*

A reference in the previous paragraph is a reminder of the continued success of career guidance courses. Initiated and strongly supported by the Director, Mr. A. Tylee, they are now accepted as a normal part of College service. Careers' Adviser, Mr. N. Niemann, has arranged many interesting talks from experts in different vocational fields. With some skilful organisation career activities are now neatly correlated with Social Study interests.

## *Flood Relief*

Early this year all Australia was shocked by the reports of disastrous floods in the Hunter Valley, N.S.W. Swinburne immediately responded to appeals for assistance, a sum of £250 being collected. The formal presentation of this amount took place in the Social Hall, where the representatives of the various sections of the College handed a cheque to the Mayor of Hawthorn, Cr. T. H. Jackett. A photograph of this notable event will be found among the illustrations. Interested readers will find other references to activities assisting public institutions in the Junior School divisions.

## *The Comic Habit*

In view of the publicity given to pictorial publications known as Comics, it is interesting to note the serious attempts made at Swinburne to promote wholesome reading habits. The Senior Library is always the proverbial hive of industry, being freely used by all sections of the school. However, very good work is also being done in the libraries of the junior schools. Of particular interest to parents — and recommended for their reading — is a special report by Mr. K. Ingram of developments this year in the boys' school. The report will be found in the junior boys' section.

## *For Service Rendered*

This year's review concludes with a tribute to Mr. Robertson and his office staff. We all depend on them to a very great extent, so our constant enquiries, wishes and demands must provide many irritating moments.

By some mysterious process our office colleagues surmount all difficulties. Courtesy and efficiency are accepted by us as their never-failing qualities. It involves nothing concrete, but this year's special award goes to Mr. Robertson's team.

## **ANNUAL DIPLOMA NIGHT**

The formal conferring of Diplomas this year was again held in the Hawthorn Town Hall, where Mr. G. Parsons, President of the College Council, made the main presentations.

Mr. O. E. Nilsson, Chief Inspector of Technical Schools and Chairman of the Apprenticeship Commission, presented the three State Bronze awards for outstanding craftsmanship.

The valedictory address was delivered by Mr. A. R. M. Johnson, B.E.E., B.Mech.E., B.Sc., Chairman, Melbourne Division, The Institution of Engineers, Australia, and Fairfield Mill Manager, Australian Paper Manufacturers Limited.

Mr. Johnson's address was greatly enjoyed, it being rated by all present as a model of its kind. The speaker's scientific background was unobtrusively present; also his wide experience in the practical and human problems of industry. In addition, in his assessment of the evening's significance, he took account of many simple but important factors in our every-day life. The incidental scholastic allusions were keenly appreciated by the academic sections of the audience. Elevated further by brilliant presentation and a charming platform style, it was indeed a memorable oration. In essence, Mr. Johnson's remarks contained something important for everybody, and demonstrated very clearly to the diploma graduates that the leader in the new managerial type of enterprise is a man of wide attainments, vision and integrity — responsible to employer, the community and himself. Very kindly Mr. Johnson acceded to the College's request for his notes, on which the summary below is based.

### **VALEDICTORY ADDRESS TO SWINBURNE DIPLOMA HOLDERS**

Many of you will remember the visit to Australia a few years ago of that fine English comedian Tommy Trinder. He had a very happy turn of wit and a fine appreciation of the need to make people happy. He introduced many of his shows while in Australia with the expression "Oh you lucky people." When you remember that before coming to Australia he had been in war devastated Europe, and came from the United Kingdom with its food and clothing rationing, and all the difficulties of recovering from a major war, it is not much wonder he felt that we Australians are lucky people. And we are a lucky, fortunate people. We have a great country, great in size, great in resources, great in opportunities, a climate

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superior to most in the world, a population without racial problems, and on the whole, a high moral standard.

We have never suffered the ravages of war as so many countries have.

Is it any wonder that Tommy Trinder thought us lucky and fortunate people?

I would like to stress four particular reasons why you are lucky, fortunate people.

1. The first and most obvious reason is that you have passed your examinations and received your diplomas.

You have reached a goal which you set yourselves.

Now that you have achieved this particular and important goal, do not forget that there are other goals before you. Think for one moment of the strides which have taken place in the scientific world in the last 50 years.

I was about to add also in the artistic world, but whether or not those strides have been backwards or forwards, I am not competent to judge, though there are very vocal protagonists on both sides.

However, in the scientific and engineering fields, we have seen radio, nuclear power, conquest of the air, television, harnessing of great waterways, as in our own Murray River, at Eildon, and in the Snowy Mountains and Kiewa projects, and in a thousand and one other ways.

What does this indicate in the next 50 years, that is, during your life-time?

It would be a brave man who would predict those developments, but you who have the academic background can, if you so desire, be in the forefront of these developments. But you can only be in the van if you continue your studies so that you keep abreast of technical changes and the social changes which are going on almost as fast as the technical ones.

Francis Bacon, that great philosopher and thinker of Elizabethan times, said: "Crafty men condemn studies; simple men admire them, and wise men use them".

To continue with your studies and as wise men to use that knowledge, is a goal worthy of your greatest effort.

2. Now the second reason why you are lucky people. The reason can be given in one word "parents." No doubt they are here tonight to see you receive your diplomas. For them it is a great day because they have made many sacrifices on your behalf.

The most obvious of these is, of course, the financial sacrifice of paying for your studies, books, holidays, clothing, and so on, with the money they could have justifiably spent on themselves.

And they have made many other small sacrifices, such comparatively little things as being quiet so that you could work, perhaps

giving you a room of your own so that you could study undisturbed. They have worried about you, thought about you, made plans even when you were quite young, so that you would not be "dead-end kids."

Naturally and rightly they are proud of you, and I am sure you are proud of them. While your parents may not have the specific knowledge that you have — they cannot solve a differential equation which perhaps you can; they don't know what happens when toluene is chlorinated, perhaps they don't know the difference between a proton and an electron — but they are wise in many things not learnt at school. You remember Mark Twain's comment that when he was 14 he was amazed at the ignorance of his father, but when he was 20 he was likewise astounded at the amount the old man had learnt in 6 years.

Your parents are proud of you. Be worthy of their pride.

3. Now a third reason why Tommy Trinder's expression: "You lucky people" is, I think, applicable to you. You have shown by passing your examinations and doing the work necessary for receiving your diplomas, that you have brains, capacity and application above the average.

You have achieved a distinction which marks you out in your community, and believe it or not, like it or not, you are the "elite". Yours then is the responsibility to lead, to help the less fortunate members of the community, and to show them that brains and applications are man's greatest asset. Obviously this is not going to make life easy, but you did not embark on your course because it would be easy. You must accept the challenge of leadership. What does leadership involve?

Of course it involves lots and lots of things, but there are a few which I think are the most important.

The first is the leader must be prepared to serve.

With the vast developments in the material field, the world is tending to become more and more materialistic. In 1807, Wordsworth complained that in "getting and spending we lay waste our powers", and it is even truer today.

Christ said: "He that would be the chief, let him be as one who serves", and the idea of service in leadership is as true today as it was 2,000 years ago.

Another necessary attribute of leadership is the inquiring mind and critical faculty. The child has an inordinate capacity for inquiry, but often our social customs, rigidity of adult life and poor teaching methods, stultify the spirit of inquiry and the faculty of constructive criticism which develops from an inquiring mind. The man who has developed these two faculties does not jump to hasty

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conclusions. He does not take for granted that what he is told is the truth, the whole truth and nothing but the truth.

But the leader must be prepared to take the risk of a wrong decision. The man who never decides until *all* the facts and opinions are available, never decides anything.

Often the difficult decision to make is when to make the decision — should I get more facts and opinions from other people, await more experimental evidence, all of which may take a long time, or is there enough evidence for me to be reasonably sure I am making the right decision?

The good leader takes the calculated risk

4. The fourth reason why you are lucky people is that life is before you.

In earlier times there were new lands and peoples to discover, and to spur man on to greater achievement, but now the emphasis has changed to the scientific world, and what a vast field is there. From the smallest virus which can hardly be resolved even by the electron microscope, to space travel taking us to planets, and even the stars; the field is almost unlimited, and assuming we do not annihilate ourselves with atomic bombs and bacteriological warfare, the sky is in a truly literal way, the limit.

In fewer and fewer cases will one man make a brilliant discovery. We will add to human knowledge by many men each taking a small step into the unknown. This means team work of the highest order, and team work is vital, not only in the scientific world, but in all aspects of human endeavour.

Your parents, your friends, and your College will watch you through the next exciting half century. May you give them "that just return of loyalty and service" so that they will always be proud of you, you lucky people.

## LIST OF AWARDS (1955)

### CERTIFICATES

#### ART

ADAM, John Shedden  
BERRY, Edward John  
CLARK, Eric Noel  
DOWSING, Patricia Ann  
DUNN, Pauline

#### *Commercial*

DOWNES, Joy Millicent

#### *Engineering — Civil*

#### *Engineering — Mechanical*

MILLANE, John Edmond

FERGUSON, Raymond George  
GORMAN, Anne Mary  
GRIFFIN, Ronald James Martin  
ZURBO, John Balint

LOWRY, Denise Patricia

DONELLY, Noel Maxwell

WAKEFIELD, Allan John

## DIPLOMAS

*Applied Chemistry*

HERES, Lionel Vivian  
MARLO-MONTEN, Jorma William  
MASSON, Kenneth William

*Chemical Engineering**Engineering — Civil*

ACOCKS, Henry Philip  
BARNES, Alex Alfred  
BENNEL, Peter Charles  
BENNETT, Royce Frederick  
CARBERRY, Edward Michael  
ELLIS, James Henry  
FITZGERALD, Arthur John  
HUGHES, Peter George  
KEMP, Charles Henry

*Engineering — Electrical*

CHEFFERS, Percy Theodore  
CHEN, Harold Fhatt Goon  
MARTIN, Arthur Edwin  
MASON, Edwin Murray

*Engineering — Mechanical*

ANDERSON, Donald Charles  
CHAMBERS, Geoffrey Irvine  
ELLIS, Douglas Mintern  
HOPKINSON, Jeffrey Beal  
MAY, William Robert

STELL, Ian Glen

WINTERTON, Charles Clifford

PETERSON, Graeme Fredrick

KEMPTON, Keith Douglas

LEE, Thomas Frank

LEO, John Alexander

McADAM, Peter Stuart

NORMAN, Herbert Henry

PAUL, John Graham

TERRILL, John Stanley

THACKRAY, William Andrew

THOMAS, William Nicholas

PRIDMORE, William Ernest

THOMAS, Brian Darvall

WESSELL, Ronald August

ROBERTS, Allan Arthur

THOMAS, Brian Darvall

TROTT, Norman Edward

WATKINS, David John

WEYMOUTH, John Harry

## SPORTS PRIZES

Award	Presented by
Athletics	College Council.
Baseball	College Council.
Cricket	College Council.
Football	College Council.
Swimming	College Council.
Tennis	College Council.

Won by
ROBBINS, Barry Horsley
KING, Phillip Henry
CALLOW, Philip Railton
PHILPOTT, Edward Leslie
RENNIE, John Charles
NICKELS, Ronald Eric

## CLASS PRIZES

## DIPLOMA SCHOOL

*Art*

1st Year	National Press Pty. Ltd.
2nd Year	National Press Pty. Ltd.
3rd Year	Fowlers Vacola Mfg. Co.
4th Year	College Council.

*Chemistry*

1st Year	Commonwealth Floor Pty. Ltd.
2nd Year	Commonwealth Floor Pty. Ltd.
3rd Year	C. Mortensen.
4th Year	College Council.

*Civil Engineering*

1st Year	General Motors-Holden's Ltd.
2nd Year	General Motors-Holden's Ltd.
3rd Year	General Motors-Holden's Ltd.
4th Year	College Council.

RABL, Julian Francis
DOWSING, Patricia Ann
McQUILLAN, Phillipa M.
TAYLOR, Miriam Louise

MITCHELL, Douglas Graham
LEARY, Bruce
ANDREOLA, Mario Gino
GIBSON, Ian Hampson

HOLDING, Edward John
FOX, Bruce Malcolm
BARRY, Edward Bruce
KEMP, Brian Trevor

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### *Commercial*

1st Year Sands & McDougall Pty. Ltd.  
2nd Year Kalamazoo (Aust.) Ltd.  
3rd Year Fowlers Vacola Mfg. Co.

### *Electrical Engineering*

1st Year F. L. Cook & Williams Pty. Ltd.  
2nd Year F. L. Cook & Williams Pty. Ltd.  
3rd Year H. Rowe & Co. Pty. Ltd.  
4th Year College Council.

### *Mechanical Engineering*

1st Year Moore Crane & Engineering Co.  
2nd Year Moore Crane & Engineering Co.  
3rd Year Moore Crane & Engineering Co.  
4th Year College Council.

PRASERTSUKH, Chromsri  
LOWRY, Denise Patricia  
MILLARD, Alison Jean

BEANLAND, David George  
LEDIN, Frederick William  
DOWER, Geoffrey Thomas  
PRIDMORE, William Ernest

DRAGE, Rex  
STEWART, Neil Irwin  
KING, Phillip Henry  
ROSS, William Owens

## SPECIAL PRIZES

### *Civil Engineering*

Institution of Engineers (Aust.)

WONG, Michael Len Him  
TARDREW, John Ernest

### *English*

Marfleet & Weights Pty. Ltd.

SHERRING, James Coleman

### *Engineering Drawing*

Marfleet & Weights Pty. Ltd.

DOWSLEY, John

### *Mathematics*

Noyes Bros.

KEMP, Brian Trevor

### *Physics*

Noyes Bros.

ANDREOLA, Mario Gino

### *Machine Shop Practice*

1st Place McPherson's Ltd.

2nd Place McPherson's Ltd.

DESLER, Hans Jurgen  
KING, Phillip Henry

### *Outstanding Services as a Student*

Mr. and Mrs. H. R. Hone.

BALL, Graeme Matthew

### *Reserve Prize*

National Press Pty. Ltd.

DIXON, Shirley Joy

## TRADE SCHOOL OUTSTANDING CRAFTSMANSHIP

### *Carpentry and Joinery*

D. & J. Evans Pty. Ltd.

BOOTS, Cornelis  
(State Bronze Award Winner)

### *Electrical Mechanics*

Harry Tijou  
Love & Pollard

CURSON, Eric George  
(State Bronze Award Winner)

### *Engineering Machine Shop*

Wing Gauge & Instrument Co.

General Motors-Holden's Ltd.

BUBECK, Karl Robert  
(State Bronze Award Winner)  
CRUICKSHANK, Owen J.  
(Hon. Mention, State Award)

### *Plumbing*

College Council

YATES, John Edward

## CLASS PRIZES

### *Cabinet Making*

1st Year Titan Manufacturing Co.  
Thomas C. Browne & Co. Pty. Ltd.

HUNT, David Maxwell

AWARD WINNERS IN CRAFTSMANSHIP APPRENTICESHIP  
COMMISSION OF VICTORIA



CORNELIUS BOOTS  
State Bronze Award:  
Carpentry & Joinery.



KARL ROBERT BUBECK  
State Bronze Award:  
Engineering Machine Shop.



ERIC GEORGE CURSON  
State Bronze Award Winner:  
Electrical Mechanics.



OWEN CRUICKSHANK  
Honorable Mention, State Award:  
Engineering Machine Shop.

2nd Year	Roch's Furniture Galleries Thos. Warburton Pty. Ltd.	HANSEN, Geoffrey Charles
<i>Carpentry and Joinery</i>		
1st Year	Prentice Builders Pty. Ltd.	WHITLOCK, Keith N.
2nd Year	W. O. Longmuir & Sons Pty. Ltd.	YOUNG, Terence Ross
3rd Year	R.M.S. Shop Fitters.	WOOLLEY, John Leonard
4th Year	D. & J. Evans Pty. Ltd.	LENNARD, Kevin Mills
<i>Carpentry</i>		
4th Year	D. & J. Evans Pty. Ltd.	BOOTS, Cornelis
<i>Joinery</i>		
Best over 4- year Course	College Council.	McKERN, John Tebbutt
<i>Electrical Mechanics</i>		
1st Year	Ivan R. McDonald, C. E. Cornish and E. A. Quinton.	DEWAR, Norman Kenneth
2nd Year	Lund Bros.	McKIERNAN, Richard Peter
3rd Year	Siemen's (Aust.) Pty. Ltd.	
4th Year	Turner Manufacturing Co. Ltd. Walkers Stores Pty. Ltd.	CORNISH, Charles Alan
5th Year	Wm. Morrison & Co. L. G. Hughes.	McGOWN, Ian Maxwell
Best over 5- year Course	Electrical & Radio Federation. College Council.	CURNOW, Kenneth Leslie
<i>Engineering Machine Shop</i>		
1st Year	T. Main & Sons Pty. Ltd. Angus G. Reid	CONNOR, Ronald Thomas
2nd Year	Wilson Bros. Pty. Ltd.	McMAHON, Laurence James
3rd Year	Vickers Ruwolt Pty. Ltd.	ARNDT, Guenter
4th Year	A. H. McDonald & Co. Pty. Ltd. Tadco (Aust.) Pty. Ltd.	TODD, Graham George
Best over 4- year Course	Jaques Bros. Ltd.	WILSON, David
<i>Oxy-Welding</i>		
	C.I.G. (Victoria) Pty. Ltd.	WILSON, David
<i>Plumbing</i>		
1st Year	John McIlwraith Industries Ltd.	HADLEY, Wilfrid Russell
2nd Year	John McIlwraith Industries Ltd.	DARVELL, James Ronald
3rd Year	Gardner & Naylor Pty. Ltd.	VITRUE, Barry James
Best over 3- year Course	College Council.	BROWN, Coling George
		YATES, John Edward

## OLD SWINBURNIANS' MEDALS

<i>Scholarship</i>		
Chemistry	Old Swinburnians' Association	STELL, Ian Glen
Engineering	Old Swinburnians' Association	BENNETT, Royce Frederick
<i>Athletics</i>		
Engineering	Old Swinburnians' Association	PHILPOTT, Edward Leslie

## PERSONAL PAGES

### PROFESSOR WORNER

Swinburnians — past and present — have been very interested to hear of Professor Worner's acceptance of the position as director of the new Newcastle research division of Broken Hill Pty. Ltd. The appointment is part of a long-range plan to maintain and extend the already high Australian reputation in the world of iron and steel.

Professor Worner, who was Professor of Metallurgy at Melbourne University, was also, from June, 1951, one of the Governor-in-Council's representatives on the Swinburne College Council. An active member of great practical value to this College, Professor Worner also showed his interest in technical education generally by associations with the Executive of the Technical Schools' Association. This link between the University and the Technical Colleges — a link dependent on the enthusiasm and understanding of the persons concerned — is imperative for maintenance of standards.

In this respect Professor Worner was the ideal man. A product of Bendigo School of Mines, he took originally the course for a Diploma in Applied Chemistry. His ultimate award of a Doctor of Science Degree is an interesting indication of the potential field for technical college students. At the University, Professor Worner built up a very effective school, which played an important part in the Faculty of Engineering. He was also known for his great help to overseas students, who always found him a willing and sympathetic adviser.

The very best wishes of the College are extended to Professor Worner on his appointment; his outstanding services have been deeply appreciated by all, and Swinburnians will follow his future career with considerable interest.

### CYRIL CAVILL

It was with real sorrow that students early this year faced the impending retirement of Cyril Cavill. In many ways he was not our idea of a teacher at the end of his career. Perhaps this was due to his deep understanding of boys, his tendency to gay wit and youthful humour at appropriate moments. But the records were right. Mr. Cavill was formally farewelled; his days at Swinburne are memories — but still very real ones.

Mr. Cavill came to Swinburne in 1949, being Senior Master in English and Social Studies. His were always lessons with a difference. He had a wide and deep knowledge of his own subjects, and

of others too. Only a few knew his homeland was England, for he was as Australian in outlook as any of the other teachers.

It was always easy to learn from Mr. Cavill's lessons. His manner immediately commanded respect and attention. He was, of course, a trained teacher from the beginning, and a life-time of active classwork had given him a psychological insight into students' minds, the additional subtleties of instruction.

Mr. Cavill was born at Sheffield, England, in 1890. He was educated at the Sheffield Central Secondary School, and matriculated in 1908. After three years at the University of Sheffield, he graduated Bachelor of Arts in 1911.

Adopting teaching as a profession, Mr. Cavill taught in various types of English schools, including the Central Commercial College and the Technical School of Art. During the years 1916-18, he was in a unit of the Royal Garrison Artillery, saw active service at Ypres and Armentieres, and was commissioned in the field.

In 1925 Mr. Cavill—for his family's sake—came to Australia, his first appointment being to Stawell High School, where he taught during the years 1926-8. His other teaching posts were as follows: Castlemaine Technical School, 1928-34; Footscray Technical School, 1935-38; Box Hill High School, 1939-40; South Melbourne Technical School, 1941-48; Swinburne Technical College, 1949-55.

Always modest and without worldly ambition, Cavill tended to stay where he found interests, where he could give most effective service. Had he sought to do so, he might easily have taken charge of a large metropolitan school years before. But what he loved best of all was just teaching.

Being naturally equipped to lead and direct, his taking charge of the Junior School was appropriate and very pleasing to his many friends—above all, to his colleagues. And Mr. Cavill's record in this sphere of activity is now a matter of school history. Gradual but immediately effective and far-reaching changes in organisation, the inculcation of tone and spirit, wise encouragement of students and staff, and skilful liaison with other college departments — these were just part of the personal fabric he wove. Even addresses at school assemblies will be remembered for his presence, voice and skill with words and ideas.

A man of great inner resources, Mr. Cavill was essentially an artist — to his fingertips. The walls of Swinburne and the files of the Social Studies' Department bear witness to his skill as a painter. His landscapes — eagerly sought by friends — testify to love of Australia, his sense of its warm, bright colours; the historical drawings he so easily produced were scholarly and vivid. As a pianist and singer, he made Musical Appreciation a real thing for

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the boys. Having regard to all the fields in which Mr. Cavill spoke with authority, the subjects in which he could instruct, he was just about a school in himself.

The Headmaster was always busy at school; but at home he did not spare himself either. The wide range of his knowledge gave him many interests. Reading was always a favourite; but few knew of his gardening pursuits, the many beautiful blooms he grew. He excelled at chess and bridge. Height, reach and natural skill made him a difficult table-tennis opponent. His services as an organist and pianist were always freely given; he conducted many choirs and organised several choral societies.

In a life of such activity, Mr. Cavill had little time to acquire dislikes, and so they were very few: cruelty, bad manners, cock-suredness and long speeches.

All teachers must retire some day; but how pleasant it is to tell of one who left nothing but regret for his going. The truth is, of course, that most of us meet only a few Cyril Cavill's in a lifetime of teaching and learning.

Swinburnians, for themselves, and on behalf of thousands of others he taught and influenced, extend to him wishes for the best of luck in the future and for many happy days in his Dandenongs retreat.

## BRIAN CALCUTT

It was with considerable regret that we said goodbye this year to Mr. Brian Calcutt, whom we were most unfortunate and most unwilling to lose from the teaching staff of our College.

This regret, however, is equally shared by Mr. Calcutt himself, for he has been for the last twenty-nine years a most stimulating and energetic member of our art staff, and prior to that a student himself in our art school. Such associations as his are deep, and hard to break. Thus, we shall all miss him very much.

As a talented designer and a recognised authority on the art and practice of lettering, he provided a strong and healthy impulse toward the teaching and example of good contemporary design in graphic art, to which he himself contributed much work of a high standard, especially in the field of commercial package design and display.

He is well known in this country as a calligrapher of high distinction. Examples of his work include Memorial Books written for the Royal Australian Navy, the E.S. & A. Bank, many illuminated addresses for public and private bodies, an outstanding one being that prepared for Her Majesty, Queen Elizabeth, during the recent visit to Australia.

Brian Calcutt also painted a number of water-colour landscapes of a quality and character provocative enough for us to hope that he will be able to devote very much more of his future time to his distinctive talent in this direction, and to enjoy as much success in this field as in his other activities.

Our College is proud to possess records and examples of his works, among them being our own hand-written College Diplomas, and many designs for College publications.

Over the years, Mr. Calcutt devoted much of his own time to College affairs, and the quiet and sincere influence which he so consistently exerted was deeply felt and appreciated by all who knew and worked with him. We are confident that his influence will continue long after his departure.

It is also interesting to record that apart from his professional abilities he is a first-rate golfer. Among other trophies, he has won the award in the Victorian Technical Colleges' Golf Championship on four occasions. At Melbourne Grammar, he was an outstanding schoolboy cricketer and tennis player. He also represented Swinburne College in cricket, football, tennis and athletics during his student days at the art school.

We feel that such men as Brian Calcutt are not easily met; thus, to part with them is never easy. Our College has been fortunate to possess his services for a number of years. Therefore, we thank him sincerely for all his services, his many acts of kindness, his encouragement and friendship over many years.

Finally, it is sincerely hoped that his departure from us will not entirely sever his associations with Swinburne Technical College. We wish him all happiness and continued success in the future.

R.J.

#### COL. BREWER

Mr. C. W. Brewer, who is in charge of Metallurgy at the College, recently completed a research project which has extended over five years. The work began when he was Senior Research Metallurgist at Australian Paper Manufacturers Ltd., and is connected with the corrosion of mild and stainless steel in pulp mill liquors. When he came to Swinburne two and a half years ago, Mr. Brewer continued to work on the research, using his spare time to check experiments and other details at the Chemistry School of the College.

It is understood that examiners at the School of Metallurgy, University of Melbourne, have passed the thesis for the Degree of Master of Science.

B.F.

## JAMES MELDRUM

The many friends and admirers of James Meldrum, who taught art classes in both Senior and Junior Schools in 1954 and 1955, were very pleased to hear early this year that he had been granted a scholarship by the Italian Government.

Under the terms of the scholarship he will have the opportunity of studying the Italian language at the University of Perugia, a special university for foreigners. Although the scholarship is connected with art, it is considered by the Italian authorities that a good knowledge of their language is an essential pre-requisite for other studies. At the end of the first year Mr. Meldrum will be eligible for a two years' scholarship to paint in Italy.

Fares to and from Italy are paid by the Italian Government, and accommodation provided at special students' hostels. Altogether the stay abroad will extend to approximately four years, as it is proposed to teach both Art and English abroad after the terms of the scholarship have been fulfilled.

James Meldrum, a product of the Swinburne Art School, and winner of the Old Swinburnians' Medal for Art, is regarded by his fellow artists as a young man with considerable talent and a very bright future. Last year he held a very successful exhibition in Melbourne. When previously abroad he exhibited at the "Gimpel Fels" galleries in Bond Street, London, two of his works being accepted for the 1951 Exhibition of British Abstract Art.

Friends wishing to write are advised to address their letters as follows:

Il Signore James Meldrum,  
Universita per Stranieri,  
a Perugia,  
Palloza Gallanga,  
Forte-braccia,  
Italy.

## MARGARET MADDER

Margaret Madder, second-year Art student, and a product of the Swinburne Junior Girls' School, was this year's winner of the coveted title of Miss Teenager. Margaret was Miss Mobilgas. Prizes included a holiday in Hollywood, a special wardrobe, £250 spending money and a number of valuable gifts. When the results were announced at a special ceremony at the Melbourne Town Hall, Margaret, a little overcome by her unexpected victory and all the resulting excitement, shed a tear or two on a nearby male shoulder — the shoulder of the Governor, Sir Dallas Brooks. In the blare of publicity that followed Margaret impressed all by her dignified

and balanced observations to newspaper reporters. One very nostalgic remark — her disappointment that some of the prizes were not paints and palettes — had an interesting sequel. Next morning there arrived at her home a bewildering variety of paints and brushes — gifts from the city's best known art firm. Highlights of the three-week stay in California included the following: A visit to M.G.M.; meeting Stewart Granger, Frank Sinatra, Dolores Grey, Vic Damone and Syd Charisse; an evening at the Hollywood Bowl, where Andre Kostelanetz and his orchestra were guest performers; a tour of Disneyland, Walt Disney's fabulous land of makebelieve; several appearances on TV.

Margaret has returned to Swinburne, and will continue her Art Course, to qualify as an Art Teacher.

### OUTSTANDING STUDENTS

Mr. N. Swansson, who completed his diploma course in 1952 and in 1953 entered the third year of the mechanical degree course at Melbourne University with an Oscar Weigel scholarship, has now completed his degree with first class honours, and, having been awarded a Rolls Royce scholarship, has left for England to take up a cadetship with that company. Mr. Swansson came to us from Carey Grammar School.

Two other ex-diploma students to complete engineering degree courses last year were Messrs. D. A. Roach and T. H. T. Wilson. Successes in the third year of such courses were obtained by Messrs. H. B. Beattie, L. N. Cunningham, K. V. Nicholls and I. C. O'Neill; while Mr. W. O. Ross, the outstanding fourth year mechanical engineering diploma student of last year, and one of our ex-junior school students, has this year entered the University at the third year stage.

Mr. Ian H. Gibson, who completed his Chemistry Diploma Course last year, has gained, from the Royal Australian Chemical Institute, the award for the best fourth year student in Victorian Technical Schools. Mr. Gibson came to us from Caulfield Technical School. He has now joined Messrs. David Kepert and Ralph Laby in science degree courses at the Melbourne University.

Three bronze awards each for the best piece of craftsmanship produced in the appropriate trade in Victoria, together with one Honourable Mention, have been won by apprentices training at this College. In Carpentry and Joinery the successful apprentice was Cornelis Boots, with an open newel staircase. Mr. Boots came to us from Holland. In Electrical Mechanics Eric Curson, ex-South Melbourne Technical College, won the award with a testing panel, while Karl Bubeck, from Germany, produced an outstanding drill

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press. Owen J. Cruickshank, ex-Ivanhoe Grammar School, received an Honourable Mention for a similar press. The pieces of craftsmanship for which the bronze awards were made were displayed in the entrance to the Hawthorn Town Hall on the Annual Diploma Night.

## **STUDENT ACTIVITIES**

### **SENIOR STUDENTS' REPRESENTATIVE COUNCIL**

This year the S.R.C. have been able, through the *monthly* meetings of the departments, to bring to the notice of the senior students the social functions organised during the year. Three dances and a hike have been held, all of which were successful from a social point of view. Through the students, the S.R.C. have been informed of various improvements needed in the senior school which have been approved by our Director, Mr. Tylee. The Common Room will at last be made available for our use as soon as it has been properly fitted out and the lino laid.

The Council takes this opportunity of thanking Mr. Tylee and Mr. Robertson for their co-operation throughout the year.

The members of the Council are as follows: G. Ball, R. Nickels, G. Guy, T. Holding, W. Hodgkins, K. Thornton, D. Standish, R. Griffin, F. Mason, L. Davidson, P. Owen, S. Dixon.

S.J.D.

### **THE APPRENTICES' SOCIAL CLUB**

The Apprentices' Social Club was formed at the suggestion of Mr. Laurence, head of the Plumbing Department, in an effort to bring together apprentices in some school activity other than classes, and to obtain better conditions for the apprentices in the College. Great difficulties had to be overcome, because, although apprentices form a major part of the College students, the boys do not meet each other, as each group comes to classes on various days.

A committee was formed with Mr. Laurence and two elected representatives from each trade taken from the third year course. Last year the committee met in the "Ark". Two dances were organised and also two picture nights and a smoke night in the Hawthorn Town Hall towards the end of the year. The president of the College Council, together with the director and vice-principal, and also Mr. Tatchell from the Education Department, were present. This function was well attended and proved a great success, and is likely to be an annual feature. Preliminary arrangements have begun for this year's smoke night.

This year's committee consists of Len Manning and Len Pacey (Plumbers), Peter Cohen and Wally Broomhead (Engineers), Ron Wilson and Terry Young (Carpenters), and Peter McKiernan and

David Taylor (Electricians). We meet each alternate Thursday in the Plumbers' lecture room. Unfortunately, owing to varying timetables, we miss the carpenters during the middle term.

Our first dance on Friday, 13th May, this year, proved a big success. Our second dance on Friday, 29th July, was not as successful as the first, but we have high hopes of doing better next time. A picnic was also arranged for Sunday, 7th August, at Ferny Creek football oval.

Each function is run at a minimum price, but as the club has no funds, it causes some anxiety to Mr. Laurence regarding finance. It is hoped that we can make a profit on future functions to cover expenses on each forthcoming function.

All the committee wish to thank Mr. Laurence for his time and help with arrangements, and selling of tickets to the various apprentice groups which attend on different days.

W. BROOMHEAD.

### S. C. M.

Does S.C.M. mean anything to you? Well, it started to mean something at Swinburne this year and stands for the Student Christian Movement. A branch of the Movement was formed among senior school students in March.

The Australian Student Christian Movement is the Australian member of the World's Student Christian Federation, which has been at work in schools, colleges and universities for over sixty years. The S.C.M. welcomes into its fellowship all students, teachers and others who seek God and the truth by which to live, whether they are committed to Christian discipleship or not.

Through S.C.M. we endeavour to—

Discover what the Christian faith is.

Find out where the Church comes in.

Learn what the Bible is really saying.

Relate our studies to our faith.

Explore the Christian way of thought and life.

During the year we have enjoyed fellowship together in friendship, study and discussion, in service and recreation. We screened the film "Beyond Our Own" in May and have had several visiting speakers along to our meetings. These include the first full-time technical school chaplain in Victoria and a theology student, who gave an illustrated talk on the First Australian Conference of Christian Youth.

Four of our members joined in a week-end conference with members of other college branches and had a very lively time. More such conferences are to be planned.

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The S.C.M.'s regular meetings, at which we alternate visiting speakers with study and discussion, are held at lunch time every Thursday (except at examination times), and usually in the Chemistry School.

We invite you to join us in the S.C.M.'s activities.

D.S.R.

### SENIOR SPORT REPORT

Swinburne had another successful year. Six teams won two premierships, three second placings and one third.

#### *Athletics:*

The combined carnival this year was held at Geelong and proved a very successful meeting. Swinburne staged a close contest with Geelong, the latter being eventual winners because of their strong relay teams. Outstanding performer for Swinburne was "Doc" Robbins, winner of three events. In the high jump he smashed the existing 5 ft. 4½ in. record with a remarkable leap of 5 ft. 8 in. Other event winners were: K. Hickey (long jump), K. Thornton (High jump) and J. Randles (long jump).

#### *Baseball:*

Swinburne lost the baseball premiership by a margin so small as to warrant inclusion as a Ripley item. With time running out Caulfield led 5 runs to 4. Swinburne came to bat and quickly added two runs, but had to get out themselves and dismiss Caulfield scoreless to win the game. A battle of tactics developed, and with two Caulfield batters out and two strikes on the batter, one more stroke only needed and time was called. One pitched ball could have won the game. To add to the tragedy, Swinburne played one man short. Phil King, Peter Appleby, Dave Beanland and Bruce Barry gave sterling service throughout the season. All other games were won convincingly.

#### *Cricket:*

This year's team added to the proud record of previous years and finished the season undefeated and premiers. For three years now Swinburne has been undefeated at cricket. Star performers for 1955 were Phil Callow, John Helmer and Captain Ted Philpott.

#### *Football:*

So near and yet so far . . . This year Swinburne fielded its finest team in years. Playing with skill and determination it won four games in succession and looked odds on for the premiership. Then came disaster. Ray Moonie (full forward), Frank Bassett (centre half forward) and Bill Thompson (centre half back) all

suffered leg injuries before the vital game at Geelong and could not play. The match was even then very closely contested, and only Swinburne's failure to kick goals lost the game. Captain Ted Philpott, John Uren, John Helmer, Neil Stewart and Neil Chesterfield deserve a mention for their consistency and sterling work throughout the season. Many others gave good, sometimes brilliant service.

*Swimming:*

This year's carnival at Brunswick was won by Geelong with Melbourne second and Swinburne third. Best performers were: John Rennie (winner of two events), Frank Bassett, Ian Denehy, Ron Griffin and Bruce Hocking.

*Tennis:*

Swinburne's already strong team became invincible with the return of Bill Hodgins, who won the school championship for 1955. Captain Ron Nickels did his usual good job with the team, and leaves behind him a record that will stand for many years. He captained the school team for three years, during which time no defeat was suffered.

*Conclusion:*

I record my thanks to the fine body of students who have formed this year's teams, and the small band of loyal supporters for their splendid service throughout the year. Swinburne's reputation for sportsmanship and sporting skill have been maintained and enhanced by your efforts.

K. LOVITT,  
(Senior Sportsmaster).





## SENIOR SCHOOLS' SECTION

### ART, CHEMISTRY, COMMERCE, ENGINEERING

#### BUSHRANGERS ON ST. KILDA ROAD

Today, St. Kilda Road is famous throughout the world; but in 1853 it was only a bush track. On the morning of March 18, of that year, Edward Ritter, a citizen of the small suburb of St. Kilda, accompanied by his brother-in-law, set out in a chaise for his offices in Elizabeth Street. Mr. Ritter was a gold buyer; hence, the story that follows.

Following his usual custom, Ritter stopped to water his horse at a swamp approximately a quarter of a mile south of Princes Bridge. That morning six men sprang suddenly from the undergrowth. The horse's head was seized; the two startled gentlemen in the chaise were covered with pistols and searched. The previous day all banks had been closed, because of the traditional celebrations for St. Patrick's Day, and the bushrangers were acting on the belief that Mr. Ritter would be carrying gold he had bought from the diggers two days previously. No gold was found, and the victims' pockets contained fourteen and sixpence only. Mr. Ritter and his companion — a Mr. Alexander — became alarmed. The thugs of the day often treated their victims severely, particularly when the gains were poor. Some unfortunate people had received severe beatings; in some cases, the robbers did not hesitate to murder.

Suddenly, Ritter flogged the horse to make it rear; at the same time, he used his whip to upset the man holding the horse's head. These moves were immediately successful — the chaise moved forward. Simultaneously, four of the bushrangers fired at Mr. Ritter and Mr. Alexander. The weapons used then were not always accurate. One ball entered Mr. Ritter's shin; the others lodged harmlessly in his clothes. But further whipping increased the horse's speed; soon the chaise rumbled over Princess Bridge; and the scared occupants were safe in the streets of the city.

The hold-up featured prominently in the papers of the day. Some editorials appeared criticising the police; it was said that they ought to spend less time in city streets and more patrolling the roads from St. Kilda, Richmond and Prahran. Nevertheless, official action was prompt. The same night the police raided a house in Little Bourke Street, and made a number of arrests. Ritter and Alexander were able to identify four of the men, who were later convicted of highway robbery. There was one other immediate effect: the Central Road Board decided to have St. Kilda Road surveyed and the trees removed.

This was neither the first nor the last incident of its kind. On October 16th, 1852, four bushrangers appeared on the same road and robbed passing travellers. Two of those responsible, Williams and Flannagan, were old convicts from Van Dieman's Land. After the victims were robbed they were taken into the scrub, where two other men stood guard over them with guns. One traveller was relieved of £46, and another lost £23.

Later in the afternoon a Mr. Moody was challenged, but he ignored shots, put his spurs to his horse and galloped off. This alarmed the four men, who quickly disappeared. But they were not disguised, and, working from descriptions supplied by the victims, the detectives soon brought them to justice. There were many similar attacks on St. Kilda Road, the last recorded being in December, 1859. The intended victim, Professor Irving, of the Melbourne University, outwitted the bushrangers and rode to safety.

Bushrangers were noted on the outskirts of Melbourne in the early 'forties, but with the discovery of gold in 1851 there was a marked increase in crime. An influx of conditionally pardoned men from Tasmania was held to be largely responsible. In 1853 some 282 inquests were conducted in Melbourne, and nearly one-third concerned strangers about whose fate little could be discovered. Crime grew with population increase. The population of Victoria increased from 76,000 to 364,000 between 1850-55. Men of many nations walked the streets, as ever-increasing numbers of windjammers unloaded passengers from all quarters of the globe. One visitor to Melbourne described it as a city where "oaths, execrations and obscenity grate upon your ear". Poor street lighting — a few struggling oil lamps in the more frequented streets — contributed to crime at night.

Writers of the day have left vivid pictures of the wild excitement of the gold era. Some couples, wishing to preserve the gaiety of the wedding celebration, were married as many as three times. One enterprising keeper of a Swanston Street hotel set up a room

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with gaudy draperies and many mirrors, calling it "the digger's bridal suite." It exercised a special spell, despite the charge of £20 a day, and was eagerly sought; in fact, some of the belles of the day stipulated so many days' sojourn before accepting a proposal of marriage. For reasons unknown, quite a few of these brides disappeared soon after the honeymoon. Other diggers consumed huge quantities of alcohol. Bar counters were sometimes washed down with expensive wines as a preliminary to ordering "free drinks for the crowd." Sometimes a generous visitor swept all the glasses off the counter with his whip to make the bill worth paying.

On the practical side of life, there were many difficulties in the early 'fifties. There was a serious shortage of drinking water; all the licensed carriers went to the diggings, and some of Melbourne's best citizens had to draw their own supplies from the Yarra. Equally marked was the effect of doubled living costs. The civil servants and bank clerks, despite increases in salary, were badly hit, and remained poverty-stricken for years.

Strange stories, often authentic, reached their ears of successful diggers lighting their pipes with £5 notes and eating them between slices of bread.

Such was the background to the experiences of Mr. Ritter and Mr. Alexander on St. Kilda Road. It was certainly one of Melbourne's most confusing periods. In the years that followed this approach to the city was steadily improved. Today there are no visible marks of the adventurous past. Mansions, monuments and ornamental plantations watch silently a new confusion — the confusion of ever-increasing motor-traffic.

"G.K."

[The work of a contemporary Swinburnian, the above article first appeared in the Literary Supplement of the Melbourne "Age." Thanks are extended to the proprietors of the "Age" for permission to reprint.]

## ART OF THE BLACKSMITH

In blacksmithing, which stretches back as an art thousands of years, no period was richer in inventive fancy than the Middle Ages. Each European nation vied with the other in producing wonders of art. The anvil and hammer were ever at work, and the glow of the forge with its stream of upward sparks seemed to impart life and energy to the inert mass of metal submitted to its fierce heat. At no other time were the technicalities of iron so thoroughly understood, the products so perfect.

The common articles of domestic use shared the influence alike with the more costly work designed for the service of religion.

The homely "gridiron" and pothook could compare with the elaborate hinge of the church door, or the grill which screened the tomb or chapel. Even a nail head was a thing of beauty. There are, however, few domestic specimens left, as ordinary wear and tear, frequent change of ownership, and the intrinsic value of the metal contributed to their disappearance. In ecclesiastical metal work, of course, the specimens are more numerous and more perfectly preserved; their connection with the sacred edifices they adorned proved their salvation.

In the matter of armour and weapons, there is a long history. The Roman soldiers wore chain mail, and innumerable instances are found on sculptured slabs of this use, and in London. At Eastcheap and Moor Lane, actual specimens of this ringed armour occurred, in which the rings did not interlace as in later specimens, but were welded together at the edge. From this time there is authentic evidence of its constant use.

The Anglo-Saxons wore it, as it is frequently described in manuscripts of this period. The Bayeux Tapestry (11th Century) represents it, also the helmet of conical shape, with a straight bar in front to protect the nose. What is known as chain mail proper did not appear until after the First Crusade. It was probably derived from the East, where the art of working in metals had long been practised.

Near the end of the sixteenth century chain mail finally vanished, and armour became more elaborately decorated by processes other than the blacksmiths'. Gilding and painting were extensively employed, also engraving. Collections in the Tower of London and in Paris illustrate these decorative effects. Today, they are only seen in a modified form of a cuirass in the splendid uniform of the Horse and Life Guards.

Along with the armour there have come down to our own time the weapons used by the wearers. The massive sword of the early mediæval period, which depended on its weight and keen tempered edge rather than ornamentation, the maces, battle-axes, halberds and partisans show a gradual increase in beauty and finish in workmanship. The sword and dagger hilts become more and more elaborate, especially in Germany, where the blade is often of the most eccentric form and pattern.

Many of the ancient sword-hilts preserved in England, Paris, Madrid, Vienna, Dresden and Turin are of the most marvellous beauty and workmanship, particularly those of the sixteenth century.

Italy and France vied with each other in producing these art treasures of the smith's art. Milan, Turin and Toledo were the

## *The Open Door*

principal sites of industry, and in Augsburg, Germany, there lived and died generations of men who were perfect masters of the smith's craft. It has to be emphasised how thoroughly the capabilities of metal were understood. The casting of metal was scarcely ever practised; these beautiful products were entirely the work of the hammer and anvil.

Ecclesiastical art in blacksmithing is a most important field. Church doors required additional strength beyond the ordinary morticing, dove-tailing and tenoning of the wood. This was imparted by the use of iron, as proved by various existing examples. Scrolls of metal, sometimes covering the whole of the outside of the door, and united by bolts, nuts or rivets, which passed through the thickness of the wood, were used. On the Continent, particularly, the exteriors of doors were entirely covered by plaques of bronze. A survival of this method, at St. Zeno, Verona, is one of the most remarkable examples.

Barfeston Church in Kent has some early iron work on the doors, also the Cathedrals of Durham and Ripon. On the door of Durham Cathedral there is a fine specimen of a knocker called "the sanctuary knocker". On each side of the knocker is the head of an animal. The eyes project and are pierced, and it is believed that they were filled at the back with some paste to reflect light.

The grim knocker played a very important part in early times, for Durham Cathedral possessed the privilege of "sanctuary" and many a poor hunted fugitive must have frantically seized the knocker. Two Benedictive monks kept watch by day and by night in the chambers above the porch, and admitted fugitives to the sacred precincts, where for the space of thirty-nine days they were safe. Later the monks helped the unfortunates beyond the seas and so out of danger.

The masterpieces of the English blacksmiths are the grills of Queen Eleanor's tomb in Westminster Abbey, the west door of Henry III's Chapel, Windsor, and the gates and screens of Edward IV's chantry in St. George's Chapel. These beautiful examples must be seen to be fully appreciated.

In 1690, Jean Tijou, a famous French blacksmith, arrived in England. He brought entirely new standards both of design and of execution and based on the great traditions of French ironworking. The English smiths lost no time in adopting his technique, and designs, which, when published in 1693, brought his style within the compass of the provincial blacksmith.

The screens at Hampton Court are the work of this famous craftsman, and he must be accounted the most important figure in the history of his craft in England. Nevertheless, the chief glory



(By Courtesy "The Age")

N.S.W. FLOOD RELIEF APPEAL

Cheques being handed to Mayor of Howthorn. Left to Right: G. C. Hansen, G. Ball, the Mayor, Cr. T. H. Jockett, B. McLaren, J. Murray.



MARGARET MADDER



#### CRICKET TEAM

Back Row (left to right).—J. Uren (Vice-Capt.), K. Hand, R. Noske, J. Christianson, D. Beanland, J. Helmer, D. Mitchell. First Row (left to right).—G. Randles, B. Eckersley, E. Philpott (capt.), R. Dennis, P. Callow.



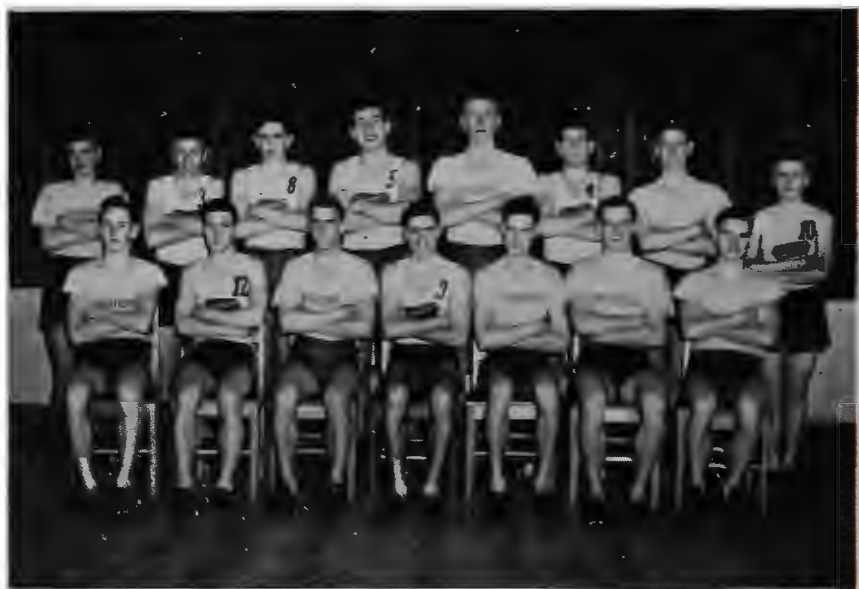
#### WINNERS OF SENIOR SPORTS PRIZES

Back Row.—J. Rennie (Swimming), B. Rubbins (Athletics), P. King (Baseball), R. Nickels (Tennis). Seated.—E. Philpott (O.L.S. Medal and Football). Absent—P. Callow (Cricket).



#### SENIOR SWIMMING TEAM

Back Row (left to right).—P. Willoughby, R. Mackinnon, E. Holding, B. Thrippleton, G. Guy, B. Robbins, J. Hill. Front Row.—J. Rennie, J. Helmer, R. Griffin, F. Bassett, I. Denehy, B. Hocking.



#### SENIOR ATHLETIC TEAM

Back Row (left to right).—J. Hill, E. Philpott, T. Loull, G. Guy, J. Randles, R. Griffin, B. O'Neill, K. Doherty. Front Row (left to right).—B. Robbins, M. Jones, R. Nickels, J. Adams, K. Thornton, F. Bassett, E. B. Barry.



#### SENIOR CROSS COUNTRY ATHLETIC TEAM

Front Row (left to right).—B. Robbins, J. Adams, K. Doherty. Back Row (left to right).—R. Griffin, T. Coull, R. Nickels.



#### SENIOR TENNIS TEAM PREMIERS

G. Lorimer, J. Herring, W. Hodgins, P. Esperson, A. Trathen, R. Cooper. Front.—R. Nickels (Captain).



#### SENIOR FOOTBALL TEAM

Back Row.—N. Stewart, K. Kirkpatrick, L. McIntosh, G. Guy, K. Hand. Middle Row.—E. Barton, F. Bassett, G. Randles, P. Callow, J. Helmer, J. Kairouz. Front Row.—B. Matthews, J. Hill, B. Robbins, E. Phillpot, J. Uren, B. O'Neill, N. Chesterfield.



#### SENIOR BASEBALL TEAM

Back Row (left to right).—R. Mackinnon, M. Griffiths, J. Christianson, R. Noske. Front Row (left to right).—E. B. Barry, D. Beanland, P. King (Cap.), P. Appleby, Wood.

of the English school of this date is the wonderful work upon the gates preserved at South Kensington Museum, and formerly adorning the gardens of Hampton Court Palace. They were the work of Huntingdon Shaw, and rely for effect upon bold curves, sweeps of scrolls, richness of foliage and delicacy of centre medallions.

Today, most people regard blacksmithing as something purely practical. But it is clear from this short review that in other ages it produced exquisite works of art. Working only with a stalwart arm, anvil and hammer, men were able to impart to the dull mass of metal before them energy, life and beauty. And in this age of mass productions it is a good thing to reflect occasionally upon the industrial wonders of other ages, to remember the smiths and the spirit which permitted them to transcend the purely utilitarian motives of those who engaged them.

A.F.

### THAILAND — "LAND OF THE WHITE ELEPHANT"

"Thai" is a nation originally domiciled in southern parts of China, and driven south by the Mongols. Thais were dispersed and separated themselves into three groups. The first group known as Thai Ahom moved to the West and settled in the north-eastern part of India which is now called Assam. The second group known as the Shan people moved to the East and settled in the northern part of Annam, nowadays called Lao. The last group moved southwards and called themselves Minor Thai. Each settlement had its own ruler, but at that time Thai people encountered the environmental dangers from the original tribes of people — Annameses, Peguan, Cambodians and Burmese. The following story will begin with the last group of Thai people.

When we are speaking about the Land of the Rose, it means that we are referring to England, and Australia is known as the Land of the Kangaroo and Gum Tree. Thailand also has her nickname and is known as the Land of the White Elephant. A white elephant is a very essential animal to accompany the throne of each king as an auspicious sign, and it played an important part in the formation of the country in earliest days. In those days the king of every country in South East Asia led the troops and fought on an elephant's back. The Thai king used a white elephant to fight with kings of other countries. The elephant was trained to get used to defence tactics in order to harmonise with the fighter on its back. Elephant fought against elephant while the fighters attempted to kill one another by a glaive or a lance.

The name of the Thai territory was always changed and derived from the reign of each dynasty. There is still some doubt

amongst the peoples of Europe about the name of the Thai territory at the present, and that is why the word Siam has been changed to Thailand. When Annam was taken as the possession of France, the French tried to extend the land to Siam and brought the war with the Siamese. The Siamese lost some parts of territory to the French, namely Lao, and Cambodia. At that period the Thai territory was called "Siemraj" from which the word Siam is derived. The map of the world is drawn and the names of the countries written by Europeans, and it is very hard for them to spell the name when reading the right sound. There are many Siamese who cannot understand the pronunciation of Siam in the English accent, because they all call it "Sa-Yarm"; and they also cannot understand the pronunciation of the word Bangkok in English accent; they call it "Brang-Gorg". The word Siam was not changed by the King of Siam, but by the Government, which wanted to give the country a modern name, so it was called Thailand. Thai is a race of peoples and the territory of Thai people should be called Thailand, and as a matter of fact "Thailand" has been so-called by Thais for generations past. The word Siam is still used among the Thai people, and even in the government bureau, such as Siam Rice Co. Ltd. It is very difficult to find out exactly the derivative root of the names of the places. Most of the people tend to think that the names of the places are named after the discoverer or explorer, because their ideas are based on the New World. It is very interesting to note that Siamese has also become a word of the English language in idiomatic expression, and is used as a prefix; thus Siamese-twins means any twins joined together at birth — as the first Siamese-twins were born in Siam.

Thailand is situated between Burma and Indo-China. The northern part of the land extends to China, the south to Malaya. The country is divided into three regions (northern, central and southern) and has three seasons a year — the rainy season, the summer, and the winter. Each part of the country speaks a language slightly different from the other parts. The language that is used in the central part is the official one, and is used in all the schools in Thailand. The people who live in the northern part have strongly preserved their customs and traditions. Most of the women wear sarongs and have chignons with orchids on them. They are very skilful in sculpture, sericulture, lacquer ware, silver-ware, and weaving. The title of Miss Thailand is often held by a northern girl. The main occupation is forestry and agriculture. Chaing-Mai is the most important city in the northern region, and the second largest city in Thailand.

Those who live in the peninsular part of the country have

slightly different customs and ways of life from the northern people. The main occupations are mining, rubber-growing, and fishing. There are many hatcheries along the coastline. Haid-Yai is the most important city of the region; it is the commercial centre of the southern part of the country.

Central Thailand plays the most important part in agriculture, horticulture, and orcharding. The administrative city is located in this region. Krung-Thep (Bangkok) is the capital city of Thailand and is situated twelve miles from the estuary of the Chao Praya. Krung-Thep is the proper name and is used among the Thai people. It is not the full name but just a part of it. The full name is "Krung-Thep Phra Maha Nakorn Amon Ratana Kosin Phra Mhain Tarawadi". The name of the city was derived from Rama I, the first King of the present dynasty. Upon ascending the throne, Rama I moved from the old capital across the Chao Praya to set up the present capital — the old capital lay on the opposite bank of the Chao Praya River. He was the last king who made war with neighbouring countries, and re-united the separated parts of the country. At this time the extent of the country was larger than it is today — the extent of the country included Lao, Cambodia, and four States of the northern part of Malaya.

Krung-Thep is linked by highways, roads, railroads, and air-routes with every part of the country. Not only is Krung-Thep the administrative centre, but also the commercial centre and the main harbour and port of the country; it is also the transit centre of South East Asia. There are so many temples and monasteries in Krung-Thep that no one can help passing by them. One of the most strikingly impressive sights to the tourists is the Grand Palace. The temple known as the Emerald Buddha temple, annexed to the Grand Palace, has mural paintings showing the episodes of every character in Ramayana (one of the Thai literary works) from the beginning to the end. In the church there is a stand on which the image of the Emerald Buddha stands — made entirely of emerald.

The population of Thailand is twenty million; she has her own culture, customs, literature, art, music, and handcrafts. Niello-wares and silver-wares are the most essential crafts of the Thai people. Stencil cutting and Thai designing are well known drawing arts. Water-lily and jasmine are the national flowers of Thailand while Australia has wattle blossom. The country is ruled by the king under the constitution. Thailand abounds in natural resources, and is a peaceful country, while the neighbouring countries are struggling for freedom, and are threatened by the Communist regime. But she was forced by the inevitable circumstances to enter into

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the First and Second World Wars. In the First World War the country was allied with the victorious nations, but the last war was vice versa. After the war, Thailand was not occupied largely owing to the attitude of America and Nationalist China, but she paid war damages to the Big Four. At first the American Navy came to disarm, and disband the forces, but within a few months had rearmed and organised a M.A.G. unit (Military Advisory Groups) in the country to train the Royal Thai Forces — Army, Navy, and Air Force. When the country got rid of her problems and hard burdens, she became the land of peace, and the land of beauty for the tourists, the businessman, and the politicians from abroad.

K.

[The author of the above article is a native of Thailand and a student at Swinburne.]

### IS IT, A FURPHY?

It happened in Balwyn and only a few months ago. A water-wagon, with three Camberwell City Council employers in attendance, doing a repair job, pulled up outside my residence.

I have been interested in water-wagons since an old friend of mine, the late Adam Jackson, an ardent Methodist, persuaded his father-in-law — FURPHY, engineer, also an ardent Methodist — to have welded on the front of all the water-wagons manufactured in the foundry the Emu and Kangaroo and Australian Coat of Arms. Underneath these in Pitman's Shorthand was the famous edict POPULATE OR PERISH issued to Australians by the late William Morris Hughes, former Prime Minister of Australia. More conspicuous in an arc across the front of the wagon were the words also welded in Pitman Shorthand characters: "WATER IS THE GIFT OF GOD BUT BEER AND WHISKY ARE GIFTS OF THE DEVIL. COME AND HAVE A DRINK OF WATER."

Noticing that I was very much intrigued with these shorthand inscriptions the three men ceased operations to ask me if the "hieroglyphics" were Egyptian or Chinese ! ! ! I might mention that all three men were by no means illiterate, one holding a London Watch and Clock Makers' Diploma, another being an ex-foreman carpenter and the third a qualified tradesman.

As a Swinburne instructor I had the gratification of being able to enlighten my listeners as to the meaning of the magic signs, much to their satisfaction and appreciation.

These FURPHY water-wagons with the shorthand welding are very widely known and were used extensively in the First and Second World Wars in various theatres of battle action, and today

are scattered far and wide over Australia doing useful service in more peaceful surroundings on many an out-back cattle or sheep station.

In Flanders the "diggers" would gather round these water-wagons which became a kind of rendezvous and, whilst responding to the invitation on the wagon to partake of its contents, would relate to their listeners blood-curdling episodes and hair-raising experiences, occasionally allowing imagination to run riot, this propensity being the origin of the well-known slogan in the ranks: "Is it a FURPHY?" And many were the soldiers who, intrigued by the shorthand characters, would ask those better informed of the symbolic meaning and would leave the tank not only refreshed in body but somewhat enlightened in mind as to the various uses to which Sir Isaac Pitman's system of shorthand has been adapted.

W.E.H.

## NATIONAL SERVICE TRAINING

### PART I.

This article has been prompted by the many questions that have come my way since returning from the first intake under National Service provisions, 1954. Obviously, the material is of use to fourth-year students, but it may also prove interesting to those who have yet to receive their call-up notices.

To begin, my advice to third-year students contemplating training is not to do so until a course has been completed at school; otherwise some eight to ten weeks of valuable schooling will be lost. Loss of time from lectures and laboratory work is not an unsurmountable obstacle if you are prepared to work hard afterwards, but there are difficulties — very obvious difficulties.

Probably the most frequent questions concern pay and food, and they are most understandable questions.

In the matter of pay, the rate per day is 22/9, seven days per week. Out of this amount is taken daily something like 1/9 tax and approximately 5/- as deferred pay, leaving a net result of £5/12/- per week. Non-smokers and non-gamblers will find that drawing around £3 a fortnight will about suffice for general needs. Working on this basis, savings during the fourteen weeks of training would amount to approximately £80. Obviously, an easy way to secure that down payment for private means of transport (assuming, of course, the reader is not interested in late models)!

On the question of food, my opinion is as follows: Some of it you could eat, some of it you could not. But after spending some time in the kitchens acting as Duty Company, I came to understand what a tremendous and difficult job it is to prepare meals for large

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numbers, and formed the conclusion that those responsible in the matter of food were doing a very good job. The food question is, naturally, a difficult one, as tastes vary considerably. But no one undertaking training need worry. You will be kept well above the starvation line. And there is always the canteen!

Camp life is another aspect to draw questions. Life begins each day at 6 a.m., and formal duties cease around 4 p.m. There are morning and afternoon breaks. However, a great deal of your spare time will be taken up with keeping equipment and gear clean (and "will" is the right word). The rest of it — what there is of it — can be spent at the pictures, at the library or at the various huts, which have facilities for games, such as billiards and table tennis. The day closes with lights out at 10.30 p.m.

Saturdays are devoted to general maintenance work around the camp. When these jobs are completed early, the rest of the day is free. But most of the free time goes in cleaning your own equipment, in washing and in ironing. I very politely recommend that some feminine hints be obtained beforehand on the means — scientific or otherwise — of extracting dirt from clothes. Some practice in ironing is also desirable.

Local leave permits are granted practically every week-end, from 5 o'clock Saturday till midnight Saturday, and from 11 o'clock Sunday morning till 10 o'clock Sunday night.

During the fourteen weeks of camp three home leave passes are issued. On these leaves arrival in Melbourne is around 8 p.m. Friday nights. The return train is around 9 o'clock on Sunday evening.

Your first day in camp will be the most memorable. Later, you will see the funny side of it. This, together with the two weeks you will spend as Duty Company, will make the rest of your stay in camp seem like a holiday.

One point must be emphasised. The fourteen weeks you will spend in camp do not complete National Service training. The remainder will be completed in a C.M.F. unit, to which you will be posted before leaving camp. For two more years, it will be necessary to attend a set number of parades per year, and an annual camp at Seymour.

In conclusion, although I am strongly against the principle of teaching man the art of killing his own kind, National Service afforded me the opportunity of meeting and mixing with fellows of my own age group and from all walks of life. I have not only made life-long friendships, but have gained a far greater sense of comradeship and team spirit, and these are the things I think

National Service can use to make citizens worthy of a place in any community.

Here's wishing you a happy fourteen weeks at "Pucka".

G. M. PEACOCK.

## NATIONAL SERVICE TRAINING

### PART II.

I have been asked to peruse Graham's article and bring it up to date in the light of very recent experiences.

Firstly, I would agree that the best time to do the training is after completing the school course. If you do it after the 3rd year as I did, you will find there is a tremendous amount of work involved in catching up on the course when you get back. Even though the cost of living has risen, I regret to say that National Servicemen's wages have remained at the halt. Just by the way, I drew £3 a fortnight in camp, and found it ample. I am afraid I have to disagree with Graham's opinion on the matter of food. I found the food A1. This could possibly be put down to the fact that I was in the best Battalion (the 14th) which had, just prior to my intake, taken over a new site equipped with the latest in cook houses, laundries and showers (hot and cold). So there you are; make sure you get into the 14th Battalion (Royal Australian Artillery).

[If some kind soul would send a copy of this to Army Headquarters, I'm sure I'd get some strips for that plug!] Obviously Graham's platoon commander was no athlete — mine used to get up at 5 a.m. to go for a three mile run.

I would like to bet now, that after a fortnight in camp you will wish you had your mother there to do the washing, ironing, and sewing. What a job! I would sincerely advise you to take a few lessons in all three arts before January comes around. Graham omitted one aspect of camp life that I am sure you will enjoy. The Army calls them "Needle Parades". (We used to call them other things). During the 14 weeks your arm (one or the other — or if you don't keep awake, both) will be subjected to about a dozen sharp jabs, after which you get the strangest feelings. Still, you live! A final word of advice. You have to do this training, so make the most of it and you will, as I did, have a darned good time and come away with many more friends than you had 14 weeks earlier. Good luck, fellas ! !

. P. H. KING.

## LANGUAGE REFORM

During the recent Geneva political conferences, many of the personages and attaches who were present experienced considerable

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difficulty in communicating with others, because of their inability to converse effectively in languages other than their own. Today, people throughout the world spend an enormous amount of time and money in becoming multilingual and in translating from one language to another. We, as chemistry students, have to spend some of our valuable school time in gaining a reading knowledge of German, because it is possible or likely that we may need to use it during our professional lives. But what profit is it if we need to read matter written in French or Italian or Russian or Japanese? The obvious solution to these troubles is the universal introduction of a second world language for all people.

Firstly, a suitable language must be selected; a national language is too controversial and the learning of it is difficult. The only logical choice is a synthetic language. I suggest that we should campaign for the introduction of Esperanto, a language invented by a Russian Jew named Zamenhof. It is a simple, scientific and easily learned language which could be taught even in elementary schools. Its introduction would enable people to travel from country to country without learning the native tongues; the teaching of foreign languages in schools would become almost superfluous; matters of universal interest, such as the contents of scientific periodicals and books, would be printed directly in the universal language, so as to become accessible to all and confusion due to imperfect translation would be eliminated.

Only the dead hand of tradition prevents the introduction of this needed bridge between the peoples of the world, with the elimination of many misunderstandings, and with profit and saving of time and money to all.

D.G.M.

## COMPONENT DESIGN IN RACING CARS

It is probably true to say that there has been more pure design in motor-racing in the past year than ever before, and if one counts sports-car racing in with Grand Prix racing, then this is certainly so. With Grand Prix racing being run under a new Federation Internationale de l'Automobile Formula planned without recourse to available material, for the first time since 1938, the designers of racing cars have had a completely free hand. Since 1946 racing has been under formulae that were laid down after looking around to see what types of cars were available, instead of the normal way of building cars to a formula.

Already, in the first year of the new formula, we have seen two cars that have been built specifically for existing rules, having few traces of parenthood from designs of past eras. Of these two,

the Lancia is surely the best example of a completely new design, mainly for the simple reason that the Turin firm has never before built a Grand Prix car, so there was no background from which to draw knowledge. The other car is the Mercedes-Benz, also a completely new design, but one that benefits in many ways from the years of racing experience that Daimler-Benz have had.

Of the other competitors in today's Formula 1 racing, both Ferrari and Maserati utilise many parts of the designs of their racing cars of the past five years. Gordini is using virtually the same car as in the past, so that design in connection with the French cars is more a matter of detail work than basic racing-car design.

As with the two firms of Modena, so Connaught and Vanwall have built new cars to the formula, using knowledge and component designs developed with cars of the old formula, but it is to the credit of the Vanderwell team that they have an entirely new engine, though again this was originally laid down for the old Formula.

Of four cars: Ferrari (four cylinder), Maserati (six cylinder), Mercedes-Benz (straight eight cylinder) and Lancia (Vee eight cylinder), if we take almost any component part of any of these we will find a remarkable lack of similarity in design. On adding the other makes, Vanwall, Gordini and Connaught, the variants of any given theme make up a total that is stimulating in the extreme, and one that shows that originality of thought in the Grand Prix world is as high as it has ever been.

An article such as this cannot hope to cover the whole field of racing car design; so suppose we pick out just one item, say the gearbox.

A popular trend is to design the gearbox and rear-axle assembly as one unit. With the advent of independent rear suspension and de Dion rear suspension, the gearbox somewhat naturally was built as part of the rear assembly, but a further move, as exemplified by Maserati, Ferrari and Lancia is to design the complete assembly as one unit, rather than two parts bolted together. Both Maserati and Lancia have gone one step farther in mounting the gearbox part of the assembly to one side of the centre line, with the gear shafts running across the car, Lancia going so far as to incorporate the clutch in this assembly. Ferrari, Vanwall and Connaught have the gearbox in front of the differential assembly, while Mercedes-Benz have it behind. In all cases there is complete agreement over the use of a train of gears to raise the propellor shaft line up to the wheel centre-line height. Even Gordini is in agree-

ment on this point, having a step up gear train on the front of the differential assembly; though in this case the gearbox is attached to the engine, because of the car having a rigid one piece normally sprung axle. As far as the number of ratios incorporated in the gearbox is concerned, the general trend is for five speeds; the reasons are numerous. Engine revolutions are continually increasing, Mercedes-Benz using over 9,500 r.p.m., Maserati and Lancia 8,200, Ferrari 7,400, Gordini 7,000, Vanwall 6,500 and Connaught 6,800, and in consequence the bottom useful rev limit rises, so that the use of five speeds to keep the engine working within its best rev-range is becoming essential. In addition the maximum speed of today's Grand Prix cars is not far short of 170 m.p.h. and with a four speed gearbox, such as on the Ferrari or Maserati, getting away from a standing start was a matter of extremely fine judgment, to find that crucial point between the extremes of stalling the engine and spinning the wheels.

Mercedes-Benz designed their cars with five-speed gearboxes, so that when pulling a very high axle ratio, as at Rheims, they had an enormous advantage over their rivals both at the start and getting away from slow corners. Gordini also built a five-speed gearbox for his cars, again with the object in view of making the initial start a great deal easier.

On production cars in England the use of an overdrive to supply a fifth gear is becoming increasingly popular, but this must not be confused with the racing five-speed gearbox. The overdrive merely supplements a rather low rear-axle ratio to allow of lower engine revolutions at a given road speed. The racing five-speed gearbox is a different thing and is an approach towards the ideal of a constant speed engine with an infinitely variable gear train to transmit the power to the road wheels. Alone in this question stand Connaught, who stick to a preselector gearbox of proprietary manufacture, whereas all other firms build their own units.

The control for the gearbox shows no particular trend, the designer paying no thought to whether a driver can operate a lever better with his right-hand or his left-hand. Mercedes-Benz, Lancia and Maserati use right-hand levers, Ferrari and Vanwall left-hand, Gordini central and Connaught have their selector quadrant mounted on the steering column, albeit moved by the right hand.

With the possibility of ten different makes of Grand Prix cars participating, designers are going to have a very busy time and the larger and more organised firms will probably produce new cars before the season is finished. One day we may even arrive at the ideal situation of having a different design of car for each type of Grand Prix circuit.

W.J.H.

## FLUORIDES AND DENTAL DECAY

A number of studies in America have demonstrated that there is much less dental decay ("caries" to the expert) among children and adults born and brought up in areas where the drinking water contains fluoride at a level of one part per million of water than there is in the case of similar people living in places where the water is free from fluoride. Compared with children in areas where the drinking water contains little or no fluoride, children aged from twelve to fourteen years show 60 per cent. less caries if they are lucky enough to be born and live in areas where the natural water contains fluoride and about six times as many of the children have no caries at all. A few studies among adults in England and in U.S.A. show that the effect of fluoride persists at least up to the age of forty years.

Naturally these results have led to the addition of fluoride to water supplies and in some of the regions where this has been done the dental effects of "fluoridation" have been studied carefully. The evidence shows conclusively that in regions where the water has been treated there is a reduction in the incidence of dental caries to a level comparable with that found in areas where the natural water contains fluoride. The concentration used is about one part of fluoride to a million of water and there is little or nothing to suggest that the treated water has any ill effects or is a danger to health. Reasonable concentrations of fluoride in water do not seem to affect the death rate or to cause increase in sickness.

The opinion has been expressed that fluorides in water can cause mottling of teeth; it has been stated that ten per cent. of the children may develop very mild mottling of the teeth. When this mottling does occur, it is apparently only an occasional white fleck on the enamel which is detectable only by expert examination. The appearance of the teeth is excellent.

Dosage of the water with fluoride by the user is not advised; if fluoridation is to be done, it is better carried out by the water supply authority. Tablets of sodium fluoride can be dissolved in drinking water for an individual or family, but there is the danger that careless use may be ineffectual or even involve a health hazard.

Very little investigation has been carried out on the fluoride content of Victorian waters. Generally it seems that the fluoride concentration is less than the desirable one part per million; one part per two million of water seems to be the average. The water supplied to Melbourne is almost free from fluoride, so it would seem to be desirable to treat our metropolitan water supply. More Australian investigation is urgently needed.

R.L.

## FOOD FROM PUDDLES

Most of us are acquainted with the green slime that is apt to form in standing water such as rain puddles and ponds. Most of us are aware that this green slime is due to certain organisms, but how many of us would think of it as a possible source of food? Yet scientists in a number of countries are doing just this.

For many years plant physiologists have carried out experiments on a particular type of alga known as *Chlorella*. This has the virtue of being a simple, single-celled plant which is very easily grown in a laboratory. The basic essentials for the growth of *Chlorella* are sunlight, carbon dioxide and water containing certain substances such as magnesium, phosphates and nitrates. However, the actual industrial preparation is a more difficult matter. The main problem on which the scientists are working is to obtain a growth which will furnish the material in a sufficiently concentrated form to be economically useful. *Chlorella* will not grow in water that contains too many of the cells, because insufficient light reaches the growing plant if it is below the surface. This means that shallow tanks must be used to enable the sunlight to penetrate, but, on the other hand, shallow tanks do not permit the formation of large volumes of *Chlorella*. American scientists have experimented by circulating the liquid through transparent pipes with some degree of success.

The resulting *Chlorella* contains from thirty to fifty per cent. of protein and many vitamins. It has been proved that *Chlorella* powder is readily digested by chickens, cattle and sheep. For man, however, a difficulty develops that the cell walls consist of cellulose which he does not readily digest.

If and when these problems have been overcome, *Chlorella* crops offer a means by which large populations with limited agricultural resources may be fed. Japan, Germany and Israel have progressed further than most other countries. The next few years of research will show whether what is already scientifically feasible will also become economically practicable.

“X.Y.”

## PRESSURE PROCESSES FOR THE EXTRACTION OF METALS

Throughout the world and especially in the last few years, great concern has been expressed concerning the dwindling amounts of mineral ores from which we obtain the metals so necessary for our civilisation. Large deposits of low-grade ores exist, but treatment of these by conventional methods to obtain the metals is very costly

and in most cases the yields of metal are very small. Metals especially concerned are nickel and cobalt (where minerals may contain less than one per cent. of the metal) and manganese. In the latter case the chief deposits are in U.S.S.R., although low-grade ores are found in other countries, including U.S.A. The extraction of these metals for use in alloys is a problem of major importance and, therefore, much research has been undertaken in the hope that new methods of extraction would be developed.

Research work in Canada and in U.S.A. has resulted in new and relatively cheap methods of extracting nickel, cobalt, manganese and uranium from ores of very small metal content. The general method is to concentrate the valuable materials in the ore by flotation and then to feed the resulting sludge into pressure vessels. After adding any necessary chemicals, whose nature depends on the type of ore, air at pressures from 2 to 12 atmospheres at temperatures ranging from 100 to 400 degrees Centigrade is used to effect the extraction. The resulting reaction causes the metal to pass into solution. After filtering to remove undissolved matter, the solution is purified and then fed into a second pressure vessel where the metal is precipitated as a powder by forcing in hydrogen at pressures from 2 to 20 atmospheres at about 100 degrees C. The production of hydrogen when a metal dissolves to form a salt is probably one of the best-known of all chemical reactions; its reversal is rather "big news".

The success and attractiveness of these new processes is shown by the formation of a number of new companies in U.S.A. and Canada which propose to utilise the methods.

In a variation of these processes ingenious use is made of the presence of a common impurity in such ores, namely iron pyrites, a sulphide of iron. Up till the present, the occurrence of this mineral in an ore very much complicates the treatment and usually makes it necessary to use costly methods for removing it. In the new process, pyrites is added if it is not already present. When the ore is "cooked" under air pressure, the pyrites generates sulphuric acid which is used in dissolving the wanted constituents of the ore. At the same time the iron and some of the other impurities settle out from the solution as an easily-removed sludge. Thus the villain pyrites becomes a vitally important helper in the utilisation of the ores.

Another development that may soon find commercial application is a new process for the production of pure copper from copper or brass scrap or from blister copper. The product is nearly one hundred per cent. pure, being equal to the highest grade of commercial copper. At the same time there is almost complete recovery

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of the zinc, which has hitherto been lost in such operations for the treatment of scrap. Apparently this process has not yet been used in Australia but it has been patented here and it is to be expected that it will soon be in operation.

It seems feasible that similar treatment may make it possible to recover aluminium from clay which has long been an unsolved problem of pressing importance. Australia imports bauxite for the production of aluminium, so the utilisation of aluminium and of Australian clays to provide a local raw material is of major importance. In many of these processes the occurrence of metallic sulphides in the ores leads to the formation of sulphuric acid, which assists in dissolving the minerals and may be recovered as high-grade sulphuric acid at the conclusion of the process.

M.A. & W.K.

### PRODUCTION ENGINEER AT WORK

After twelve years' experience, mostly in production engineering, I am convinced that the trend today is toward a more scientific approach to engineering problems. Undoubtedly the war raised the standard of engineering so that it is now vitally necessary for the production engineer to have a sound understanding of fundamental principles.

The young P.E. needs to have a thorough knowledge of workshop technology, meteorology, jig and tool design, and motion and time study. Today management requires him to advise how the plant should be laid out and run. Management also wants to know the type of equipment needed and how much it will earn or save in a given period.

Many firms, such as the one I am employed with, are prepared to spend vast sums of money on the latest and most modern type of equipment. It is part of the P.E.'s task to get his facts right, select the best equipment for the job, and then sell his ideas to those who control the purse strings. This is not always easy — particularly if you want £100,000 to buy some new machines.

With the accent today on efficiency, the P.E. must be capable of estimating times, planning operations and scheduling work through the shop in the most economical way. It is just not possible to succeed in these duties without specialised training.

There is another important study every engineer should undertake. He should endeavour to develop leadership and those traits of character that help toward good personal relationships. A graduate may easily find himself at an early stage of his career in a position of high responsibility. He therefore cannot afford to neglect this study or he will throw away opportunity.

There appears to be no limit to how far a young qualified P.E. can go in his profession. The opportunities are plentiful but there are few today who are able to grasp them.

L. R. HARRISON.

[Mr. Harrison is a part time student in Production Engineering, now employed as a Process Engineer by General Motors-Holden's Ltd.]

### BEWARE!

Verily I say unto thee, marry not a Metallurgist,  
For a Metallurgist is a strange being and possessed of many evils.  
Yea, he speaketh in parables which he calleth formulae  
He wieldeth a big stick which he calleth a slide rule,  
And he hath only one bible — Metals Handbook.  
He thinketh only of stresses and strains and without end of thermodynamics,  
He showeth always a serious aspect and seemeth not to know how to smile.  
He picketh his seat in a car by the temper of the springs thereof, not the damsels therein.  
Neither does he view a waterfall except he thinks of cooling curves,  
Sunset except he thinks of a furnace, nor a damsel except in terms of her reducing powers.  
Always he carries his books with him, and entertaineth his sweetheart with Butt's.  
Verily although his damsel expecteth chocolates when he calleth,  
She opens the pocket to discover samples of iron ore.  
Yea, he holdeth her hand to measure the hardness thereof,  
And kisseth her to determine the surface properties of her lips,  
For in his eyes there hideth a far away look that is neither a longing nor a desirous look,  
Rather a vain attempt to recall lost formulae.  
Even as a boy he pulleth girls' hair to test its elasticity,  
As a man he denies different motives  
For he counteth her heart beats to determine her fatigue strength, and speaketh ever to pursue the scientific investigations.  
Even his own heart flutterings he counteth as the movements of dislocations  
And describeth his passion in terms of heat treatment,  
And his marriage as a entertic mixture, extremely liable to age hardening.

[With acknowledgements to CRANKS AND NUTS.]

## A STENOGRAPHER'S LAMENT

Her figure was a dream so rare,  
Her voice was sweet and low,  
Her hair a shock of shining gold  
When gentle breezes blow.

Her eyes were blue, her skin so fair,  
The fairest ever seen.  
She could not spell, nor tot up well,  
Not even by machine.

Her typing speed was thirty plus,  
Transcription just fifteen.  
Her shorthand notes were big and bold,  
And gaps came in between.

An office must efficient be,  
She left . . . 'twas not a loss.  
But I'm still at the same old job.  
*She's* married to the boss.

[With thanks to P.O.T.]

## THE TEMPERAMENTAL FOLK

We sticks are doing time at Swinburne Tech.,  
We think a' makin' art our aim in life,  
An' pushin' pencils for our weekly cheque.  
But all this strife,  
With stern old teachers givin' us the clues,  
Is near enough to make us hit the booze.

There's Ron, the stick, who's vanished down below,  
To study pott'ry in the murky gloom,  
E's learnin' 'ow to glaze an' fire an' throw,  
In Ada's room.  
But when 'is love of pots is growin' small,  
He tears upstairs to see the fair wee Paul.

Old Ray's a really bodgie sort of coot  
He wears smooth clothes an' sometimes bright pink socks.  
With iron nerves he makes his Riley shoot  
So fast, he mocks  
The poor old cops who soon get left behind  
While Ray has thoughts of M.G.'s on his mind.

John Zurbo's always wearin' out 'is brane  
To find out somethin' abserlootely noo.  
To reach the moon, or Mars, or build a plane  
That whistles through  
The sky so fast it will astound all sticks.  
"Aw nuts", says John, "I still like thirty six".

And there's a stick called Eric who's a toff,  
A real smart la-de-dah an' cultured sort,  
Who giggles and gives out a silly coff,  
Ar, you'd 'a thought  
'E's just a sissy coot. But 'ear 'im swear  
'E'nuff to curl an 'ard old warfies 'air.

A couple of bods 'as real 'igh thorts  
About some Plato prawn 'ooevers he.  
They goes to English an' they writes reports  
That's not for me.  
These silly dills with books can go their way,  
I'll 'ave the bloomin' pitchers any day.

This year we got a stranger in our push,  
'E's got a taste fer wimmin wine an' song,  
'E comes from some crook place way out the bush,  
Name a' Geelong.  
This Ian bloke at first was quite a turn  
'E even thort we came to school to learn.

So there we are — fair dinkum what a lurk  
The 'ardest workin' bunch of kids at school  
Respectful to the staff — eager to work.  
If we can fool  
Our dear instructors with this cunnin' song,  
We'll pass our fourth year easily — so long!

"3rd YEAR MENNIS."

MY MESS

The love of cream in coffee,  
Of greens and well-cooked brains,  
Of ordered meal-time dishes  
Is running in your veins,  
The love of deep brown gravy,  
Fresh peas and well-filled pies—  
I know, but cannot share it,  
My love is otherwise.  
I love a well-burnt custard,  
A meal of greens unstrained  
With condiments like mustard,  
Which cause digestive pains;  
I love our charcoal cornflakes,  
Splurge soup and weak brown tea,  
Our soggy toast—no butter—  
The CADETS' Mess for me!  
The stark, white saltless porridge  
All sticking to the spoon;  
The murky, misted serv'ry,  
The steam filled mess at noon;  
Greens tangled with the mushes  
Where lithe spaghettis coil,  
The scrambled egg, once powder  
The spinach filled with soil.  
Core of my heart—my pantry!  
Land of the food so cold,  
For screaming at the stewards,  
They pay us back threefold.  
Over the eggs and bacon,  
Watch, as they're on the trays,  
The filmy veil of dripping  
That thickens as we gaze.  
A frankfurt-crazy pantry—  
The sausage always canned.  
All you who have not dined there  
You will not understand.  
Though restaurants have splendours,  
Wherever I may die,  
I know to what grim pantry  
My homing thoughts will fly.

[With acknowledgments to Dorothea McKellar and the Royal Australian Air Force College.]

## THE COMMERCIALISTS

We are from the Commercial School,  
A short way down the road,  
We all have many pin-up stars,  
But our favourite is Lew Hoad.

Shirley has been here the longest,  
For Maths, it's always YES !!  
We still don't know the reason,  
Maybe you can guess.

Margaret, Lorraine and Pam we're told,  
Are always looking for books,  
We know they go to the library,  
But we think it's just for looks.

We're glad that Leck's still with us,  
And with Carol and Kosol here  
Whenever she does feel homesick,  
Visions of Thailand are near.

Mrs. Renard, Gwen and Anne,  
Will now please take their bow,  
They are very jolly company,  
As all the rest avow.  
From Maryborough and Warrnambool are the two  
Joans,  
Who should make charming teachers,  
Tech. School Balls and softball bats,  
Are two of their noted features.

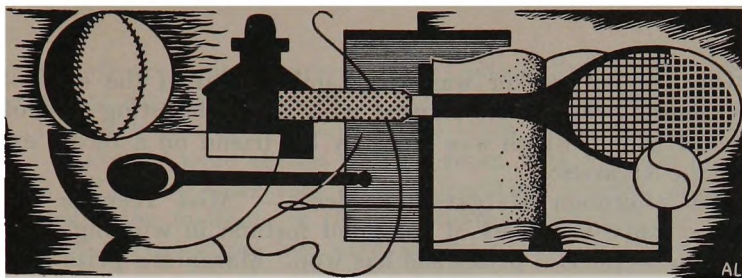
We hope this brings us closer,  
Although we're so far away,  
But remember we're still Swinburnians,  
Bright, happy and gay.

J. & J.

*The Open Door*



ARTBOARD JUNGLE



## GIRLS' JUNIOR SCHOOL

### INTERMEDIATE TECHNICAL CERTIFICATES, 1954

The following girls gained their Intermediate Technical Certificates in 1954:—

Judith Stevens, Lois Greaves, Beverly Holt, Lois Thompson, Gwyneth Butler, Barbara Fenton, Althea Dyer, Rae Battersby, Beverley Mann, Gwenda Robson, Iris Edwards, Pat Newman, Marion Thomson, Ursula Ginz, Jean Mierisch, Lorraine Williams, Margaret James, Merle Gilbert, Sue King, Betty Collins, Joyce Derry, Betty Allan, Beverley Morrison, Doreen Taylor. (24 Certificates.)

### THE SCHOOL ASSEMBLY

One morning at school assembly Miss Thomsen, our Head Mistress, showed us some very lovely pictures. The first one was of our Queen, which an Italian artist had painted very beautifully. The second was of the Madonna of the Streets — an Italian lady holding her baby in her arms, and gazing at a figure of the Madonna in a little niche in a wall. The third was one of Mona Lisa with an interesting background. And lastly, there was a print of the Madonna and Child, for which Miss Thomsen had paid sixpence. The original painting is in the National Gallery and is worth thousands of pounds. To finish up the assembly, Mr. Bode played a recording of Janice Taylor singing "The Laughing Song", which she had sung the previous Sunday in a radio broadcast.

BEVERLEY ROSS, 1C.

### SPEAKERS AT ASSEMBLY, 1955

We have had three speakers at our school assemblies this year.

Our first speaker was Miss Lynch of the Girls' Junior School staff. She told us of her visit to Malaya, as a physical education teacher with the Y.W.C.A. In Malaya, school is held in the mornings, as it is too hot to do anything active in the afternoon. Miss Lynch taught folk dancing to classes much larger than ours.

## *The Open Door*

Our second speaker was Mr. Lamble, also of the staff of the Girls' Junior School. He showed us a very interesting film of life on Heard Island, which was made by his friend on a recent expedition to the Antarctic.

One afternoon Margaret Madder — "Miss Teenage of Victoria" — came to tell us of her good fortune in winning this title, and of the wonderful prizes she has won. Margaret's prize included a trip to Hollywood, beautiful clothing and a diamond ring. Two years ago, Margaret was a student at Swinburne Junior School, and now she is studying for an Art Diploma to enable her to be an art teacher. We hope that, when Margaret returns from Hollywood, she will tell us of her trip.

LORRAINE COUTTS, Form 3AP.

### SCHOOL EXCURSIONS, 1955

This year the school has gone on several excursions. Three orchestral concerts have been attended by several forms; and the items by orchestras and soloists have been enjoyed by all.

Early in the second term the school attended a performance in the Melbourne Town Hall by the visiting Danish Gymnasts. The first part of the programme included rhythmical dances and exercises by a group of young women who teamed balance and precision with graceful beauty. The second part of the programme was performed by the men of the team, who showed their marvellous balance and physique in the form of exercises and acrobatics. Finally, the men and women joined together in a National Dance which was both colorful and amusing.

The Industries Fair, held at the Exhibition Buildings was an excursion many forms enjoyed. At the fair we watched the stages of production of many industries, and were most interested in the collection of pamphlets and samples. A very enjoyable exhibition of clothing was given by leading Melbourne models at a mannequin parade, and a puppet show was an interesting attraction.

Some forms went on a very pleasant excursion to the Burnley School of Horticulture. We were very interested in the manner in which the boys and girls are taught the methods of horticulture.

The buildings are set in delightful gardens where the students have their practical experience. We were shown an apiary and an orchard, where we were amazed to see students working between the rows of trees in slacks and jodphurs, and some riding round on a tractor. We all agreed this was a school with a difference.

One afternoon the third and fourth year professional groups visited the Melbourne School of Nursing in Malvern. This is a large white building in pleasant surroundings. The sister in charge greeted us and showed us over the building. First we visited the

classrooms where student nurses attend lectures, and then we inspected a large airy room, set up in the same manner as a hospital ward. This is where the student nurses learn the first methods of nursing. Next we were shown a large room with curious looking apparatus. This we were told is the Operating Theatre and here students learn the methods of theatre nursing. After being shown this part of the building, we were served afternoon tea with the student nurses, in a bright attractive room set out with tables and chairs. Finally we were taken to the library where the nurses can go to study. This was a very interesting afternoon for all of us, and especially those interested in the nursing profession.

LORRAINE COUTTS, Form 3AP.

### VISIT TO NATIONAL THEATRE

On February 25th, several 4ab girls went with Miss Renshaw to the National Theatre. The play staged was Shakespeare's comedy, "Twelfth Night".

The play was very amusing. The characters took us back many years in their costumes. Malvolio was the most amusing character in the play, in yellow stockings with black crossed garters. He wore these in the belief that he was pleasing Olivia.

As we were studying this play in class it helped us considerably in our work.

Our thanks go to Miss Renshaw for taking us.

JUDITH KENNEDY, 4b.

### THE CHILDREN'S BOOK COUNCIL OF VICTORIA

On the evening of the second of June a meeting of the Students' Book Council was held at Emily McPherson College. Representatives from many schools were present.

Firstly, the chairman opened the meeting by explaining the purpose of the club. This was to discover which books are found popular with children. The polls showed that "Reach for the Sky", "Jane Eyre" and "The Dam Busters" were among those to receive the most votes.

Many heated debates arose concerning the suitability of certain books. We found these discussions very interesting. An appeal was launched to collect books from the represented schools for Institutions and Orphanages throughout Victoria.

Swinburne girls have responded well to the appeal and we have quite a number of books up to date. As this meeting was most informative and enjoyable we look forward to our next meeting.

E. PIGOTT,

P. LYNCH,

Form 4AP.

## LIBRARY NOTES

First we would like to introduce ourselves. We are Prudence Prior, Barbara Hatfield and Janice Hanger, the library monitors. Miss Renshaw, who is chief librarian, has been very busy reorganising the library.

We have a great number of new books of all descriptions.

We hope in the near future to have all the books arranged in order, as we now have plenty of shelf space. There is an increasing interest in our library, as can be judged by the number of new enrolments each week.

Every Wednesday after the girls have eaten their lunch,

Across to the library they rush in a bunch.

Then to the librarians they come one by one,

And we stamp and we check till the books are done.

Then when the bell goes, there is a great scurry,

And off to the quadrangle we all do hurry.

## MATHEMATICS LIBRARY NOTES

A mathematics library has been started this year in J.16 on Wednesdays at lunch-time. The library's purpose is to help and encourage girls with their studies. Mr. Lamble has made this possible and has obtained many books for the library shelves. The total is about 90 books. So far there are not many girls making use of the library, but we hope in the near future that more girls will be interested.

MARGARET RODDA.  
LYNETTE MORGAN.

## THE KIEWA TRIP

At 8 o'clock on a cool Monday morning in October last year, thirty-four of us, including Miss Lynch and Miss Lobb, set off in the bus which was christened later "Genevieve" after its many breakdowns. A few miles out of Benalla we had our first breakdown which we took as a great joke.

We arrived at the camp one mile from Bright at five o'clock. The first night was nerve-wracking. We fell into bed, exhausted from our long day, and to our horror, bang! went the beds one by one. After we had gathered up the straw and stuffed it back into the palliasses, we meekly slipped back into bed again. The straw kept poking into us and it was two o'clock before we settled down.

At five next morning we silently crept into the next hut which was occupied by Elizabeth, Betty, Margaret and Sue. With a gentle push their beds came crashing to the floor. That day we went to the Flax mills and the Tobacco Kiln and, after dinner, to the gold mine at Wandiligong, where we searched fruitlessly for gold.



#### JUNIOR GIRLS' TENNIS TEAM

Back Row (left to right).—Barbara Chesterfield, Marilyn Little, Fay Castle. Front Row.—Lorraine Fleer (Capt.), Beverley Cribbes.



#### JUNIOR BASKET BALL TEAM

Back Row (left to right).—Patricia Smith, Valerie St. Aubyn, Dorothy Brown, Patricia Watson, Lois Karthaus. Front Row.—Lolita Senbergs, Fay Dabb (Capt.), Jeannette Matheson.



#### FORM CAPTAINS

Back Row (left to right).—Robyn Kennedy (1B), Helen Morley (2B), Valerie Bombardier (1B). Middle Row.—Christine Plant (1C), Wendy Griffith (4B), Adele Rogers (4A General), Christine Frickle (3A Professional), Lolita Senbergs (2A), Diane Whitelock (3C). Front Row.—Laurel Mollison (3D), Lynette Walker (3B), Heather Cheyne (3A), Marion Lawson (4A Professional), Margaret Brown (1A).



#### SPORT AND HOUSE CAPTAINS

Back Row.—Marjorie James (Captain Blackmore House), Angela Westerman (Vice-Captain Swinburne House), Patricia Lynch (Captain Pridmore House), Leonie Thorpe (Vice-Captain Blackmore House). Front Row.—Joan Moxey (Vice-Captain McPherson House), Colleen McKey (Vice Sports Captain), Margaret Aitchison (Sports' Captain), Lois Bartlett (Captain Swinburne House), Lorraine Fleer (Captain McPherson House).



#### HOCKEY TEAM

Back Row (left to right).—Margaret Rodda, Diane Whitelock, Dianne Beare. Middle Row.—Beverley May, Margaret Williams, Eleanor Smith, Barbara McLaren, Marion Lawson, Beth Pretty. Front Row.—Pat. Lynch, Colleen McKey, Margaret Aitchison, Erica Pigott, Marlene Willett.



#### SOFTBALL TEAM

Back Row (left to right).—Margaret Manders, Christine Frickle, Claire MacFarlane, Wilma Carse. Front Row (left to right).— Marjorie James, Lynette Bell, Lois Bartlett (Captain), Margaret Jackson, Jenefer Bowe.



#### SENIOR BASKET BALL TEAM

Back Row (left to right).—Esme Leitch, Vivienne Welter, Joan Maxey, Barbara Hatfield, Isabel Dunn. Front Row.—Ann Salvage, Elaine Poulton (Captain), Lynette Morgan.



#### PREFECTS 1955

Back Row (left to right).—Marjorie James, Lois Bartlett, Elaine Poulton, Erica Pigott. Front Row (left to right).—Leonie Thorpe, Judith Kennedy, June Hoffman (Head Prefect), Patricia Lynch, Sylvia Kennedy.



SWINBURNE GIRLS' JUNIOR SCHOOL, 1955



SWINBURNE GIRLS' JUNIOR SCHOOL, 1955

Wednesday was spent at Bogong, where we saw the Hydro-Electric Scheme in operation. That night we were asked if we would like to go down a mine. All of us, being adventurous, readily answered "yes". We made our way down the slippery track and came to the opening. The water at the entrance to the cave was three or four inches deep, but this did not dampen our spirits. We continued on and the water became deeper until we were wading up to our knees. When we reached the camp again we felt that we were cut off at the knees.

Mt. Buffalo was rather disappointing as it wasn't a very clear day; but we saw Lake Catani and had reasonably good views from the lookout.

On Saturday we were returning home via the Eildon Weir but, alas! to our disappointment, old "Genevieve" cracked up and so we were compelled to return to Melbourne from Wangaratta by train.

Mr. and Mrs. Bennett gave us particularly good meals, and Miss Lynch and Miss Lobb were grand sports throughout the trip.

COLLEEN McKEY,

PAT LYNCH,

Form 4AP.

### INTER-SCHOOL CHRISTIAN FELLOWSHIP

Early in the year, we were very sorry to hear that Miss Lukey was ill and would not be able to take us until second term. We missed the bright meetings and were glad when our leader was able to take us again.

At these meetings Miss Lukey took a series of talks based on Scripture Union notes. They were very interesting and helpful. Quite a few girls joined the Scripture Union and were given badges. The Scripture Union booklets give a portion of the Bible to read and a few notes explaining difficult parts.

We were very happy to see our numbers increasing. If you do not attend I.S.C.F., you are always welcome and I am sure you would enjoy it.

SYLVIA KENNEDY, 4A.

ADELE ROGERS, 4A.

### SOCIAL SERVICE NOTES

The girls this year donated very generously to the N.S.W. Flood Appeal. We have also contributed to the Austin Hospital and St. George's Hospital Building Appeal. Books are being collected for the Children's Homes.

## *The Open Door*

Each Friday money is collected by way of form competition. Many of the girls make toffee and honeycomb to help raise money. Consequently girls are found entering their classrooms with sticky hands and jaws locked together with stick-jaw toffee! We should like to give our thanks to Miss Kennell for her help this year.

E. POULTON.

M. JAMES.

### PREFECTS' NOTES

Early this year Mr. Tylee officially opened our new Prefects' Room and presented us with the key. This is the first year the Prefects have been able to have a room to themselves, and we hope that the girls in the years to come will appreciate it as much as we do.

During Miss Thomsen's absence this term we have endeavoured to give Miss Scott and the staff as much help as possible, and we hope to see her back next term.

Through Miss Lynch's and Miss Jeffery's helpful guidance we were able to act a short play for the Parent-Teachers' Association and the girls. We would also like to express our thanks to Miss Lynch for umpiring our basketball match against the Prefects of the Boys' School. The match caused amusement for spectators and injuries for players.

We wish to thank all those who made it possible for us to have our own room, also Miss Lynch and Miss Jeffery for helping us throughout the year.

JUNE HOFFMAN (Head Prefect).

### HOUSE NOTES

#### BLACKMORE

We have been running second for quite some time now but we hope to come up quickly and win the cup. We should like to congratulate Pridmore on winning the Swimming Sports. We are hoping to win the Athletics and are sure we have some new talent among the first form girls.

We are represented in the school teams by:—Hockey: B. Pretty, E. Pigott, B. McLaren, D. Beare, M. Willett. Basketball: E. Leitch, P. Watson, L. Senbergs. Softball: C. Macfarlane, M. James.

Our thanks go to Miss Martin and Mr. Cohen for their help throughout the year.

Don't forget your slogan girls, "Blackmore for Evermore" so pull up your socks and try to do even better.

MARJORIE JAMES, Captain.

LEONIE THORPE, Vice-Captain.

### McPHERSON

After successfully winning the shield last year we are trying to keep it again this year. We should like to thank Mrs. Spragg and Mr. Lambie for their help and encouragement throughout the year. We should also like to thank the prefects for their help.

We are well represented in the school teams this year.

Now that the exams are over we shall be able to start practising for the Inter-House sports. We think we stand a good chance of winning them.

Congratulations to Pridmore who are leading the field.

SO TRY HARD McPHERSON!

LORRAINE FLEER (Captain).  
JOAN MOXEY (Vice-Captain).

### PRIDMORE

"Hooray! We've won," was the cry of Pridmore girls as the wonderful day of exciting races, highlighted by close finishes, was brought to a grand final with Pridmore carrying away the Swimming Cup. The team did a grand job. We gained full points in four out of six team events and in addition, we won six single events. Lyn Bell came second in the diving.

We are well represented in inter-school sports teams:—Junior Basketball: Pat Smith, Lois Karthaus, Dorothy Brown. Senior Basketball: Dorothy Reid (V.C.), Lynette Morgan. Hockey: Eleanor Smith, Pat Lynch. Softball: Lynette Bell, Jenefer Bowe, Valerie Butt, Margaret Jackson.

We are very grateful to both Miss Lynch and Miss Jeffery for the wonderful way they have organised us as a house and kept it running smoothly.

Pridmore House is leading in the field of house marks. Blackmore is following too close for comfort. Remember girls, the other houses are trying hard!

PAT LYNCH (Captain).  
DOROTHY REID (Vice-Captain).

### SWINBURNE

Though we lost a few points at the beginning of 1955, we have now begun to climb the ladder and are well in the running for the lead. Swinburne is a very enthusiastic house, and we hope to do well in the inter-house athletic sports. We are well represented in the following teams.

Hockey: Margaret Rodda, Margaret Aitchison, Colleen McKey. Basketball: Thea Buys, Barbara Hatfield, Faye Dabb. Tennis:

## *The Open Door*

Barbara Chesterfield, Faye Castle, Marilyn Little, Beverly Cribbes.  
Softball: Lois Bartlett.

We are proud to say that the Sports Captain, Margaret Aitchison, and Vice-Captain, Colleen McKey, are in our house.

We should like to thank Miss Renshaw and Mr. Bode for their help and interest in our House this year.

LOIS BARTLETT, Captain.

ANGELA WESTERMAN (Vice-Captain).

## **SPORTS NOTES**

### **BASKETBALL NOTES**

At the beginning of this season our coach, Miss Lynch, was alarmed, because we did not have a basketball court. Our thanks go to Mr. Tylee, who made it possible to have a grass court at the Commercial School, and to Mrs. Rayner who marks the lines for us each week.

The senior team has won three matches and lost three. The junior team has lost two and won three. Each lunch time practice is arranged and with the help of the second team and the borrowing of runners we manage to play every day.

We would like to thank Miss Lynch who has coached us throughout the year.

ELAINE POULTON (Senior Captain).

FAYE DABB (Junior Captain).

### **HOCKEY NOTES, 1955**

#### **"THE EXPERIMENT OF HOCKEY"**

*Aim:* To learn the game and if possible win the match.

*Definition:* Hockey is a game played with sticks, ball and twenty-two players.

*Apparatus:* Hockey field, red flags, twenty-two players, one ball, twenty-two sticks, supporters and umpires.

*Method:*

1. Beth bullies and the forwards are off. She passes to Erica who passes to Barbara. She shoots for goal . . . and misses.

2. Now the ball moves up to the opponents' goal and they score.

3. Away the ball goes towards the opponents' goal once more. Colleen defends and passes to Pat.

4. The ball is hit towards a wing. Margaret Rodda retrieves it and centres. It is picked up by Beth, passed to Diane W., who scores.

5. The supporters cheer when we score a few more goals.

6. Diane B., our little goalie, stands shivering, peeping out from behind her huge pads.

7. Eleanor, our centre half, never lets the ball get past (aided by Marlene and Pat). The other team have to look out when our Captain Margaret hits the ball. The ball is sent right back to where it started.

*Result:* Bruised shins, sore ankles and complaints. Winning of game, thanks to the coaching of Miss Martin and Mr. Hulls.

*P.S.*—The team would like to thank Miss Martin and Mr. Hulls, the refreshment girls, time-keeper, scorer, and emergencies. Also the boys' team for the extra practice during the season.

MARGARET AITCHISON (Captain).

BETH PRETTY (Vice-Captain).

### SOFTBALL NOTES

Swinburne has started excellently this year by winning every game played. We are hoping to retain the cup again for the fourth year in succession. Softball is a very interesting and a most surprising game. Amazing things happen when a girl dives head first for a base, colliding with the base holder. Legs and arms shoot out in all directions in the tussle of getting there. The girls rise very gingerly from the ground, a startled expression on their faces—(What hit me ! ! ) The play then resumes.

Our thanks go to Mr. Cohen for coaching and umpiring our team. GOOD LUCK, GIRLS! Keep up the high standard!

LOIS BARTLETT (Captain).

MARJORIE JAMES (Vice-Captain).

### TENNIS NOTES

This year we have played six matches. We succeeded in winning three, we lost two and one match was drawn.

We are in second position, with Prahran first, Brighton third and Box Hill fourth. Our team consists of Marilyn Little and Lorraine Fleer as our first pair, and Barbara Chesterfield and Beverley Cribbes as second pair, with Faye Castle as emergency. We have also played the boys once this year. The match resulted in a win for the boys. We hope to challenge them again this year.

On behalf of the team we would like to thank Mr. Bode for the coaching and transport which he provided.

LORRAINE FLEER, 4A (Captain).

BARBARA CHESTERFIELD, 4B (V.-Captain).

## FENCING NOTES

For the first time in the Girls' Junior School a Fencing Club has been formed. About twenty girls have joined the club, and we are all very enthusiastic. Most of us already have our own foils and the school has supplied the face masks. We would like to thank Mr. Lambie, on behalf of the club, for his help and interest. We admire his bravery in introducing this sport to our school!

ANGELA WESTERMAN.  
C. KIRK.



FENCING CLUB

Back Rowe (left to right).—Helen Morley, Janice Hanger, Helen Markby, Patricia Meiers, Lynette Davis, Pamela Buys, Heather Cheyne, Prudence Prior, Christine Kirk, Barbara Brown, Lorraine Hanger, Lorraine Skinner, Faye Nelson, Shirley Millier, Sandra Allen. In Centre.—Angela Westerman, Elizabeth Davey.

## SWINBURNE INTER-HOUSE SWIMMING SPORTS

On the 10th March there was great excitement at the Kew Baths as our Inter-House Swimming Sports were being held.

There was keen competition from all the Houses with the results very close.

Congratulations must go to all competitors, and also to the winning house, Pridmore, who put up a grand show.

Results were: Pridmore, 136½ points; Blackmore, 110 points; Swinburne, 80 points; McPherson, 55½ points.

## INTER-SCHOOL SWIMMING SPORTS

At the Olympic Pool on the 25th March, the inter-school sports were held.

Although we were not as successful as last year, the girls tried their best and won the Junior Cup.



(photo by Courtesy of "The Sun")

COMPETITORS IN THE COMBINED SWIMMING  
SPORTS AT THE OLYMPIC POOL, MARCH 224th, 1955

Left to Right.—Lois Karthaus, Mary Small, Gael Woodger, Betsy Pitman, Marilyn Powell, Ann Salvage, Margaret Manders, Lynette Bell.

Our congratulations go to all the team, especially Lynette Bell (C.), Erica Pigott (V.C.), Barbara MacLaren, Eleanor Smith, Irene Johnson, Margaret Manders, and Gael Woodger.

The swimming team would like to thank Mrs. Rayner and Miss Lynch for their coaching. We hope that next year the team will bring home all the cups.

M. AITCHISON (Sports Captain).  
C. McKEY (Vice-Captain).

## FORM NOTES

### IAB

The IAB's are working well.  
We learn to sing, we learn to spell,  
We learn to draw, we learn to sew,  
And other things that girls should know.

We're gaining form marks steadily,  
And losing them as readily.  
The picture's sometimes in our room,  
And if it's not, there's general gloom.

The girls are good at acting plays,  
And this we do on various days.  
Our singers too we love to hear,  
Their voices are so sweet and clear.

So this is good-bye till next year,  
I hope we all shall still be here.  
And now you've met forms 1AB,  
Two happy forms as you can see.

MARGARET BROWN, 1A Captain.  
ROBYN KENNEDY, 1B Captain.

### 1CD

We are the first formers of 1CD.  
Quite new to Swinburne as you see.  
Each group has something proud to show  
In this school magazine you know.  
Dressmaking and art we like the best  
We hope our aprons will pass the test.  
But to continue with our little rhyme,  
We are very good, half of the time,  
Although we really hate to mention,  
Some of us have been to detention.  
And now you've met forms 1CD,  
Two happy forms as you can see.

C. PLANT, 1C.  
V. BOMBARDIER, 1D.

### 2AB

We're the girls of 2AB,  
A happy form are we.  
We're always into mischief  
Wherever we may be.

We're not too bad at all our work;  
We like 'most every subject.  
A few of our crimes we'd rather not mention,  
In case we're given a detention.

We've won the picture once or twice  
Because the teachers thought us nice.  
And now you've heard our little poem  
Pack your books and all go home.

LOLITA SENBERGS.

HELEN MORLEY.

### 3A — PROFESSIONAL

**3** is for 3rd form, the best we try to be,  
**A** is for "Angels", seven are we,  
**P** is for "Profs", we aim someday to be,  
**R** for Report, which is not for us to see.  
**O** is for Outings, which fill us full of glee,  
**F** is for Fricke, our captain we're pleased to tell,  
**E** is for English, though we do not excel,  
**S** is for Science, which we do rather well.  
**S** is for Sewing, we make a good seam,  
**I** is for Imps, we make a good team,  
**O** is for Order-marks, we simply spurn,  
**N** is for Notes, we take down to learn.  
**A** is for Algebra, good at it we try to be,  
**L** is for Lorraine, our Vice-Captain is she,  
**S** is for Swinburne, where the best form is 3AP.

CHRISTINE FRICKE, Captain.

LORRAINE COUTTS, Vice-Captain.

### 3AB

Success has not been all our way,  
For brains we lack, we're sad to say.  
Though homework sometimes isn't done,  
We always seem to have some fun.

We are not very good at poetry, so we refer you to the facts below:—

This year we have 33 girls in our forms. Our form mistresses, Mrs. Davidson and Miss Jeffery, have helped us considerably during the year. Our form captains are Heather Cheyne and Lynette Walker. We would very much like to thank the teachers who have taken us on the many interesting excursions we have had.

We also want to say how sorry we are to have had so many members of staff sick.

Best wishes to all the girls who will be leaving us this year.

HEATHER CHEYNE, 3A Captain.

LYNETTE WALKER, 3B Captain.

### 3CD

On behalf of the forms we would like to thank Mrs. Rayner and Mr. Bode, our form mistress and master, and also the teachers who have helped us considerably throughout the year.

We have a few representatives in the school teams, namely: Marlene Willett, Diane Whitelock (hockey), Esme Leitch, Isabel Dunn (basketball), Valerie Butt, Lynette Bell (softball), Jannene Doherty (fencing).

We have just finished the half year exams, and most of our results are satisfactory.

We have had two outings this year, one to the Industrial Fair, the other to an Orchestral Concert. These outings have helped to give us a happy and interesting year.

DIANE WHITELOCK, 3C Captain.

LAURELLE MOLLISON, 3D Captain.

### 4AP

This year we are continuing in our special studies of Mathematics and Science. We welcome a new member, Marie Tidd, who increased our numbers to eleven. We have just received our examination results and some of us are wondering whether we ought to be doing this course after all. Amongst us there are students who hope to be Nurses, Chemists, and Teachers, but we feel that this is still a long way off.

We would like to thank Mr. Lovitt and Mr. Budge, our Mathematics and Science teachers, for their help in the past two years.

M. Aitchison (capt.), M. Lawson, P. Lynch, B. May, C. McKey, E. Pigott, B. Pretty (v. capt), M. Tidd and M. Williams are in the hockey team. M. Little is in the tennis team.

MARION LAWSON, Captain.

BETH PRETTY, Vice-Captain.

### 4A — GENERAL

First of all we must thank our form master, Mr. Lambie, for looking after us and helping us with our Maths. and troubles. We hope Miss Thomsen will be back with us soon.

We have been on an excursion for Social Studies to the Hawthorn Council Meeting. It was very interesting and we want to thank Mrs. Spragg, and we hope we can go on some more during the year.

There are 13 girls in our form, most of whom are House Captains, Prefects or girls who represent the school in various teams.

We are all very scatter-brained but have moments of inspiration and, when it is time for work, we try to settle down and work for the exams, to make the form average higher.

ADELE ROGERS, Captain.

LORRAINE FLEER, Vice-Captain.

4B

4B consists of twenty-five scholars,  
All of us choked by ties and starched collars,  
"Girls be quiet", is the entreat,  
As we enter a class-room to take our seat.  
To Mr. Hulls we give our thanks,  
For patiently dealing with all our pranks.

We are 1955's 4B Commercial girls. There are five Prefects in our form — Elaine Poulton, Marjorie James, Lois Bartlett, Judith Kennedy and the Head Prefect, June Hoffman.

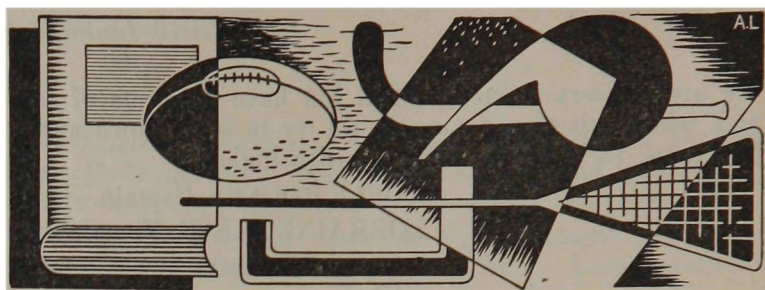
Every lunch-time Elaine, who is the senior basketball captain, rushes around frantically looking for the six girls from our form to make them practice, but somehow she never seems to find them. We also have two girls in the hockey, two in the tennis, two in the softball teams, and three in the fencing team — our "Three Musketeers!"

Finally, we give our thanks to all the teachers for patiently putting up with us and especially to Mr. Hulls who, as our form master, has given us so much help throughout the year.

WENDY GRIFFITH, Captain.

DOROTHY REID, Vice-Captain.





## BOYS' JUNIOR SCHOOL

### INTERMEDIATE TECHNICAL SCHOLARSHIPS FOR 1955 BOYS

KURZEME, Marcis  
McALPIN, Alfred D.  
HOSE, Ronald M.  
CRAIGIE, Peter J.  
MOORHOUSE, Robert T.  
SOWERBY, Harvey J.

McPHERSON, Barry G.  
WARD, Graeme S.  
MEGGS, Robert C.  
FYFE, Peter R.  
WILLIAMS, William J.

### SENIOR TECHNICAL SCHOLARSHIPS

DOYLE, B. A.  
DOWNEY, K. E.  
STANISICH, D.

TYSON, G. (Transferred to Royal  
Melbourne Tech. College; also won  
a State Savings Bank Scholarship).

WOODLEY, J. R.

(Obtained a Scholarship to Southampton College of Navigation).

### LIEBECH SCHOLARSHIPS

STANISICH, D.

### INTERMEDIATE TECHNICAL CERTIFICATE, 1954

4A

DOYLE, B. A.  
DOWNEY, K. E.  
OLVER, K. F.  
BEAUMONT, G. L.  
JONES, M. K.  
BROWN, T. W.  
ELKSNIS, I. J.  
LINDSAY, A. V.  
LIM JOON, Ian G.  
ELMS, L. D.  
BIRKETT, A. G.

STAMFORD, R. M.  
STEELE, R. A.  
DANIEL, A. H.  
DENNEHY, I. G.  
WILLIAMS, B. I.  
GLASSFORD, R. J.  
LAYTON, John L.  
WOODLEY, J. R.  
BESNARD, J. G.  
SHAW, D. H.  
TREAGUS, R. D. C.

4B

STANISICH, D.  
LILLEY, W. A.  
AUSTEN, H. L.  
TYSON, G. R.  
DEWAR, N. K.  
HERBERT, C. G.  
MACLACHLAN, B. J.  
WORCESTER, R. T.  
BAYLISS, R. M.

CHANDLER, C. J.  
MAIER, V.  
CHUGG, B. W.  
ASHDOWN, K. W.  
GOVETT, A. C.  
MAJOR, R. A.  
SCOTT, I. H.  
RICHARDSON, S.  
BRUDENELL, E.

4C

COMEADOW, Graeme  
BIRD, J. E.  
LLOYD, N. F.  
HARE, Rodney  
STALEY, D. G.

NEIL, I. A.  
SELLER, R.  
BAIL, G.  
CLEVELAND, B. E.  
CLEAR, A.

### PREFECTS' NOTES

Our members have been increased from six to ten this year to enable us to undertake extra duties; these duties keep us rather busy but we manage to find some spare time for such pastimes as Table Tennis and Drama Club. As yet, we have not been allocated a permanent Prefects' Room, but are "camping" in temporary quarters, and are hoping that we may see the establishment of a permanent abode.

We are grateful that our suggestions have been adopted, allowing closer co-operation with the Girls' School; and members of staff in our own school and the boys of the school, feel that we have made some progress in this respect.

We would like to thank Mr. Lascelles for his advice and help throughout the year and also to thank Mr. Iverson for his close co-operation with us.

E. SMITH (Head Prefect).

Prefects for the year are: Eldon Smith (head), D. McAlpin, I. Murray, J. Waters, J. Smith, E. Chaplin, E. Beadle, L. Morrow, J. Roach, P. Fyfe.

Thanks, boys, for many helpful suggestions and much good work and assistance to the staff.

E. LASCELLES.

### SOCIAL SERVICE ACTIVITIES

Every Friday morning a collection is taken in the schools, the money raised being devoted to charitable institutions, especially those interested in caring for the under privileged and handicapped children. The aim is to interest the students in those in the com-

## *The Open Door*

munity who are less fortunate than themselves, and to encourage a sense of responsibility.

Occasionally, special appeals are made for a specific object, such as the N.S.W. flood relief or the hospitals' egg collections. These always bring a response. Last year the egg appeal totalled £25, while early this year the sum of £105 was handed to the Mayor of Hawthorn for transmission to the Lord Mayor of Melbourne's fund for the relief of distress in N.S.W.

At the end of each year the balance in hand is distributed to a number of institutions catering for children. The following is a list of such charities:—

Bush Church.  
Blind Institute.  
Methodist Babies' Homes.  
Melbourne Orphanage.  
Home of St. James and St. John.  
Burwood Boys' Home.  
St. John's Home for Boys.  
Yooralla School for Crippled Children.  
Free Kindergarten Union.  
Spastic Children.

It is worthy of note that the boys are rarely asked to appeal to their parents for money for the collections. Indeed, it is emphasised that we wish to make this matter essentially personal to the students themselves. We feel that it is better for every boy to give a small sum than for a few to donate more than their share.

In 1953 the total amounted to £125.

In 1954 the total amounted to £135.

This year the total today is £145, already a record.

A. JOHNSTON.

## EXCURSIONS

This year the boys have been on a variety of excursions. Some have been cultural in nature and others have been concerned with Social Studies, English and Science. Some of these excursions were:—

### *Children's Theatre:*

In February the Junior Boys went to a performance of Ballet Dancing in the Hawthorn Town Hall, and thoroughly enjoyed their introduction into the art of the ballet.

### *Merchant of Venice:*

The Fourth Form boys went to see the Merchant of Venice at the National Theatre. For many it was the first play that they had seen, and all enjoyed William Carr as Shylock.

*Orchestral Concerts:*

Various forms have visited the Melbourne Town Hall during the year and have enjoyed the special Orchestral Concerts given for children.

*Navy:*

Early in the year, Form III. boys visited the Aircraft Carrier "Vengeance". The boys were shown over the carrier and saw for the first time many of the secrets of these big ships. The trip was enjoyable and profitable.

*Australian Industries Fair:*

All forms in the school visited this most important exhibition. It afforded a wonderful opportunity to study Australian industries, and the boys not only found the trip enjoyable, but a very profitable one as well.

*Altona Refinery:*

The senior boys visited the oil refinery at Altona and had the opportunity of studying a very important development in the oil industry in Australia. This was a very profitable trip.

*Eildon Reservoir:*

The senior boys visited the Eildon Reservoir as part of their study on irrigation in Victoria, and the problem of water conservation. The State Rivers and Water Supply Commission provided two engineers who conducted the boys round and explained the nature and purpose of the many constructions. The Spillway, Hydro-electric power house, the dam wall, the holding pond and laboratories were among the parts visited on this enormous undertaking. It was a long trip but well worth it.

*Narbethong:*

The Third Forms visited the State Forestry Nursery at Narbethong and saw at first hand some of the efforts being made by the Forestry Commission to replant our forests.

*Special Excursions:*

In addition to the above excursions, small groups of boys in Forms III. and IV. have visited a large variety of factories and public offices in connection with their Social Studies work. This has given the boys the opportunity of gaining first-hand information and has also, in a practical way, helped the boys to find information for themselves.

## LIBRARY

An important development in the Junior School this year has been the re-organisation and expansion of the library. The tedious tasks of classification, lettering, preparation and analytical cataloguing, have been well repaid by the noticeable increase in interest

## *The Open Door*

displayed by boys and staff alike. Most impressive has been the very obvious improvement in many boys' reading habits. This is the hopeful feature — that in such a short period of time so many boys should come to discover that there is something far more amusing, more interesting, more exciting and more valuable than comics — BOOKS! Weekly library periods for each class have not only provided opportunities for the development of this interest but enabled boys to receive invaluable instruction in the techniques of using a library for reference. The success of this primary aim has been evident in the intelligent use of the Senior and Hawthorn libraries by fourth formers. To meet the expanding role of the library more and more books — both reference and fiction — are urgently required. Several persons have kindly contributed books but there is still a great deal of space on the shelves that could be filled. We would be pleased to receive books and especially contributions of money from any interested persons.

Throughout the year, many of the general duties associated with library activities have been efficiently carried out by these boys — P. Jackman, W. Williams, R. Moorhouse, B. Rodhouse. They deserve the thanks of all who have used these facilities.

With proper encouragement, there is no reason why the library should not rapidly become the centre of the boys' school work, an important source of intellectual and emotional development and a special feature of which the school could be rightly proud.

K. E. INGRAM.

### CAMERA CLUB

We are the members of the Camera Club — Plato 4b, Mills 4d, Reid 3c, Toypan 3c, Padgum 3c, Wright 2r, Richardson 2r, Mitchell 2b, Jenkins 2b. We have had a good time this year and we take photographs anywhere, anytime.

At the beginning of the year, Mr. Tylee took us on an excursion to Mount Macedon, Bacchus Marsh and Werribee Gorge. We took some wonderful photos on this trip and were allowed to use the dark room in the Chemistry School for developing them.

We are very interested in our Club, and we all feel that we have a hobby that will retain our interest for many, many years.

V. PLATO.

### CHESS CLUB

The Chess Club opened this year with the kind donation of five chess sets from the school. One set immediately disappeared and we suspect it is in the lower Staff Room.

The club's new members have learnt the game quickly and are now masters of strategy. All members have enjoyed the



#### PREFECTS, 1955

Back Row.—D. McAlpin, E. Beadle, J. Waters, L. Morrow, P. Fyfe, J. Roach, J. Smith.  
Front Row.—E. Chaplin, E. Smith (Head), I. Murray.



#### HOUSE CAPTAINS

Back Row (left to right).—G. Welsh, B. McPherson, E. Chaplain, R. Tuttle. Front Row.—I. Wing, J. Boyce, J. Roach, E. Beadle.



#### UNDER 14 FOOTBALL TEAM

Back Row.—R. Watson, A. Burton, R. Sheedy. Centre Row.—R. Murray, T. Coyne, T. Dudgeon, T. Moule, L. Ashdown, W. Cummings, N. Rule, M. Forsyth. Front Row.—A. Ingham, I. Hooper, A. Skinner, Mr. J. Tate, I. Spicer, J. McFarland, J. Scascighini, C. Brownhill.



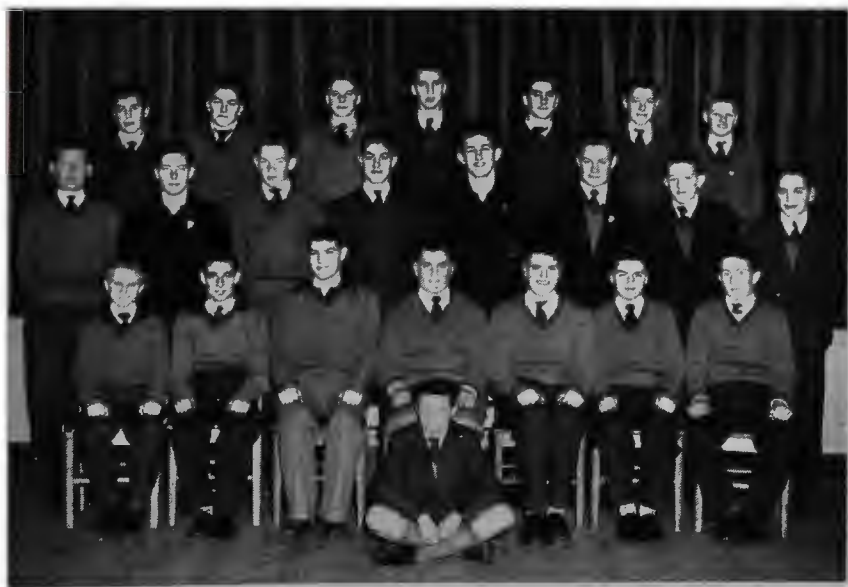
#### SWINBURNE FIRST EIGHTEEN

Back Row.—J. McCracken, W. Nash, R. Wilkinson, G. Simon, R. Phillips. Second Back Row.—G. Welsh, B. Carey, B. Dunlevi, E. Smith, P. Turton, E. Chaplin, J. Waters, R. McLintock. First Row.—K. Smart, A. Worley, J. Roach (V.C.), Coach: Mr. Ingram, J. Smith (C.), M. Huckerby, M. John. Front Row.—J. Hopkinson, C. Kercher.



#### SOCCKER TEAM

Back Row.—A. Rickerby, C. Bartholemeuz, C. Lightfoot, A. Fletcher, V. Plato, W. Gardner, R. McFadzean, V. Robinson. Front Row.—C. Metafis, C. Farley, Mr. Johnston, T. Beales, D. Wynne.



#### SWIMMING TEAM

Back Row.—P. Gill, D. Williamson, G. Porter, R. Cupples, R. Woodroffe, K. Tebart, R. Bower. Centre Row.—A. Schneller, J. Waters, G. Heward, G. Ward, E. Smith, P. Fyfe, G. Simon, G. Bergen. Front Row.—J. Scassiahini, T. Coyne, G. Nash, G. Page, D. Macklewaime, J. Garbers, K. Barton, I. Blythe.



#### HOCKEY TEAM

Back Row (left to right).—K. Taylor, D. Phillips, P. Heilser, R. Gully, R. Gully, J. Crocker, J. Boyce, C. Evans. Front Row.—B. Lewis, R. Bradley, S. Edwards, K. Powell, N. Evans.



#### LACROSSE

Back Row (left to right).—R. Bassett, D. Norman, D. Bruce, P. Fiander, R. Dawson. Front Row.—E. Nicholls, J. Fallu, V. Beames, A. Habour, D. Williamson.



#### FORM CAPTAINS

Back Row (left to right).—J. Boyce, P. Fyfe, J. Waters, D. McAlpin. Third Row.—G. Preston, C. Bowman, R. Mariner, D. Wynne, B. Sanger, B. Ward. Second Row.—E. Kent, C. Kurcher, J. Jameson, D. Orwin, I. Hooper, D. Lyons. Front Row.—D. Gude, G. Knowles, C. Moutafis, G. Halford, R. Sprague, N. Millard.



#### BASEBALL TEAM

Back Row (left to right).—I. Wing, K. Barton, A. Schneller, K. Bray. Centre Row.—T. Donohue, M. Brown, M. Kurzeme, D. Roach, L. Deal. Front Row.—G. Roberts, F. Wood, B. Lee, W. White, R. Annuls.



#### JUNIOR FIRST XI CRICKET TEAM

Back Row.—J. Semmens, K. Smart, D. Roach, V. Beanes, B. Macdonald, G. McIver.  
 Second Row.—L. Silver, J. Smith, J. Roach (Capt.), A. Worley, A. Burton. Front  
 Row.—C. Brownhill.



#### TENNIS TEAM

Back Row (left to right).—J. Semmens, J. Holland, P. Seal, G. Tamas. Front Row.—  
 L. Morrow, I. Murray.



SWINBURNE BOYS' JUNIOR SCHOOL, 1955



SWINBURNE BOYS' JUNIOR SCHOOL, 1955

pleasures of playing chess in the cosy warmth of R1, while the bitter winter winds blow outside.

On behalf of the club I wish to thank both Mr. Barber for his help and guidance, and Mr. Keane for putting up with us in R1 every lunch time.

P. HEISLER.

### DRAMATIC CLUB

The Junior Boys' School has formed a Dramatic Club and has had a number of play readings. The club is preparing for a play to be performed at a social evening, conducted by the Parent-Teachers' Association.

Prominent members of the club are: V. Plato, V. Heisler, M. Kurzeme, A. Schneller, P. Cossins, B. Lee and E. Aston.

### MAGIC CLUB

We are the members of the Swinburne School of Magic. There are twelve of us and we are learning the art of magic at the feet of the Master Magician, Mr. Braunstein. Every member has been carefully examined to ensure that no one unworthy of our noble art will be given the opportunity of using its power for evil purposes. No — we do not wear top hats and cloaks because we wish to remain unseen and unknown.

Later we may give one public presentation and demonstrate the results of pursuit into the realm of magic.

L. RUSSELL.

### ROYAL SHOW RIDING CUP

Too late for mention in "The Open Door" for 1954, a Swinburne Junior School first-year boy took a first prize at last year's Royal Agricultural Show. The silver cup for boy riders 12-15 years was won by Trevor Casemore, then aged 13 years.

The test, which lasts the best part of an hour, puts boy and horse through the walk, trot, figure-8 canter and a 200-yard gallop pulling up dead. Some fifty entrants came from various parts of Australia.

Since the age of seven, Trevor has been a riding pupil of his cousin, Miss Pauline Casemore of Fern Tree Gully. Last year his sister Yvonne was a member of the winning group in the girls' team event. Brother and sister are again competing in the same events this year.

## HOUSE NOTES

### BATMAN HOUSE

Again this year our House is doing well. In the Swimming Carnival we were defeated by a narrow margin by Flinders, and in the other sports our House has done well.

Representatives in school teams are:—

*Football*: Welsh, Waters, Kercher.

*Baseball*: Roberts, Wing.

*Cricket*: McIvor, Silver, Brownhill.

*Hockey*: Oldmen.

*Lacrosse*: Bassett, Beames.

*Swimming*: Page, Blyth, Sealey, Tabart.

*Soccer*: Fletcher, Lightfoot.

We would like to thank our house master, Mr. Johnston, and Mr. Braunstein and Mr. Maskiell, for their help and guidance throughout the year.

I. WING (Captain).

G. WELSH (Vice-Captain).

### COLLINS HOUSE

We have been a very happy House this year although we have not won very many matches. At the swimming carnival our team did well and were defeated only after a hard battle.

In the other House matches we seem to be destined to maintain third position despite our efforts to defeat the others. Nevertheless we are well represented in school teams. The players are:—

*Football*: Smith, Carey, Smart, Simmons.

*Cricket*: Smith, Simmons, Smart.

*Lacrosse*: Harbour, Fallu.

*Baseball*: Kurzeme, Bray.

*Football, Under XIV*: Spicer, Murray, Coin, Skinner, Brownhill.

We would like to thank Mr. Cant and Mr. Pittock, our house masters, for their help throughout the year.

J. BOYCE (Captain).

M. KURZEME, (Vice-Captain).

### HENTY HOUSE

Henty House has continued to have bad luck, but this is only in results because our spirit is excellent.

In the swimming sports at Glenferrie our efforts should not be measured by the points we achieved.

Under our captain, De Carteret, the House football team has done well this year. This improvement will probably be fully felt next year. At least we hope so.

We are represented in the school hockey team by N. Evans, R. Gully, B. Lewis, L. Freeman and P. Heisler.

In the baseball we are represented by B. Lee (captain), R. Annals and A. Schneller. Now in its second year this team has provided strong opposition.

We are also represented in the School soccer and lacrosse teams.

On behalf of the Henty boys, I would like to thank our house masters, Mr. Murray, Mr. Ingram and Mr. Deal, for their interest in the house activities.

E. B. BEADLE (Captain).

R. TUTTLE (Vice-Captain).

## FLINDERS HOUSE

For the last two years, Flinders has won the House Shield and again this year we have done very well and at present we are leading. We began the year well by winning the Swimming Shield, after a close and exciting contest. In addition our cricket and football teams have won many matches.

We are well represented in the school teams as can be seen below:—

*Football:* Chaplin, Hopkinson, Nash, Huckerby, Whitehouse, Phillips, Roach.

*Cricket:* Roach.

*Soccer:* Bartholomeusz, Moutafis.

*Swimming:* Nash, Fyfe, Cupples, Porter.

*Lacrosse:* Williams, Pretty, Fiander.

*Baseball:* Brown, White, Roberts, Barton.

This year four prefects, Chaplin, Fyfe, McAlpin and Roach, are from our House.

We have great hopes for the Athletic Sports and the three-mile run.

Our House wish to thank Mr. Barber, Mr. Lascelles, and Mr. Keane for their help and encouragement throughout the year.

J. ROACH (Captain).

E. CHAPLIN (Vice-Captain).

## SPORTS NOTES

### SWIMMING

The Inter-House Swimming Carnival was held at Hawthorn Baths on Wednesday, March 9th. The contest proved to be one of the closest on record. Final points: Flinders 79, Batman 75, Collins 66, Henty 60.

Fine individual performances were put up by: D. McIlwain, O Zarins, I. Hanlon, G. Dyer and R. Woodroffe.

The Inter-Technical Annual Swimming Carnival was held at Olympic Pool on March 29th. Although Swinburne had a very good team, Richmond proved much too strong for all the other schools, winning the competition very easily.



JUNIOR GYMNASTS

## ATHLETICS

The Inter-Technical School Athletic Sports were held at Glenferrie Oval last October. This year there will be a different system for staging the sports. South Melbourne Cricket Ground will be the venue, and the sports will be held on Monday, October 10th, Monday, October 17th, and Tuesday, October 18th.

A new programme has been framed with several new events such as Throwing the Discus, Long Jumps, Hop, Step and Jump, 440 yards and 1 mile.

## INTER-STATE SELECTION

Congratulations to Marcus John (3B) who for the second year in succession has gained selection in the Victorian School Boys' Football Team. Last year Marcus visited Sydney and this year left for Adelaide on August 10th to play in the Inter-State School Football Carnival. The team returned on August 27th.

## CRICKET

At the conclusion of last year, the annual cricket match between the Staff and Students was played at the Glenferrie Oval.

The Students, batting first, were soon in trouble against the bowling of Mr. Watson and Mr. Cant, who soon had Roach and Worley out. The Staff, using a varied attack (10 bowlers), soon had the boys out for 96. Best score was Smith, 18.

The Staff opened well and the first three batsmen made 88 between them (Mr. Tate, 48). However, the rest of the Staff were soon out, all being dismissed for 121, and thus winning the match.

The first inter-school competition match was against Jordanville. Swinburne, batting first, declared at 7 for 151. Jordanville, in reply, could only manage 79.

The next match was against the very strong Box Hill side. Box Hill declared at 3 for 169, and in reply Swinburne could only manage 58.

In the final match against Fern Tree Gully we won very comfortably by 58 runs.

Therefore we won two out of three matches. Best performances were Smith, 48 and 30; Beames, 29 not out, and Smart, 4 wickets for 7 runs.

We would like to thank Mr. Baxter for his help throughout the year, especially for his help to the younger players. JOHN ROACH.

### FOOTBALL — 1st EIGHTEEN

Strengthened by a handful of players from last year's premier-ship team, the 1st eighteen commenced this season with a strong rather than brilliant line-up. Again the emphasis was on speed in movement and disposal. Prior to the first training match, John Smith was elected captain, and John Roach vice-captain. Only four practice matches could be arranged, all resulting in good wins for Swinburne.

Swinburne d. Collingwood, 9.11.65 to 4.9.45.

Swinburne d. Richmond, 14.8.92 to 3.9.27.

Swinburne d. Prahran, 21.15.141 to 1.2.8.

Swinburne d. Brighton, 17.14.118 to 0.4.4.

Following these victories the team entered the Technical Schools' Competition with quiet confidence in its ability.

### TECHNICAL SCHOOLS' COMPETITION RESULTS

15/6/55: Box Hill, 8.14.62 d. Swinburne, 8.13.61.

22/6/55: Swinburne, 17.24.126 d. Fern Tree Gully, 3.1.21.

29/6/55: Swinburne, 20.17.137 d. Jordanville, 3.3.21.

6/7/55: Swinburne, 12.12.84 d. Box Hill, 8.10.58.

13/7/55: Swinburne, 14.25.109 d. Fern Tree Gully, 2.2.14.

20/7/55: Swinburne, 23.16.154 d. Jordanville, 3.3.21.

#### *Zone Final:*

27/7/55: Swinburne, 7.7.49 d. Box Hill, 3.15.33.

#### *District Semi-Final:*

3/8/55: Swinburne, 12.10.82 d. Oakleigh, 7.8.50.

#### *Second Semi-Final:*

10/8/55: Swinburne, 10.4.64 d. Footscray, 6.11.47.

## *The Open Door*

### *24/8/55: Swinburne v. Footscray, Grand Final—*

Because of a cloudburst at Richmond, the game was transferred to Caulfield. A strong northerly wind was favouring one end of the ground. Winning the toss, Swinburne endeavoured to take advantage of this wind to open up a handy lead. Carey led out well to mark cleanly and bring up full points. But Footscray seemed more determined than Swinburne and their players went in to get the ball with vigour. They attacked strongly but were able to register only a point. Swinburne seemed to be over-confident and poorly executed attacks broke down against the Footscray backs. Eric Chaplin and Max Huckerby led the Swinburne back line to turn back several promising Footscray moves. The quarter ended and Swinburne had not achieved their aim — a failure which turned out to be decisive.

Quarter time scores: Swinburne, 2.3.15; Footscray, 0.1.1.

Footscray took full advantage of the wind. Their rucks were winning at this stage and they maintained constant pressure on the scoring end. Despite the fact that they managed to score five goals in this term, the Swinburne backs were playing well. On two occasions Swinburne managed to drive the ball up the ground against the wind but misdirected kicking at goal brought up only two points. Footscray were jubilant at half time when they came off the ground with a very handy lead.

Half-time scores: Swinburne, 2.5.17; Footscray, 5.5.35.

Swinburne looked the better side after the break. More life appeared in their play but the Footscray back line was powerful. They had many key players well covered and by stacking the defence area were able to smother many attacks. The half forwards were unable to break away and were often caught in possession. At three-quarter time Swinburne had still not wiped off their deficit.

Three-quarter time scores: Swinburne, 3.8.26; Footscray, 5.5.35.

The task looked difficult, but Swinburne rallied to the job. Turton and Wilkinson were in the ruck and every player lifted his game. Only nine points separated the teams as the ball was rushed around the flanks and Roach kicked for goal to see the ball touched on the line. Swinburne attacked again only to be driven out at the last line. Chaplin was all over the field and could not be stopped. Twice Huckerby broke away and ran sixty yards to initiate Swinburne attacks. But Footscray could not be held and again they goaled. They had proved themselves the better team on this occasion and ran out comfortable winners to take the 1955 premiership. Swinburne had done very well to be runners-up.

Final scores: Swinburne, 3.9.27; Footscray, 6.10.46.

Swinburne Football Eighteen, 1955: J. Smith (c), J. Roach (v.c.), E. Smith, R. Phillips, B. Carey, P. Turton, R. McLintock,

J. McCracken, G. Welsh, A. Worley, W. Cummings, K. Smart, D. Roach, J. Hopkinson, J. Waters, K. Kercher, W. Nash, B. Dunlevi, E. Chaplin, R. Wilkinson, M. John, M. Huckerby.

### HOCKEY

Owing to the expert coaching given to us by Mr. Hulls, we have become accustomed to the rules and regulations of hockey, and we are endeavouring to execute them as best we can.

Our thanks go to Mr. Hulls for coaching us in his spare time.

We would especially like to thank the girls for their help, encouragement, assistance and co-operation in giving us opportunities for practice matches.

STANLEY EDWARDS.

### LACROSSE

This year the lacrosse team has been fortunate in getting the use of Malvern's lacrosse ground to play on. The first three weeks of the season we were coached by John Heathcote, captain of Malvern Reds and Victoria's "A" grade team. Although we have some first year players in the team we have found a good player in Doug. Williamson. We have defeated Williamstown High School 12-1, Caulfield Tech. 15-10, and got a walk-over from South Melbourne Tech. However, we have been defeated by Melbourne High School 10-3, and University High School 26-1.

V. BEAMES, Captain.

### SOCCER

Although the soccer team did not win the championship this year it had a very successful season, losing only one competition game. One of the reasons for this was that, in the main, the team was able to take the field practically unchanged from week to week. Beales, the captain, and Farley were the outstanding players, while the defence of Plato, Lightfoot and Moutafis was strong, allowing only five goals to be scored against it. Macfadzean and Wynne, assisted by Bartholemeusz, supported the backs in good style, showing great improvement during the season. Each of the other forwards, Fletcher, Robinson, Gardner and Rickerby (a first year boy) was always a source of possible danger to opponents, without which threat the work of the defence would have been made more difficult.

We were fortunate to have the use of a full sized ground at Burnley, by permission of the Richmond Council. Thanks are also due to Mr. Hadfield who came along to referee our home matches.

A.J.

### FORM NOTES

4A

"Hello there," this is 4A calling from our headquarters in R4.

## *The Open Door*

There are twenty-five of us — all rather good looking(?). We have artists led by R. Bradley and students of aeronautics. In the sports teams we are represented by no less than fourteen boys. In addition there are several prefects in our form — Murray, Morrow, McAlpin and Beadle. B. Lee has developed into a prominent drummer and excelled himself at the School Social.

We all wish to thank our subject-teachers for all they have done for us, and especially Mr. Pittock, our Form Master and Science Teacher, for his help and guidance. (He calls Science "Rubbish", and we're all inclined to believe him).

D. McALPIN (Captain).

E. BEADLE (Vice-Captain).

### 4B

From our cheery form of Swinburne boys in 4B comes these words: "Thank you, Mr. Keane", for he is our form master and has been a great help to the boys this year.

Half our form are represented in the Football, Cricket, Hockey, Soccer, Baseball and Swimming teams. We have three prefects: E. Smith (head), J. Roach and J. Waters.

Many of our boys are table tennis enthusiasts and have conducted competitions. Some, of course, try to practise after the bell.

Many do not know that V. Plato is an ardent jazz enthusiast and recently on a trip to Eildon entertained the boys by playing on instruments of his own designing.

J. WATERS (Captain).

J. ROACH (Vice-Captain).

### 4C

Our form consists of fifteen boys — future plumbers, turners and electrical wirers. We have two prefects — Chaplin and Smith — to keep us in order.

We are proud that many of our form are regular players in the school teams.

Finally, we wish to thank Mr. Johnston, our Form Master, for his interest in us throughout the year.

K. TOOTELL (Vice-Captain).

J. BOYCE (Captain).

### 4D

We are a happy group of fellows in 4D. Some of us study art while others bend nails. We are proud to claim representatives in most of the school teams. In addition we have a House Captain and two Vice-Captains.

We would like to thank Mr. Clark, our Form Master, for his help during the year.

PETER FYFE (Captain).

BOB TUTTLE (Vice-Captain).

3A

Our form basks in the reflected glory of Jones (100% for Solid Geometry) and Purdy (100% for Maths). Worley is in the first XVIII. and Lewis and Evans play hockey. Several play soccer. Many have hobbies as well. We are well represented in the aero-plane club and chess club.

We wish to thank Mr. Murray, our Form Master, for all his help.

E. PRESTON (Captain).

A. WORLEY (Vice-Captain).

3B

We range from "Lamp-post" Dyer to "Tiny" Greer and we are honoured to have in our midst "Professor" Peter Donellan, the noted scientist. Every Friday Sheedy, Skinner and Brownhill argue about football. We are represented in Football, Lacrosse and Rugby.

We wish to thank our Form Master, Mr. Ferguson, for all his help throughout the year.

C. BOWMAN (Captain).

R. SHEEDY (Vice-Captain).

3C

We have settled down to work this year despite the fact that some people call us "The clots". We, too, can claim representatives in the Football, Soccer, Lacrosse, Cricket and Swimming school teams. Not bad, are we?

We would like to convey our gratitude to our Form Master, Mr. Barber, for all his help.

W. BARRY (Captain).

R. WILKONSON (Vice-Captain).

3D

Our form seems to have not a few, but many, comedians. McFarland and Forsyth outshine Coyne, Spicer, Dick and Petterson and this, in itself, is no mean achievement. We do some work occasionally but we would much prefer to listen to funny remarks. We are represented in the Football, Tennis, Baseball and Rugby teams.

We wish to thank our Form Master, Mr. Braunstein, for all his help throughout the year.

R. MARINER (Captain).

G. BARTON (Vice-Captain).

3E

We have had a successful year and we congratulate F. Hobson on being first in the class. We are well represented in teams — Swimming, Tennis, Cricket, Football, Lacrosse, Rowing and Rugby.

Our thanks go to Mr. Ingram for his help as Form master.

W. SANGER (Captain).

R. LECKIE, (Vice-Captain).

## *The Open Door*

### 3F

(F for First Always)

Just to show you how good we are, look at this:

*Football*: Huckerby, Carey, McClintoch.

*Soccer*: Wynne, McFadgdon, Farley.

*Rugby*: Gobson, Beecham.

*Lacrosse*: Williamson, Fullu.

Now you know why we are proud of our Form.

We would like to thank our teachers for the help they have given us and in particular we would like to thank our Form Master, Mr. Maskiell, for his help and guidance.

D. WYNNE (Captain).      B. WILLIAMSON (Vice-Captain).

### 2A

We think we are the brainy boys of Second Form, but we have a reputation for chattering. Mr. Baxter loves to tell us a joke but we usually have a better one ready to tell him. We have one boy in the under XIV. team and five in the Rugby team.

Mr. Lascelles, our Form Master, has been a tower of strength.

D. LYONS (Captain).      R. MARSHALL (Vice-Captain).

### 2B

2B, 2B, that's who we are,  
And in our Form we have no star,  
We are all villians as you should know,  
Causing trouble to and fro.  
Kent, the Form Captain, is doing his best  
But with our Form, never gets any rest.  
We all may seem to others silly dopes,  
But in the exams we have modest hopes.  
And many thanks to Mr. Baxter  
Who is our very good Form Master.

R. ARMSTRONG (Vice-Captain).

### 2C

To see 2C in a goodly mood  
Is not to see 2C in every mood  
The trouble is that half of them are cranky  
While the others are either short or lanky,  
Poor old Jack Roberts is so fond of baseball  
That he even plays it in his front hall.  
You see that this doesn't make much sense  
But then 2C is often very———.

Many thanks to our Form Master, Mr. Donohue.

TOM HOOPER (Captain).      R. BRUMBY (Vice-Captain).

2D

Emery and Pitman are funny fellows and make us laugh but others in our Form have great ambitions. Some want to be professional loafers and others poets.

We boys of Form 2D the Great  
Are led by the friendly Mr. Tate  
But at the staff room door  
We collect at the hour of four  
And if we are very tame  
We might even get a footy game.

L. LACKYER (Captain).      D. ORWIN (Vice-Captain).

2M

Under the guiding hand of Mr. Niemann, our Form Master, 2M have had an enjoyable year. We are not only proud of our representatives in the sports teams but are very proud of Olaf Zarins who was first of all the second forms.

J. JAMESON (Captain).      H. DALEY (Vice-Captain).

2R

Our results have shown that we have benefited from our year in the form and in addition we have excelled in sport. Nicholls is in the Lacrosse team; Phillips and Kercher in the Football, and Ashdown and Moule in the under XIV.

Mr. Letcher, our Form Master, has helped us considerably and has encouraged us to study.

C. KERCHER (Captain).      L. ASHDOWN (Vice-Captain).

1A

We wish to thank Mr. C. Lloyd (Form Master) for his help and encouragement. We are proud, too, of G. Bray, F. Beaumont, A. Purdy, and P. Esmonde, who are in the Baseball team and of Bassett, who is in the Lacrosse team. We are progressing at our work and had an average of 73%.

G. HALFORD (Captain).      K. WELSH (Vice-Captain).

1B

Our Form has good scholars and sportsmen. Our humorous, but strict, Form Master is Mr. Deal. We have had two excursions—one to the Industries Fair and the other to a concert at the Town Hall — and we enjoyed both very much. We like Swinburne very much and are glad we are at school here.

G BURGIN (Captain).      N. PERKE (Vice-Captain).

1C

1C is a very happy form and everyone is working very well. Our boys are very good at sport and we all hope to do even better.

## *The Open Door*

We wish to thank Mr. Crook, our Form Master, for all that he has done for us. He has helped us to succeed in our new school.

C. MOUTAFIS (Captain).      T. CHORD (Vice-Captain).

### 1D

The end of the half year has passed and the forms are now beginning to take shape. Tom Rehn did well in the examinations and many of our boys are good at sport. Mr. Tate, our P.T. master, teaches us to play football. Mr. Mair, our Form Master, has helped us with our work and we thank him for assisting us.

N. MILLARD (Captain).      T. REHN (Vice-Captain).

### 1E

The boys of our form are bright and alert all the time. We are all shapes and sizes and we flatter ourselves that when trouble occurs we use good manners to settle the brawl. We know our Maths, English and other subjects, but when exams come around, we seem to forget it all. However, we like our new school very much.

We wish to thank our Form Master, Mr. Cant, for all he has done for us.

G. KNOWLES (Captain).      V. BYRON (Vice-Captain).

### 1F

As captain of 1F, I have found that although it is supposed to be the last class in the school it is a very good class. We get on well at all subjects, but naturally like some more than others. The boys like the school and are glad that they are here. Someone must be last and we felt that we make a good last form in a good school.

We wish to thank Mr. Whitworth, our Form Master, for all his help and guidance.

R. SPRAGUE (Captain).      J. DOWDELL (Vice-Captain).



