## The School Magazine

OF THE

# McCABE COMMERCIAL SCHOOL

MAIDSTONE



Vol. 3. No. 9. July, 1933.

THE CHOICE OF A

## CAREER

Is a problem which has to be solved by all boys and girls nearing the end of their school career.

- In order to choose a career wisely it is necessary to have a wide knowledge of occupational requirements and also of one's own abilities and characteristics.
- The NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY is ready to assist YOU in solving this vital problem. Its experienced staff—aided by psychological tests of proved usefulness and information relating to occupations accumulated over a period of 10 years—is daily engaged in giving vocational guidance to boys and girls of school-leaving age.
- A "follow-up" of boys and girls examined in recent years shows that of those who took the advice given over 80 per cent. are well satisfied: of those who neglected it less than 40 per cent. are satisfied.
- Individual examinations take place at Aldwych House, London, but visits to schools for the examination of groups can be arranged.

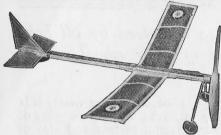
Write to THE SECRETARY

NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY

Telephone: HOLBORN 2277

Aldwych House, London, W.C.2

## LONG DISTANCE FLIGHTS!



THE "DEMON" TRACTOR Price - 7/6

Length  $25\frac{1}{2}$ in., span 23in. Fitted 10in. hand-carved and balanced propeller, patent double-bearing and shock-proof chassis, covered yellow proofed silk with identification discs. Weight and wind resistance are reduced to a minimum in this model, giving the utmost duration of flight.

(Patent No. 296946)
Weight, 3½ ounces Distant
Speed, 16 m.p.h.
Rises from the ground Distance, 850 feet Ceiling, 80 feet.

START A FLYING SOUADRON AT YOUR SCHOOL-AND BREAK RECORDS WITH A

## WARNEFORD

Models from 1/6 to 5 gns.

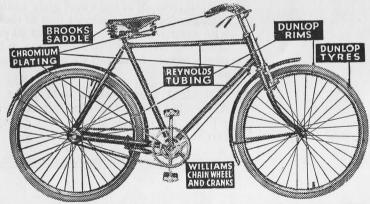
From all Good Stores, Toy & Sports Dealers.

Fully illustrated Price List post free on application:

#### WARNEFORD FLYING AIRCRAFT

(Dept. 22)

GREENWICH - LONDON



The Famous GAMAGE 'POPULAR' Cycle bas 40 Years' Reputation for Quality and Unchallengeable Value
Send for Cycle Catalogue which gives the Full Specification.

#### FREE ACCESSORIES

Pump, Pump Clips, Tools, Tool-bag and Reflector given free with this model

CASH PRICE, GENTS' & BOYS'

or 12 Monthly Payments of 6/6.

Ladies' and Girls' Models, £3 17 6, or 12 Monthly Ladies and Girls' Models, £3 17 6, or 12 Monthly September 17/-.

3-Speed Gear, 20/- extra.

CARRIAGE PAID TO NEAREST RAILWAY STATION ENGLAND AND WALES.

GAMAGES, HOLBORN, LONDON, E.C.1.

Telephone-Holborn 8484

City Branch-107 Cheapside E.C.2



LIQUORICE ALLSORT

GEO. BASSETT & CO. LTD., Portland St., and Owlerton, SHEFFIELD London Offices and Show-rooms: Adelaide House, King William St., E.C.4. Telephone Nos: Mansion House 9281-9282

# Gways to Safety with for 1d. an hour!

anti-dazzle lens. Dim-bright

anti-dazzie lens. Dim-bright switch. You get more for your money with a Pifco Headlamp. Order through Pifco Ltd., High Street, Manchester or 150 Charing Cross Rd., W.C.2

Its brilliant 90 ft. beam is focussed by special

PIFCO HEADLAMP Twin Switch, 90 ft. beam, 30 hours light from 2 pocket batteries, Faceted Lens, Alter-5/- native voltage 4 or 8 volt.

PIFCO DYNAMO SET



PIFCO ELECTRIC



PIFCO DIRECTOR 4/6

PIFCO JUNIOR 1/11



## TOURING TIME!

## Is your equipment complete?

Complete your cycle equipment with Lucas "Cyclealities" ... see the range at your local Dealers-there are models to suit all needs.



LAMPS-Prices 2/- to 27/6. BELLS-9d. to 6/6 Etc. FREE! Write now for Illustrated Literature describing the full range. JOSEPH LUCAS LIMITED, EDept. 43, BIRMINGHAM, 19.



LUCAS BATTERY LAMP De-Luxe. Two batteries, dimming switch, spare bulb.
The finest made! Price 7/6



LUCAS DYNAMO SETS the finest light-givers for cycles give a brilliant beam, with ample light at walking pace.

Four Sets. Prices 17/6 to 27/6



CHALLIS" BELL gives a piercing ring and is strongly made.



WRENCHES grip like a vice, yet release readily without locking. Sizes  $3\frac{1}{4}$ ,  $4\frac{1}{2}$ ,  $7\frac{1}{4}$  in., with or without patent pipe-grip attachment. Prices 2/9 to 7/6



LUCAS DRY BATTERY

LUCAS "CALCIA CADET" (acetylene). Splendid light. 5/-

# \* "KING OF THE ROAD" CYCLEALITIES

#### McCABE COMMERCIAL SCHOOL MAGAZINE.

Vol. 3. No. 9.

JULY, 1933.

#### SCHOOL HISTORY.

The School Calendar is as follows:-

Wednesday, 20th September.—Christmas Term begins.

Tuesday, 26th September.—Old Boys' Meeting.

Tuesday, 31st October.—Old Boys' Meeting.

Monday, 6th November.—Half-term.

Saturday, 11th November.—Armistice Day.

Tuesday, 28th November.—Old Boys' Meeting.

Monday, 4th December.—College of Preceptors Examinations.

Wednesday, 19th December.—Prize Day and End of

A centre will be held at the School at a date in November for the Civil Service Air Force Entrance Examination.

The following new boys have entered the School this

No. 112.—D. A. Black, Lower IV (St. Peter's).

No. 113.—F. H. Mercer, Lower IV (School).

No. 114.—P. J. Allen, Prep. (St. Augustine's).

No. 115.—P. L. Saddington, Prep. (St. Peter's).

Gordon Haywood left School in April to start his career in his father's brush manufacturing business. He entered the School in September, 1927.

Derrick and Bryan Reynolds also left owing to their parents removing to Cliftonville where Mr. Reynolds has taken a tobacconist's business.

In collaboration with the Girls' High School, and Miss Filmer's School of typewriting and shorthand, the School was represented at the County Fair. In an imposing marquee there was on view a specimen of every boy's work in all subjects, as well as other exhibits likely to interest the public.

The object of the exhibition was to show the public that the non-aided independent schools can hold their own in all branches of education. A number of educational specialists and experts visited the stand, and declared themselves well satisfied.

More than a thousand people saw the exhibits, amongst whom was Mr. Bossom, M.P., who spent an interesting quarter of an hour with us.

Photographs of the School have been taken this term. Copies are now available, from 1/3 to 3/6 each, according to size.

\* \* \* \*

About 14 lbs. of tin-foil has been sent to the Ophthalmic Hospita! this term. The box contained 8/-.

\* \* \* \*

The following have given books to the School Library:— E. Austin, W. Tucker, R. Tuill, R. Westbrook, B. Westover, N. Ashton, and R. Eagleton.

The Old Boys' Association are proposing another river trip on Wednesday evening, 30th August. There will probably be room for a few parents and friends. Those who would like to come can obtain particulars from Mr. Piper at School or Mr. J. Birchall, 74, Bank Street.

#### UPPER SCHOOL NOTES.

"Macbeth," "Marmion," "Kenilworth," and "Treasure Island" were the books read this term in connection with the Public Examinations in December.

The thanks of the Schoo! and the cricket team are due to Alan Baxter for the energy and enthusiasm he has shown as Captain, and also to H. Hogg who has acted as Secretary.

"La France" has been much appreciated by the French classes in its new and improved edition.

#### WORDS FROM THE WISE.

Hydra-headed means water on the brain. We were invited out to tea and suffer. Elijah was comforted in the wilderness by an angle. The Whigs and the Tories both wore roses. M.A. is what a B.A. becomes when he is is married.

#### SPORTS DAY.

The Sports Day on Wednesday, 12th July, at the Athletic Ground, proved a very great success. The weather turned out fine after a preliminary shower and the numerous events were smartly run off before a large and interested gathering of parents and friends.

Before the prize distribution, Mr. Piper said the success of the day was due to the zest and zeal of the boys, the willing assistance of the staff, especially Mr. Williams and Mr. Bettle, the co-operation of the parents and Old Boys in their attendance that day, and their assistance as stewards and judges, and also to all those who had so kindly contributed to the prize-fund. He referred to the Sports Day as the day when we exercise the body more than the mind, but no race could be won without the he'p of the mind's good judgment.

Mrs. Piper who distributed the prizes said it was a great pleasure to give out the array of prizes, but it was better still to see the boys benefiting their health on that day, and best of all to know that they were learning to become real good sportsmen.

Keith Noakes presented a handsome bouquet of pink carnations to Mrs. Piper.

The results were as follows:-

100 Yards.—Class I.: 1 R. Bodiam, 2 D. Potts, 3 C. Jessup; Class II.: 1 J. Beale, 2 M. Higgins, 3 C. Goodchild; Class III.: 1 F. Hunt, 2 J. Hooker, 3 B. Westover; Class IV.: 1 D. Jones, 2 C. Beale, 3 R. Westbrook.

High Jump.—1 D. Potts, 2 M. Higgins.

Potato Race.—Class I.: 1 G. Stone, 2 A. Croucher, 3 D. Potts; Class II.: 1 J. Beale, 2 K. Morgan, 3 L. Morgan; Class III.: 1 T. Mercer, 2 F. Betts, 3 D. Winder; Class IV.: 1 L. Morgan, 2 C. Beale, 3 R. Westbrook.

440 yards.—Class I.: 1 G. Stone, 2 H. Hogg, 3 A. Baxter; Class II.: 1 G. Goodchild, 2 L. Beale, 3 N. Stevenson.

Egg and Spoon.—Class I.: 1 B. Ball, 2 A. Croucher, 3 C. Jessup; Class II.: 1 K. Morgan, 2 R. Yui!l, 3 R. Brett; Class III.: 1 B. Westover, 2 F. Hunt, 3 T. Mercer; Class IV.: 1 D. Jones, 2 R. Westbrook, 3 G. Griffin.

80 Yards.—1 C. Beale, 2 D. Croucher, 3 P. Saddington. Long Jump.—Class I.: A. Baxter (14 ft.  $7\frac{1}{2}$  ins.), 2 A. Croucher, 3 R. Wood; Class II.: 1 L. Beale, 2 D. Edmed, 3 J. Beale.

Hoop Race.—1 E. Knott, 2 D. Colinese, 3 P. Fulljames. Old Boys' Race, 440 Yards.—1 J. Whibley, 2 C. Smith, 3 W. Beale.

220 Yards.—Class I.: 1 D. Potts, 2 H. Hogg, 3 G. Stone; Class II.: 1 G. Goodchild, 2 J. Beale, 3 M. Higgins.

Obstacle Race.—Class I.: 1 G. Stone, 2 B. Ball, 3 R. Wood; Class II.: 1 L. Beale, 2 E. Rowcroft, 3 M. Higgins; Class III.: 1 F. Hunt, 2 D. Black, 3 T. Mercer.

Three-Legged Race.—1 H. Joyce and G. Stone.

Slow Cycle Race.—1 D. Potts, 2 F. Youens, 3 R. Bodiam, 4 R. Corke.

880 Yards.—Class I.: 1 H. Hogg, 2 G. Stone, 3 G. Goodchild.

Sack Race.—Class I.: 1 G. Stone, 2 E. Locke, 3 B. Joyce; Class II.: 1 D. Edmed, 2 K. Morgan, 3 J. Piper; Class III.: 1 D. Black, 2 J. Hooker, 3 F. Betts.

Old Boys' 220.—1 J. Whibley, 2 C. Smith, 3 W. Beale. Cricket Ball.—Class I.: 1 D. Potts, 2 D. Croucher, 3 A.

Baxter; Class II.: 1 J. Pierce, 2 D. Edmed, 3 E. Rowcroft. Tug-of-War.—Baxter's team. House Relay Race.—1 St. Peter's, 2 St. Augustine's, 3 School.

Consolation Race.—1 R. J. Randall, 2 J. Stockbridge, 3 I. Thorpe.

Swimming Race.—1 E. Rowcroft, 2 A. Baxter, 3 L. Morgan.

Victor Ludorum Cup.—D. Potts.

House Points.—St. Peter's 114, School 113, St. Augustine's 105.

Cricket Cup.—St. Augustine's: A. Baxter.

#### BALANCE SHEET, SPORTS DAY, 1933.

| RECEIPTS.           |   |     |    |    | Expenditure.             |     |    |    |
|---------------------|---|-----|----|----|--------------------------|-----|----|----|
|                     |   | £   | s. | d. |                          | £   | s. | d. |
| Entrance Fees       |   | 2   | 18 | 9  | Deficit from 1932 .      |     | 13 | 5  |
| Sale of Programmes  |   | 1   | 4  | 6  | Hire of Ground           | 2   | 2  | 0  |
| Subscriptions       |   | 8   | 11 | 11 | Printing                 | 5   | 8  | 0  |
| Prize Given (about) |   | 4   | 0  | 0  | Band                     | 1   | 15 | 0  |
|                     |   |     |    |    | Gratuities and Secretary | 's  |    |    |
|                     |   |     |    |    | Expenses                 |     | 14 | 2  |
|                     |   |     |    |    | Prizes Purchased .       | 4   | 14 | 9  |
|                     |   |     |    |    | Prizes Given (about) .   | . 4 | 0  | 0  |
|                     |   |     |    |    | Balance in hand          |     | 7  | 10 |
|                     | 4 | 316 | 15 | 2  |                          | £16 | 15 | 2  |

E. G. A. Bettle, Hon. Treas. A. M. Williams, Hon. Sec.

#### CRICKET RESULTS.

- 24th June.—v. Preston Hall. Home. Abandoned owing to rain.
- 3rd July.—v. Boxley Juniors. Away. Lost. Boxley 66, School 39.
- 5th July.—v. Old Boys. Home. Won. Old Boys 56. School 93.
- 15th July.-v. Preston Hall. Home. Draw.
- 24th July.—v. Boxley Juniors. Away. Lost. Boxley 112. School 35.

Played 4, Won 1, Lost 2, Drawn 1.

#### House Matches.

- 7th June.—St. Augustine's v. St Peter's. St. Augustine's won. St. Augustine's 51. St. Peter's 33.
- 28th June.—St. Augustine's v. School. St. Augustine's won. St. Augustine's 67. School 23.
- 25th June.—St. Peter's v. School. St. Peter's won by 7 wickets. St. Peter's 39 for 2. School 37.

A. BAXTER (Capt.).
R. W. H. BODIAM (Vice-Capt.).
H. HOGG (Secretary).

## HARNESSING METALS TO THE SERVICE OF MAN.

[We are indebted to Dr. W. A. Naish, Ph.D., B.Sc. (London), A.R.S.M., F.I.C., M.I.M.M., Head of the School of Metallurgy, Chelsea Polytechnic, London, S.W.3, for the information contained in this article.]

#### Metallurgy as a Career.

THE profession of Metallurgy as a career is not only an interesting one, but also, owing to its practical nature, and to its many and varied aspects, often appeals strongly to youths of a scientific turn of mind and especially to those who are imbued with the spirit of adventure and the desire to work abroad.

In the following article an attempt is made to indicate briefly the nature of the profession, the prospects, and the training necessary.

#### The Meaning of "Metallurgy."

Metallurgy, or the Science of Metals, has been known and practised from very early times. Since metals are seldom found in the "native" state, crude yet astonishingly effective methods of smelting were employed in order to obtain the metal from the ore; indeed such methods may still be found in operation amongst native tribes, examples being the production of malleable iron, mercury, and gold.

The winning of metal for implements of warfare, agriculture, and for the arts and coinage is also of course an ancient craft, and until fairly recent historical times the winning of metal from ore and its subsequent fashioning for domestic and other purposes was a jealously guarded art. Most of us have heard of the Bronze Age and of the Iron Age, and it is a matter of interest that some of the secrets of these old craftsmen are still hidden from us. The old alchemists

also, ever seeking to turn base metal into gold, were probably more skilful metallurgical chemists than is commonly supposed.

Like most craftsmen, the workers in metal, the smiths, armourers, braziers, pewterers, etc., formed trade guilds and in the Middle Ages many such flourished, especially in England and Italy; indeed, several such guilds still exist in this country under the names of "Worshipful Companies," especially in the City of London.

#### The Scope of Metallurgy.

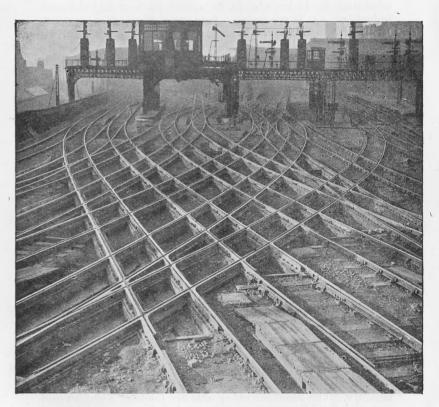
In more recent times the Science of Metallurgy has made enormous strides; indeed it is doubtful if any other Applied Science has been so developed. Starting as a craft, the profession of Metallurgy has become a Science in the modern sense of the word, and some idea of its ramifications may be obtained from the following list of the more important branches of the subject:—

The smelting of ore for the production of metal. The assaying or analysis of ores and minerals. The properties and working of metals and alloys. The construction of furnaces and foundry work. The mechanical testing and heat treatment of metals. The microscopical examination of metals.

It is clear that there is a practical side in the production and working of metals and a purely scientific side dealing with the laboratory testing and examination of metallurgical commodities.

#### A Developing Science.

During the last 25 years the methods of extraction of metals from masses of metalliferous ore have been revised and improved beyond recognition—for example, the application of electricity to the smelting and refining of metals in the cases of Aluminium, Iron and Gold. It is, however, in the application of Metallurgy in the allied industry of Engineering that the most remarkable advances have been made. The great improvement in the properties of alloys and steel for use in the automobile and aviation industries are striking examples. It may therefore be seen that the profession of Metallurgy has an honourable past, a recognized and assured present, and would appear to have a future of unbounded utility to the human race.



RAILWAY TRACK AT NEWCASTLE. LINES ENTIRELY CONSTRUCTED OF MANGANESE STEEL.

Photograph reproduced by kind permission of Messrs. Chapman and Hall.

#### CAREER PROSPECTS.

In these days, when many professions appear to be over-crowded, it may be of interest to youths to know something of the scope and opportunities of a career in Metallurgy and the allied profession of Mining. Metallurgy offers many advantages. It includes in its sphere such widely different industries as Engineering, Iron and Steel Manufacture, Foundry work, Metal working and Analytical work in this country; in addition it offers careers in the colonies or abroad in mines and smelting works. It has also the advantage that the number of youths taking up Metallurgy is much smaller than in many other scientific professions; indeed it is difficult to name any industry that does not need to call on the metallurgist and metallurgical chemist to some extent.

#### Some Allied Professions.

Metallurgy has at least two very distinct and separate sides. One of these is concerned with the manufacture, working, and use of metals and alloys in the various branches of modern industrial life; the other deals with the mining and extraction of the metal and the prospecting for, and valuation of, minerals. The first aspect includes the great Iron-Steel industry and the many sides of general and specialized Engineering. Students who concentrate on this branch may be said to be qualifying for positions in these industries in this or in similar civilized industrial countries. Such positions may be on the production, analytical control, or research side. The smelting and mining side of Metallurgy is carried on practically entirely abroad, and youths specializing in this branch must be prepared to follow the industry. The positions obtainable are those of assayers and samplers, leading to assistant and full managerships of mines and smelting works. Such positions offer a very attractive and often highly lucrative career to youths of the right calibre and temperament.

There remains still another branch of metallurgical work open to well qualified men, viz., Research. There are a limited number of posts constantly occurring for young qualified metallurgists in the Research Departments of the

Government, Scientific Research Boards, and with large companies.

#### Prospects and Salaries.

While it is manifestly impossible to state in definite terms the salaries obtainable by youths on the completion of their courses of training, it can be taken that in smelting works and mines abroad a young trained metallurgist can obtain a position as a sampler and assayer at a salary of £25 a month and all found. From this position, which is usually the basic or starting one, he can rise to be manager of a department, and ultimately assistant manager and manager of the plant, which position carries a very large salary. In the case of appointments in the engineering side of Metallurgy in this country the initial salary as an assistant metallurgical chemist or metallurgist on the works side is approximately £200 to £250 per annum. From this position it is possible to obtain important posts in the control of metallurgical operations. These technical posts naturally necessitate practical experience and training, in addition to the preparation and training given in a metallurgical course.

#### Necessary Training.

The necessary training for a boy who wishes to take up the profession of Metallurgy consists of a three years' course at a Metallurgical School such as the Chelsea Polytechnic, London, S.W. 3.

Such a school is organized both for the preparation of students for the B.Sc. degree in Metallurgy and for the Diploma of the Institute of Chemistry in Metallurgical Chemistry. In addition to these general courses the student may take a special two years' course in Engineering Metallurgy or a one year's course in Prospecting, Assaying, and Mineralogy.

#### Cost of Training.

The approximate cost of training at this school need not exceed £7 a term for students resident in London. This does not, of course, include the cost of subsistence during tuition. If a boy has reached Matriculation standard he can enter upon a Degree Course at once. He must then take the Intermediate Examination in Engineering, which should be

accomplished in one year, during which time he also receives instruction in Elementary Metallurgy. In the second year more advanced Metallurgical work is taken, together with the allied subsidiary subject of Mineralogy; and in the third year the final degree work is taken or that particular branch of Metallurgy in which the student is specializing.

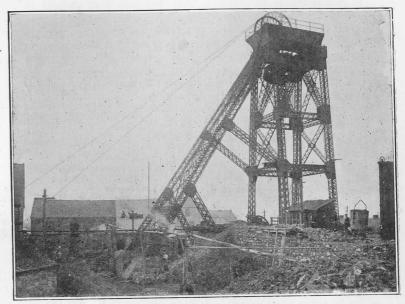
The course for the purely technical student is based on similar lines, so that for two years a *general* metallurgical education is given, while specialization in either the engineering or the mining side is reserved for the final year, by which time a student will have been able to determine whether he prefers to adopt the Engineering or Mining side of the industry.

There are also important schools of Metallurgy attached to the Royal School of Mines, South Kensington, London, and Birmingham and Manchester Universities. Full information can be obtained from these centres.

#### Present State of the Profession.

There are undoubtedly many good openings for youths trained in Metallurgy. At the moment industry in this country is depressed; so for the time being the demand at home is relatively small. Provided, however, a youth is prepared to accept an opening abroad in the event of one not offering itself in this country, and provided he is suitable for the profession personally, he is practically certain to obtain employment.

At any rate this is a useful career, an interesting career, and one that offers a fair return on the money spent in acquiring the necessary qualifications. British industry needs more than ever the best talent it can draw upon from the higher-grade schools. The old tradition that the "well educated boy" must inevitably take up either Medicine, the Law, Architecture, the Civil Service, or the Army or Navy is dying rapidly. Great Britain is an industrial country. She is in competition with many countries that until recently were content to draw supplies of machinery, etc., from her shores. To keep her grip on world trade it is vital that a greater part of the well trained intelligences at present flowing into the professions mentioned above be diverted to industry. The boy who recognizes this fact and takes his chance in industry will be doing both his country and himself a very real service.



TYPICAL STEEL HEADGEAR.

Photograph reproduced from the "Mining Magazine."

#### The Boy that is Wanted.

Metallurgy requires a very large measure of patience. It is almost one of the "exact" sciences, and the boy who allows himself to develop a slipshod, "anything will do" habit during his school days should choose another profession.

During the first year or so of his professional career the young metallurgist will often find that he has to go through a considerable amount of routine work. During this period he is learning to apply the knowledge gained during his training and also to adapt himself to industrial conditions. To most youths, however, this "post-graduate" period, especially if spent on a metallurgical plant or mine abroad, will yet be full of interest on account of the novelty of the work and environment. The interesting side of the metallurgical profession soon develops and the young metallurgist who has "carried on" will find himself now fitted by experience as well as academic training to take his rightful place in the profession.

It is a mistake to assume that because you delight in making experiments in your "den" at home, or take a great interest in the science lessons at school, you have the makings of a great scientist. Such enthusiasm without the ability to vizualize the potentialities of your science and to use the imagination constructively will not suffice to keep you out of the rut. Success in Metallurgy, as in most of the professions, requires, as well, patience, perseverance, and a careful use of the imaginative faculty.

#### School Days.

Whatever profession a boy decides to adopt, he should bear in mind that a good general education is the first essential. All the subjects learnt at school play their part in developing the intellect and forming the character. In every profession one comes into contact with cultivated men and women; and to have packed the mind with those facts that bear only on one's work, to the exclusion of everything else, is to place oneself at a great disadvantage.

This does not mean that the boy who intends to become a Metallurgist should not take the keennest interest in scientific subjects at school. It does mean that he should not do so to the exclusion of other cultural subjects, such as History, Literature, or French.

A sound knowledge of mathematics should be acquired during school days. The many valuable contributions of French and German chemists to scientific research make a knowledge of these languages desirable to the student who wishes to keep abreast of modern developments.

Remember that whatever profession you adopt, to have matriculated will be found of very great assistance. Most professional institutes demand this of all students sitting for these examinations. To have to sit for it after leaving school is a waste of valuable time and often is a matter of considerable difficulty.



#### INDUSTRIAL GEOGRAPHY.

There have been three visits this term, to the Trades Exhibition, the Ashford Railway Works and the Trip to London.

The first, the Trades Exhibition, which was held at the Corn Exchange, proved very interesting, for we saw in a comparatively short period the chief manufacturing commodities of everyday life. The stalls were so arranged to show the processes through which the commodities have to pass. At this visit one could obtain a good idea of the large and numerous manufacturing centres in Kent. The "Robot" or mechanical man proved a source of much amusement by its uncanny movements and by obeying the commands of its inventor.

The visit to the Southern Railway Works at Ashford proved a source of great interest; we were shown that when the steel is drilled a light coloured solution known as "mystic" is spread over it to prevent rust. The average output of 25 wagons per day shows the enormous amount of time saved by the aid of hydraulic drills, planing machines and numerous other machines. The Ashford Works carry out repair work as well as the construction of new coaches and engines. At the time of the visit there was one engine in the course of construction and the repair of No. 1621 which was concerned in the recent Raynes Park smash. These extensive works cover over 25 acres.

F. VIDLER.

#### VISIT TO LONDON.

The plan adopted last year of transforming the annual visit to the seaside into a London visit was followed this year with conspicuous success.

Two coaches left Maidstone at 9 o'clock, the first containing the School, the second mainly Old Boys and Parents, 64 persons in al!. The journey to Town was swift, but owing to traffic delay at Peckham the visit to Southwark Cathedral had to be cancelled. This was unfortunate, because the Church, with its Shakespeare and Dickens associations, is well worth a visit.

At Westminster the party containing Parents and Old Boys made their way to St. Stephen's, where Mr. A. C. Bossom, M.P., was waiting to conduct them over the Houses of Parliament. Mr. Bossom took much trouble to explain clearly the working of the "House," and the party saw the Lords, Commons, Committee Rooms, etc. All present appreciated Mr. Bossom's kindness, and his charming personality made the visit very enjoyable. Meanwhile the School party were at South Kensington thoroughly happy in

the Science Museum pressing buttons and turning knobs. Hero's steamengine (A.D. 50) caused much amazement. A mild sensation was occasioned when one of the dreamy members of the Upper School walked by mistake into the Geological Museum next door, where the World Economic Conference was sitting. Apparently the authorities mistook him for Litvinoff. After a brief look at London University and lunch, the School party rejoined the others at Westminster and proceeded to Tower Pier where the Port of London steamer "Isle of Arran," was waiting. Amidst glorious sunshine the steamer moved off, and we were thrilled to see the Tower Bridge swing upward to allow us to pass. The P.L.A. provided us with maps and the chief objects of interest, and the work of the port was pointed out to us by an official. We passed through the Lower Pool, Limehouse, and Greenwich reaches, noticing the sailing ship "Alastor," and the "Dominia," the largest cable-ship in the world. Our vessel entered the lock at the entrance of the King George V dock and so passed into the famous dock. Here we had a first-class and privileged view of some of the largest vessels afloat, and we saw the greatest London Flour Mill. From thence we were towed into the Royal Victoria and Albert Dock, where similar spectacles awaited us, amongst which was the s.s. Taranaki discharging a freight of 180,000 carcases of mutton, and 25,000 boxes of fruit from New Zealand. And so we steamed up river again, taking tea to the strains of the "Blue Danube." It was noticed that several members of the German class were not neglecting to try that language on a charming fräulein. On arrival the party had an hour to spare, some visited the beautiful old Church, All Hallows, some the Guildhall. At 7 o'clock the return journey was made without mishap. It was gratifying to learn that all thought the visit very inexpensive, and of a highly educational as well as enjoyable character.

WILLIAM THE SILENT.

#### THE OLD BOYS' ASSOCIATION.

We are glad to report that the Old Boys' Association continues to flourish, and there has been a welcome increase in membership.

Its many and varied activities have been continued and extended, though, in keeping with the season, its chief events have been out of doors. Thanks to the efforts of Mr. George, our able Cricket Secretary, a very attractive list of fixtures was arranged for both the Wednesday and Saturday teams, and for a first season the results have been encouraging, and the experience gained should lay the foundations for further successes next year.

The acquisition by the Association of a suitable Sports Ground has done much to popularize the Club.

The Social Committee organized a very pleasant trip up the Medway. The numbers were somewhat disappointing (about twenty members were present) owing to the uncertain weather. Mention of the visit to the Houses of Parliament, by kind invitation of Mr. A. C. Bossom, M.P., and the visit to the Docks will be found elsewhere.

Members enjoyed the Special Old Boys' races at the School Sports, and co-operated in the arrangements by acting as stewards, starters, and judges. We are fortunate in possessing the services of Messrs. Beale and Allen as Chairman and Vice-Chairman, and of a strong active committee. The meetings have been well attended, the latter part of the evenings being devoted to social purposes.

We should be glad to see any Old Boy on the last Tuesday of each month; the Secretaries hope to enrol the hundredth member this year.

#### THE SCHOOL ROLL. (Continued).

| Admi | neission                   | Last known address Admission            |
|------|----------------------------|---|
| No.  | Name<br>Pearce, George     | "Woodman," Boxley Sept., 1913           |
| 201  | Gilbert, Frederick William | 70 III - 1- Ct                          |
| 202  | Gilbert, Frederick William | Wastens David                           |
| 203  | Hopkins, Baden R           | F Ct. Commander Commander               |
| 204  | Wood, Allen                | D 11 II II I                            |
| 205  | Büxenstein, Claud          |   |
| 206  | Steer, William James       | 25 Canterbury Road,                     |
|      |                            | Pembury ,, ,,                           |
| 207  | Light, Alfred              | 286 Upper Fant Jan., 1914               |
| 208  | Toms, Hubert Reginald      | 'Delmonden," Holland Rd. ,, ,,          |
| 209  | Boardman, Arthur           | 92 Salisbury Road ,, ,,                 |
| 210  | Beale, Cyril               | 21 Brewer Street ,, ,,                  |
| 211  | Miller Edward              | St. Helen's Corner,                     |
|      |                            | East Farleigh ,, ,,                     |
| 212  | Ballard, Frank             | 4 Orchard Villas, E. Malling,, ,,       |
| 213  | Burren, Abel               | "Burbridge," Eccles Feb., 1914-         |
| 214  | Large, Harry               | Tonbridge Road (De-                     |
|      |                            | ceased) ,, ,,                           |
| 215  | Hall, Harry                | Queen's Road Apr., 1914                 |
| 216  | Maskell, Cecil             | Bower Street ,, ,,                      |
| 217  | Veitch, Andrew             | Court Farm, Aylesford ,, ,,             |
| 218  | Banfield, Philip George    | 9 Heath Grove, Barm-                    |
|      |                            | ing ,, ,, ,, "Whiteheath," Hol-         |
| 219  | Barling, Louis             | "Whiteheath," Hol-                      |
|      |                            | lingbourne ,, ,,                        |
| 220  | Thomson, Frank             | 97 Florence Road ,, ,,                  |
| 221  | White, Leonard             | Gatland Lane ,, ,,                      |
| 222  | Loosemore, Arthur Burnard  | 44 Oak Tree Avenue Sept., 1914          |
| 223  | Reynolds, Percy            | Bower Place ,, ,,                       |
| 224  | Beale, Clarence            | 21 Brewer Street ,, ,,                  |
| 225  | Williams, Donald           | 8 Stone Street Oct., 1914               |
| 226  | Grey, Noel                 | Ashford Road ,, ,,                      |
| 227  | Large, Charles             | 219 Tonbridge Road Jan., 1915           |
| 228  | Burren, Gus                | "Sunnyside Cottage,"                    |
| 220  | Burron, Gus                | Eccles ,, ,,                            |
|      |                            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |

|     | 40                      |                          |        |         |
|-----|-------------------------|--------------------------|--------|---------|
|     | ission                  |                          | Da     | te of   |
| No. | Name                    | Last known address       | Adn    | nission |
| 229 | Austell, Fred Hubert    | <br>19 St. Luke's Road   | Jan.,  | 1915    |
| 230 | Smith, Charles          | <br>34 Western Road      | ,,     | ,,      |
| 231 | Thompson, George        | <br>4 Marsham Street     | ,,     | ,,      |
| 232 | Anscombe, Fred          | <br>Orchard House, E.    |        |         |
|     |                         | Malling                  | ,,     | ,,      |
| 233 | Bishop, Douglas Webster | <br>" Quebec," Sheal's   |        |         |
|     |                         | Crescent                 | Feb.,  | 1915    |
| 234 | Lidyard, Richard        | <br>69 College Road      | Mar.,  | 1915    |
| 235 | Prizeman, Donald        | <br>65 Tonbridge Road    | May,   | 1915    |
| 236 | Boyd, James             | <br>Lenham               | ,,     | ,,      |
| 237 | Sparks, Hugh            | <br>Holly Cottage, Mere- |        |         |
|     |                         | worth                    | ,,     | ,,      |
| 238 | Langridge, Jack         | <br>22 Backland Hill     | ,,     | ,,      |
| 239 | Lawrence, Douglas       | <br>12 Prospect Place    | Sept., |         |
| 240 | Jenner, Donald Allen    | "Garage," Birchington    | ,,     | ,,      |
|     |                         |                          |        |         |

#### OLD BOYS' ASSOCIATION.

#### CRICKET RESULTS.

- 10th May.—v. Unemployed Centre. Home. Lost. Unemployed 91. O.B.A. 29.
- 13th May.—v. Aylesford. Home. Lost. Aylesford 79 for 2 declared. O.B.A. 17 and 34.
- 20th May.—v. Addington. Away. Lost. Addington 89. O.B.A. 11 and 25.
- 25th May.—v. Willington. Away. Lost. Willington 68. O.B.A. 25.
- 27th May.—v. Corben's Sports. Home. Lost. Corben's 48 for 2. O.B.A. 47.
- 12th June.—v. Grocer's II Eleven. Home. Lost. Grocers 66. O.B.A. 60.
- 14th June.—v. Willington. Away. Won. Willington 32. O.B.A. 39.
- 28th June.—v. Boxley Bible Class. Away. Lost. Boxley Bible Class 183 for 4. O.B.A. 71.
- 5th July.—v. School. Home. Lost. Schoo! 42 and 51. O.B.A. 24 and 32.
- 1st July.—v. Bridge Mills. Home. Lost. Bridge Mills 161. O.B.A. 24.
- 12th July.—v. Arkcoll's. Away. Lost. Arkcoll's 76. O.B.A. 42. Played 11. Won 1. Lost 10.
- IMPORTANT NOTICE.—We are anxious to increase the circulation of this Magazine, especially among the Old Boys. All O'd Boys are urged to request that their names be placed on the list of regu'ar subscribers. The cost is 2/6 for the three issues during the year. All you need to do is to send a postcard or a telephone message (No. 2623), and the matter can be settled immediately.

A COLLEGE MAGAZINE SERVICE PRODUCTION. 60 Worship Street, Finsbury Square, London, E.C. 2.

## The best two-pennyworth in your Tuckshop!



# CADBURYS

HEAVYWEIGHT 2<sup>D</sup> MILK BARS

## CAREERS!

#### SPECIALISED TRAINING

for careers in

## PROFESSIONS AND COMMERCE

Chartered, Incorporated, Certified and Corporate Accountants, Municipal Accountants and Treasurers, Commercial Accountants, Cost Accountants, Auditors, Company Secretaries and Registrars, Works Managers, Office Managers, Cashiers, Bank and Insurance Officers.

### **CIVIL SERVICE**

Inspectors of Taxes, Customs and Excise, Executive Class, Clerical Class, Post Office, Assistant Preventive Officers, Inspectors of Factories, Examiners in Board of Trade and Patent Office, Traffic Superintendents in Telephone Service, Accountant Officers in Royal Air Force, Aircraft Apprentices and Apprentice Clerks in Royal Air Force, Apprentices in H.M. Dockyards and Royal Navy, Indian Police.

#### EXAMINATION SUCCESS RECORD

The School's brilliant record of successes in the recognised Professional and Commercial Examinations provides conclusive evidence of the efficiency of the training.

Boys shortly leaving school should send for free 180-page Guide to Careers in Professions and Commerce, or 50-page Civil Service Guide.

## THE SCHOOL OF **ACCOUNTANCY**

463 BUSH HOUSE, LONDON, W.C.2



#### Everything for every Game

GUNN & MOORE have School, College and Club Outfits. The attention selecting the best equip-

#### FAIR PLAY-GOOD PLAY!

Sportsmanship, of course, is like honesty. There are no degrees to it. But there are certainly differences in sports equipment that can turn fairish play into good play; and knowing that, the leading schools and clubs make sure with GUNN & MOORE EQUIPMENT.

#### FOOTBALL HOCKEY

The Famous

(Regd.)

" LEFT WING " and "CANNON"

"T" Pattern Balls

these Balls means the stocked by assurance of a lively, the leading a reputation for complete accurate ball that keeps Sports Outits perfect shape.

The World renowned

"RIGHT WING" "AUTOGRAPH" "CANNON" & "NOTTS" HOCKEY STICKS

The leading Internationals use GUNN & MOORE Hockey Sticks. The selection of any of Models in all sizes are

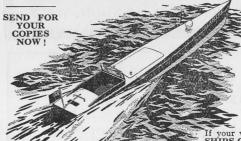


of specialists is given in Write for Catalogue of all Winter Sports Goods

ment for satisfactory ser- GUNN & MOORE, LTD. CARRINGTON STREET, NOTTINGHAM

**BASSETT-LOWKE POWERFUL WORKING MODELS!** 

FINEST LOCOMOTIVES! SMARTEST CRAFT!



Here are model railways and ships to be proud of, made by world-famous engineers-the literal embodiment of speed, power and realism.

Prices for these famous models have never been so reasonable before-soon they MUST rise, so that NOW is the time to buy the engine or motor cruiser you particularly admire. A chance like this may never come again.

If your interest lies in Locos, you will want their attractive RAILWAY Catalogue No. A19, crammed from cover to cover with interesting information and illustrations of BASSETT-LOWKE RAILWAY Masterpieces

your weakness is Ships, send for their NEW SHIPS Catalogue (just published), No. S. 19, which tells you everything about water craft.

London Branch-112, High Holborn, W.C.1

Manchester Branch-28, Corporation Street

### The Railway Magazine

A popular Monthly Magazine for all who take an interest in railways.

Articles on locomotive practice and performance are a special feature.

Profusely Illustrated

PUBLISHED MONTHLY PRICE 1/- Net. 33 Tothill Street, Westminster, London, S.W. 1.



#### BARGAINS Prices "Postage Extra."

Some of the famous S.G. "One-Country" Packets.

| 12  | Barbados -    | _ | 1/3 | 25  | Bosnia   | _   | - | - | 1/9  | 50 Rouma                     |
|-----|---------------|---|-----|-----|----------|-----|---|---|------|------------------------------|
|     | India         |   |     | 50  | Bulgaria | -   | - | - | 1/3  | 20 San Ma                    |
| 50  | New Zealand   | _ | 2/6 |     | Cuba     | -   | - | - | 10d. | 30 Siam                      |
| 15  | Rhodesia -    | _ | 1/3 | 20  | Guatem   | ala | - | - | 1/-  | 25 Urugua                    |
|     | Travancore -  |   |     | 100 | Italy -  | -   | - | - | 1/6  | These are                    |
|     | Algeria       |   |     | 50  | Japan    | -   | - | - | 1/-  | for new 193<br>gives full li |
| 100 | Bavaria       | _ | 1/9 | 26  | Liberia  | -   | - | - | 4/6  | of wonderf                   |
|     | Belgian Congo |   |     | 30  | Persia   | -   | - | - | 2/-  | IS SENT                      |
|     |               |   |     |     |          |     |   |   |      |                              |

| -                |                                      |                           | -                  |             |             |      |
|------------------|--------------------------------------|---------------------------|--------------------|-------------|-------------|------|
| 50               | Roun                                 | nania                     | -                  | -           | -           | 1/-  |
| 20               | San N                                | <b>Iarin</b>              | 0                  | -           | -           | 3/-  |
| 30               | Siam                                 | -                         | -                  | -           | -           | 2/6  |
| 25               | Urug                                 | uay                       | +                  | -           | -           | 1/-  |
| for<br>giv<br>of | ese are<br>new 1<br>es full<br>wonde | 933 S<br>list p<br>rful s | let<br>olus<br>set | Lis<br>s th | t, w<br>ous | hich |

STANLEY GIBBONS Ltd., Dept. 158, 391 Strand, London, W.C.2

## Send to FOYLES FOR BOOKS!

Over two million volumes in stock, including almost all the best new and secondhand books on every subject. Our catalogues are free on mentioning your interests and we attend to post-orders quickly and efficiently.

119-125 CHARING CROSS ROAD, LONDON, W.C.2

#### ALEC WATSON & MITCHELL'S LIMITED.

SPORTS OUTFITTERS

CRICKET, :: GOLF, TENNIS, :: BOWLS, SWIMMING, RUNNING, SCOUTS, CAMPING, HIKING, CAMPING, HIKI GUIDES. AND ALL SPORTS. Catalogues post free.

SPECIAL TERMS TO SCHOOLS. 1 NEWTON STREET (PICCADILLY)

35, OXFORD STREET 50, MARKET STREET MANCHESTER