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The Magazine of the
Wellingborough Grammar School.

No. 1. AUTUMN TERM, 1932.

Editors: Mr. J. G. Dunning, P. Stock.

Committee: Jackson, S. Sanders, Hanwell, Walden,
Crawley, R. Sanders, B. Phillips, P. Groome.

INDEX.

Editorial .... .... .... .... 4
School Notes .... .... .... 5
Valete and Salvete—Who We Are .... 6, 7, 8
R.U.F.G. .... .... .... 9, 10, 11, 12
Cricket, Season 1932 .... .... 13
6th Wellingborough (Grammar School) Scout Troup—Musical Society—Dramatic Society .... .... .... 14
Boxing—House Notes .... .... .... 15, 16, 17
School Prizes—This School, A.D. 2,000? .... 19, 20
Cross Country—Athletic Sports .... 22
Cinema Shows—Art and Photographic Competitions .... .... 23
Careers in Engineering .... .... .... 24, 25
Howlers .... .... .... 26
Holidays at Fairlight Farm .... .... 27
In the Wood—Caught Napping .... .... 28
Evolution of a Motor Car .... .... 29, 30
The Longest Railway Tunnel in the World—Chamber Concert .... .... 31
The Excursion to Whipsnade—The Phantom Thief .... .... .... 32
Our Tree Collection .... .... .... 33
EDITORIAL.

We present the first issue of the School Magazine.

We shall endeavour, as far as cold black print will allow, to keep a chronicle of the activities and social welfare of the School. We hope to make the magazine a comprehensive record of memories, a history of the School, to be kept with care by the inhabitants of our school world. We mean to include all phases of school life; its scholastic successes, its games, its enterprises and its humour.

We have to thank the contributors whose really excellent work has made this issue possible, and whilst we thank them, we would point out that they must feel honoured in that this magazine contains a memorial to their efforts.

Possibly some people were nervous in writing articles for a real magazine; we regret that IIb and I are not represented amongst the contributors, but we hope that in our next issue in the Summer Term, many more people will do their share in making the magazine a success.

Readers must realize that all the contributions must not be judged by the same standard, but age and form must be considered in assessing the worth of an article, and we feel that with this in mind, we are correct in thinking that this magazine represents a high standard of achievement, yet not so high that it cannot, with effort, be bettered.

We leave you to read the magazine, and hope it will inspire you to do your share in making this only the first of a chain of successful issues, for the good name of our school. Here's to the future!
SCHOOL NOTES.

School Prefects:
S. Smeathers, C. Drabble, L. Callf.

Half Colours for Rugby have been awarded to S. Sanders, Jackson, Lawrence, Callf, Edwards.

We were sorry to lose Mr. Brown. We shall miss his encouraging influence, but we wish him luck in his new sphere.

Armistice Day Remembrance Service was held with due solemnity in the School Hall. A few parents were present, and the Headmaster gave a short explanation of the ideals behind "Remembrance Service."

The sum of £1 18s. 0d. was realised from the sale of Poppies in the School on Armistice Day.

There were fifty one new boys who entered the School this term.

With the growth of the School, several Societies have been found practicable, and further reference to these will be found elsewhere in this issue.

We cannot congratulate those boys who have, on rare occasions we are thankful to say, abused school property in various ways; we expect greater regard for common property.

A large number of boys went to the Palace Cinema on Thursday, October 5th, to see a missionary film on "Life in Africa."

On June 21st, after Prayers, we listened with appreciation to a missionary talk by Mr. Woodhouse, lately returned from India.

We would like to express our gratitude to Mr. J. B. Whitworth, of Croyland Hall, for his gift of the School Clock. It is an ornament that will be ever useful to ourselves and our neighbours.
WHO WE ARE.

The contributors to the first number of a new publication must consider themselves highly honoured. For their part they have a very responsible position to discharge to their readers. In this case not only is the magazine a new venture, but as it is the official organ of a new school, it is only right that the story of the school should be picked up from the beginning, and provide a comprehensive record.

The building was begun in 1929 from plans prepared by the firm of Talbot Brown and Fisher, Wellingborough. By June of 1930, the outside shell, standing amid heaps of builders' materials was having its scaffolding removed, and the interior was in the hands of plasterers, joiners, and various subcontractors attending to the multifarious processes of electrical wiring, hot water installations,
floorlaying and so on. Although the work was pushed on fast, the opening had to be delayed until September 23rd.

Meanwhile the Governors had met frequently for the appointment of the headmaster, four members of staff, and a cook and a caretaker. Chairs and tables, desks, crockery, pens, ink, paper and text books for a number of boys, estimated rather by guesswork, all had to be thought of during the next few weeks, and finally, in the last two days, parents and boys were interviewed with the noise of hammering still going on in various parts of the building.

On the opening morning the sixty-four first pupils were assembled in the hall for an entrance examination. This examination enabled the staff to make up four forms called III, IIa, IIb, and I, and as such we settled down to a very interesting term's work. The photograph taken after the first week now seems a relic of a generation ago, and some of the faces after two years have changed almost beyond recognition. The football was very enjoyable, although the ground was hard to fall on, and the turf no more than fresh cut stubble. A concert was held at Christmas, and thus the school weathered its first social function. Numbers increased rapidly, term by term. In September, 1931, there were 150 on the books, and in September, 1932, we were 202 strong, 10 boys having then left. The official Opening Ceremony was delayed until June 11th, 1931, so that the walls could dry thoroughly, ready for distempering. This was done during the Easter vacation. The quadrangle had been sown with grass seed, and for the great occasion it looked quite green. The occasion was a memorable one for the school, and both boys and visitors were profoundly impressed by the moving speech of Sir Michael Sadler, the Master of University College, Oxford, on the subject of "The Advantages of a Liberal Education." He was met at the front gate by Mr. Henson, the Chairman of the Governors, and approaching between two rows of boys, unlocked the front door with a golden key. Mr. S. J. Lloyd, the Chairman of the Higher Education Sub-Committee broke the flag, and we were officially open. After the service and speeches in the closely packed Hall, tea was served in the quadrangle, and visitors went round the building.

In September, 1931, two more members of staff joined, and with more than twice the original number of
scholars, the school began to wear altogether a new aspect. There were enough now for a division into houses, which were named after animals, real or monstrous. The Cricket Cup was won in the summer of 1931, by the Stags, who so far have showed a cup winning team spirit just superior to the others in many well fought conflicts, as they have since held the other two cups, the Football and Athletics.

In September, 1932, there were eight assistant masters. Gradually various departments of the school have been put into commission. The lecture room has been earmarked in particular for geography, the laboratories have received an initial amount of equipment, and the woodwork room now receives six double period classes each week. Beside this routine expansion, other activities have taken shape. The Dramatic Society made a most promising beginning in April, 1932, with three one act plays, having previously made all the scenery and fittings. The Scout Troop has, from small beginnings, become a valuable force for good in the school, and the Musical Society has a regular programme of meetings. Until we are large enough to be able to attract visiting lecturers, a series of cinematograph shows—thanks to the Art Master's Baby Ciné—has drawn us back to school for some happy and interesting evenings.

So here we are to witness the issue of the first number of our School Magazine. And what of the future? We shall not feel quite grown up for another four years. Two years—the summer 1934 will see our first big batch of boys sitting for the School Certificate, and we hope that the same boys will be taking the higher Certificate in 1936. A school's status depends on two things:—firstly on the quality and character of the citizens it produces, and secondly on the scholastic and academic training imparted. By unselfishness and determination to put the school first, we shall achieve the former, and by hard work and clear honest thinking, the latter will take care of itself. We are living through a period of world wide depression, but not despair. We can feel very thankful that our school was in being before the dark days set in, and it is for us to hold aloft a torch, and be foremost in lighting up the path of progress. convinced that the path of progress lies in the way of efficiency and honesty of purpose.

F.C.L.
R. U. F. C.

TEAM CHARACTERS.

"Under 15" XV.

S. Sanders (left-wing)—Captain of football. He is a tactful captain. To be a good captain he requires to be thorough. His kicking has improved, but his tackling is not really a good example.

J. Jackson (forward)—Leader and vice-captain. On his day a keen hard-working forward. He backs up his three-quarters well.

D. Lawrence (out-half)—Half-colour. He has settled down well in his new position. If he keeps on improving he might make a good player.

C. Edwards (scrum-half)—Half-colour. He has improved his game considerably. He now falls and tackles well, and has a very fair pass-out.

L. Callif (forward)—Half-colour. He backs up and handles well, but must not forget the chief duty of a forward is to shove in the scrum.

G. Gowen (centre three-quarter)—He has brains and sometimes uses them. His chief weakness is not falling on the ball.

A. Drage (centre three-quarter)—Improving. He still lacks confidence.

J. Fowler (forward)—When he can use his hands as well as his weight, he should be good.

F. Furr (right-wing)—On the whole, rather disappointing. He lacks real keeness.

G. Reid (full-back)—He can field the ball well, kick with both feet and tackle; the pity is he allows so many things to distract him.
R. H. Brown (forward)—He has improved his handling. He must improve his tackling and learn to fall on the ball.

S. Smeathers (forward)—A good forward, hard-working and quick on the ball.

W. Whittaker (forward)—Improving. He has a good wind.

A. Pickford (forward)—He uses his weight but not his hands.

R. Austin (forward)—He is the right build but inclined to be lethargic.

R. Lansberry (forward)—Improving. He could do with more confidence.

"Under 14" XV

F. Partridge (full-back)—A neat kick, a fairly safe catch but still a weak tackler.

C. Hanwell (right-wing)—Tackling still weak, falling good but has a good deal to learn.

R. J. Sanders (scrum-half)—He has a good pass out but is slow.

N. Bennett (scrum-half)—He should improve with more experience.

T. Collins (full-back or forward)—Very keen and improving.

H. Gardiner (left-wing)—Disappointing. He does not seem to improve.

G. Ekins (forward) and on his day a good one.

E. Warren (forward)—Improved a good deal, a neat hooker.

F. Walden (forward)—very quick on the ball. He has a tendency to hang about off-side.

E. Mitchell (forward)—A very fair dribbler.
S. Cleaver (forward)—Improved a good deal. He can tackle.

J. Beatty (forward)—He gets the ball but does not use his brains.

F. Maycock (forward)—He has picked up the game well.

MATCHES.

A dry windy day. The school started well and scored early. The scrum-half's passes were wild and the fly-half ran in too much among his forwards. We had one lucky intercept.

A dull day and a heavy ground. We had little excuse for losing; the forwards got the ball but the threes lacked determination in their running. Daventry won by loose rushes which were not checked.

Under 14 v Blackfriars. Away, lost 3-14.
A good game on an icy cold day. The forwards were not getting the ball and the threes made little ground. The forwards were good in the loose, but though attacking, failed to score.

A dull day and a life-less game. Our backs were poor in attack and not safe in defence. The binding in loose scrums was not tight enough.

Under 14 v Oakham. Home, won 8-0.
A wet ground, a slippery ball and two well-matched teams. Our passing movements were well frustrated by good tackling by Oakham. In the second half the forwards pressed and scored.
We were rather out weighted forward and so did not get the ball. The forwards, however, stuck to it well but though pressing, failed to score. Weak tackling on the wings allowed the score to mount up.

Under 15 v Towcester. Away, won 63-0.
An encouraging display though we were flattered by the weakness of the opposition. The first away match won this term and for prestige among other schools away matches are more important than those at home.

Under 15 v Kettering. Home, won 30-5.
A heavy storm had made the ground unfit for passing movements. Again, a weak opposition flattered us; but as it was we lost ground repeatedly by failing to fall on the ball.

GENERAL REMARKS.

The "Under 14" team as a whole took some time to settle down. We had a new full-back and new halves to find. The forwards are light but good in the loose and have improved their tackling and falling on the ball. The outsides have not up to the time of writing been as forceful and dangerous as they should have been.

The "Under 15" team has got together fairly well and are now probably in their right positions. Unfortunately they have not this term been tested against good opposition. When every man can be relied on to tackle low and fall on the ball it will be a good team.

The school football has improved enormously. We should like to thank Mr. Burke for so ably and willingly refereeing our home matches when he can. If boys stay on for a year or two after 16, there should be a reasonably good 1st XV in two years time. Hard, low tackling and quick falling on the ball should be the hallmark of school football.

G.H.C.
CRICKET. SEASON 1932.

Captain: L. CALIF.

Of the eight "under 14" matches arranged with other schools, three were cancelled owing to bad weather, four were lost, and one was drawn. Our losses were due mainly to lack of experience and indifferent batsmanship. The bowling was adequate, and the fielding good and keen. Two people deserve mention, Collins, who puts his heart and soul into his bowling and keeps a consistent accurate length, and Callf, who is an efficient all-rounder.

The match against the Parents was won by the School. In this match Drabble made an excellent 40 not out.

The outlook for "under 14" cricket is bright. There is much promising material in the school, and most of last year's "under 14" eleven are available.

TABLE OF RESULTS.

July 6. v. King's School, Peterborough away. King's School 130, School 25

Half-colours were awarded to L. Callf.

The House Cricket Cup was won by the Stags.

E.L.H.
6th WELLINGBOROUGH (GRAMMAR SCHOOL)
SCOUT TROOP.

School Scouts have been in existence for two years. The Troop is now thirteen strong, forming two patrols. Actually, five camps have been held this year, of which the Troop Camp took place at Bramcote Hall. Three scouts have passed their second-class, and one has got his swimmer's badge.

MUSICAL SOCIETY.

Officers:
President: The Headmaster. Secretary: Bond.
Treasurer: Mr. Hole. Librarian: F. C. Gent.

The above society was founded this term and now counts thirty enthusiastic members. Three small concerts and a gramophone recital have already been given by members, the programmes including works by Purcell, Bach, Handel and Beethoven. A library has been formed and it is hoped to bring out a journal in the near future. The society was founded to promote musical talent and appreciation in the school and the prospects for good progress on these lines seem very bright.

B.W.A.

DRAMATIC SOCIETY.

Last Easter Term, the School Dramatic Society gave three one-act plays which were a great success. The special feature of the performance was that the boys did so much themselves. They built the moveable flats and the members of two forms wrote a one-act play entitled "Dust." Two boy electricians managed the three-colour lighting and dimming apparatus, while the stage-hands under their own stage-manager handled two changes of scene. We shall greatly miss Mr. J. F. C. Brown in any future shows. His was the inspiration and hard work, which made success possible.

The Society hopes to hold informal meetings from time to time with a view to practising for some future public performance. The present secretary is C. Edwards.
BOXING.

A Boxing Class was started last Summer Term under the tuition of Mr. Jacques, of Wellingborough. At one time or another about twelve boys have been on the attendance book and those who have attended regularly have had their reward in increasing skill and physical fitness. Unfortunately the average of attendance has been about five. It is true that the hour at which the class has to be held is rather awkward for out-of-town boys, but it will be a great pity if such a class, once started, be allowed to drop through merely for lack of support from members of the school.

---

HOUSE NOTES

DRAGONS.

*House Masters*: Mr. C. W. F. Laurie. Mr. I. J. Nicholas.

*House Prefects*: Lawrence, Sears, Fowler, Stock.

The past terms for this House have been moderately successful, although nothing brilliant has been accomplished, but we have made a good start.

Our rugger team last year, won one and lost two house matches; Edwards, Reid, Fowler and Lawrence were the outstanding men, the forwards not playing together enough to achieve great success.

In cricket again, we lost two and won one match.

On Sports Day we were placed third in the championship table. Reid and Lawrence were 1st and 2nd respectively in the 2½ miles. Most of our other points came from successes in the heats.

This year we hope our rugger will improve under the guidance of Mr. Nicholas, and we shall strive hard to win the Cup.

We congratulate Stock on winning the English Prize for summer holiday work.

Members of the House who have played in the School XV’s are, Fowler, Edwards, Lawrence, Reid and Bennet.

Lawrence and Edwards have received half-colours.

We would like to welcome newcomers to the House and enlist their support in House affairs.
Gryphons.

*House Masters*: Mr. A. Perkins, Mr. G. D. Page.

*House Prefects*: Smeathers, Drabble, S. Sanders, Scarr

We had a fairly successful season in cricket last term, but we were unlucky, just losing to the Stags by nine runs after an exciting match.

In the Athletic Sports last term we were well represented, and we must congratulate Gardiner on winning the "Victor Ludorum" medal for the seniors.

This term there has been little of importance to record, but we are shaping well at rugger, and we hope to do well in the House Matches. In rugby, the following from our House have played for the School XV's:— Sanders, Gardiner, Drabble, Smeathers, Walden, Judkins, Collins, Findley, and F. Partridge. We are fortunate in having the School Football Captain, Sanders, in our House.

Smeathers was the first of our house prefects to be made a school prefect. Drabble, this term, has became a house and school prefect.

Generally speaking, our members are enthusiastic supporters of their house, but just a few are not "pulling their weight," and we look to the seniors to set a good example to the juniors, and to build up an honourable tradition for our house.

Lions.

*House Masters*: Mr. E. L. Hole, Mr. J. G. Dunning.

*House Prefects*: Pickford, Jackson, Drage,

The Lions, though an enthusiastic house, have not distinguished themselves so far in the games. There is every prospect, however, of a strong house XV this year. The following have played in the school XV's:—Jackson (half-colour), Drage, Hanwell, Pickford, Warren, Mitchell, Sanders, R., Brown, R.

Last term we suffered in cricket and athletics from lack of individual talent, but in spite of our lowly position, the spirit shown was admirable.
We should like to congratulate Hunt (past member) on winning the IVa English Prize, and Remmington winning the IIIa Form Prize.

Last year the Lions ran the first house Social in the history of the school; this term's house Social was held on Thursday, Dec. 1st.

The house is determined to make its presence felt this term. Only by an effort on the part of everybody can this be done however. We cannot leave everything to individuals. Let everyone continue to pull his full weight, and the hopes of a successful year will be very bright.

STAGS.

*House Masters:* Mr. G. H. Clayton, Mr. B. W. Appleby.

*House Prefects:* Callf, Brown, Furr, Sutcliffe.

We offer our congratulations to Brown on winning his School Certificate; to Bond on being elected Secretary of the Musical Society; and to Pack on carrying off the III form Language Prize.

The members of the Stag House that have played for the school cricket XI were Callf, Gowen, Sutcliffe, Warner, Gambrell, Sawford and Furr.

The following have played for the two school rugby XV’s:—Callf, Furr, Gowen, Ekins, Lansberry, Whittaker, Maycock, Beatty, Siddons, and J. B. Shortland.

Ekins represents us in the Boxing Class.

We are the proud possessors of all the Sports Cups, which we won fairly easily.

Our successful social held last December is shortly to be repeated.

On Sports Day, at the end of the Easter Term this year, our junior relay team was first; members, Callis, Ekins, Gambrell, and Laughton. Brown won the open long jump and high jump. Gowen won the under 14 high jump. We congratulate Laughton on becoming the Junior "Victor Ludorum."
School Entrance Hall.
SCHOOL PRIZES.

R. J. BROWN. School Certificate and Prize.

IIIa (SEARS) Maths.

IIIa (HUNT) English.

IIIa (PACK) Languages.

IIIb (CLARK)

IIIb (SHEPPARD)

IIa REMMINGTON

IIb R. HARRIS

IIc DAY

I R. BOWERS

STOCK Miss Cooke's Prize for English.

FOWLER Photography Prize.

THIS SCHOOL. A.D.—2,000?

As the 8.45 a.m. bell rings, there is a light buzz of engines as swarms of small aeroplanes descend upon the school roof. Boys wearing school caps get out and tread upon moving staircases and are taken to their respective class-rooms. Their desks are masses of wireless and electrical apparatus. On sitting down the pupil fits on his head a small black iron cap, which sends his thoughts to the master who is seen on the screen. This person is in his study and is perhaps taking four classes at once. As soon as the pupil allows his thoughts to wander, an electric shock, sent automatically into the seat of his desk, gently reminds him where he is.
He never actually writes, this is where the mind machine comes in again. On his desk is clamped a sheet of paper with a pen above it, the nib of which is made of a substance that very rarely wears out but at least supplies ink or something like it. When he wishes to write, the pupil simply pulls over a switch and his thoughts are written on paper. Woe betide the person who forgets what he wishes to write!

At lunch time he eats tablets of food that look like white soap. These contain the vitamin B's and the nourishment that is in ordinary food but compressed into these cakes.

When the pupils have to go to the Head, they ring a bell on the study door and it opens. The Head is not at all exhausted by the work he has to do. He simply sits in a chair and regulates the power of the shocks by a small switch.

Below in the cellars, huge turbines are working away at top speed, supplying electric light and heat. There are no longer the old fashioned boiler and pipes method of heating, although in one cellar there are still relics of these articles.

As soon as the four o'clock bell rings the pupils go out to their aeroplanes; the turbines stop and everywhere is quiet. No maids go round and sweep up; this has been done by vacuum cleaners already and the school is closed.

Boswell (IVa.)
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CROSS COUNTRY.

The two and a half mile (under 14) Cross County Race was run on Thursday, March 31st. The day was fine but the going was heavy owing to the previous rains, and in consequence the leaders did well to be so near to last years time, the winner only taking 1 5/6 sec. longer.

The runners kept fairly well together as far as the Butts. Between there and the brook, the field opened out remarkably well thus giving a fine sight for onlookers, as the brook was very high.

From the brook to the end, there was a keen run. The first dozen or so responded well to the encouragements to put on a spurt and get in with the first ten home, for the extra points for their Houses.

Result:
1. Reid. 2. Lawrence. 3. Collins. 4. Walden.

ATHLETIC SPORTS.

The Second Annual Sports were held on Thursday, April 7th. The weather was poor, and in addition to being very cold, there was a gale accompanied by hail and rain. This made things decidedly uncomfortable for both competitors and spectators.

The opening race, the 100 yards (under 14) was won by Gardiner, and the second race 100 yards (under 12) was won by Laughton. These two runners were prominent in after events and were the respective winners of the Senior and Junior “Victor Ludorum” medals.

The 220 yds (open) was purely a Gryphons’ affair owing to the lack of entrants; this gave them a lead in points which they maintained through the Relay Races and the other individual races until the Long Jumps, which were the final events.

The stags at the end of a much interrupted and delayed programme did exceptionally well in the Long Jumps and in triumph they carried off the House Cup. The medals were distributed by Mr. Hedger Edwards.
This year we are hoping to have a re-arrangement of the programme. The cross country, mile, half-mile and possibly the quarter mile may be run at the end of the Easter Term, and the sprints and jumps in the Summer Term. A.P.

CINEMA SHOWS.

We have to thank Mr. Page for several cinema shows this term. He has produced some very good and entertaining programmes, and we shall not soon forget the "Battle of Balaclava" and the wild charges of the Cossacks in "Michael Stogoff," or the Pirates great battle in the Bahamas in "Captain Blood." Some of the Empire Marketing Board films were of great educational benefit; the one about the herring fleet gave us some idea of the "night life" of the fishermen; and we obtained excellent ideas of conditions existing in South Africa and Canada from the films of ranching and lumbering. All this will be incomplete if we omit to mention the wild enthusiasm still shown for Charlie Chaplain. We understand that Mr. Page hopes to use the profits on the Shows, to go toward the purchase of a cinematograph for the school, and meanwhile we are grateful for the use of his own machine.

ART AND PHOTOGRAPHIC COMPETITIONS.

Encouraged by last year's successful Art Exhibition, we decided this year to organize competitions for work done during the Summer Term and holidays.

In the Art Section, several works were submitted, of quite good standard, but, in the estimation of the Judges, not quite worthy of a school prize. Remmington (IIa) and Edwards (IVb) sent in work worthy of "honourable mention," and if they continue to try, there is no reason why they should not at some future date carry off the prize.

In the Photographic section, there were two competitions, one for the Whipsnade excursion and the other for photos taken during the holidays. The winner of the former was A. Pickford (IVa) who submitted an interesting series. In the latter competition a much higher standard of work was reached, many of the entries being of high quality. The judges finally awarded the prize to Fowler (IVb) and commended the work of Stock (IVa)
CAREERS IN ENGINEERING.

Can engineering as a career be recommended to a boy to-day? If the boy has keeness and industry, and is not likely to be content to be a mere "machine minder" instead of a creative engineer, I think it can.

Frequently, ability in constructing Meccano models, in stripping and even reassembling the family car, or mending the alarm clock, are taken to denote a "bump" for engineering which should be encouraged. Far more important is the way in which the boy tackles his mathematics, and the theoretical side of his school science. These latter matters are much the more important factors in deciding as to the fitness of a boy to pursue an engineering course. Many firms take great interest in the book work of their apprentices, and even afford facilities for more study. They realise, as the boy should realise, that practical knowledge is not the only qualification for constructive engineering. Matriculation or its equivalent is essential for a boy who has aspirations to the highest positions in the engineering world.

Prospects differ in the various branches of engineering, and it appears that electrical engineering, electricity sweeping the world as it is, offers the best scope, whilst mechanical engineering is at any rate temporarily very crowded.

ELECTRICAL ENGINEERING.

The prospects here are bright, the electrification of railways and industry for countryside, opening up wide fields to the enterprising man. A thorough investigation of the working conditions of the firm into which a parent contemplates sending his boy should be made, so as to ensure him receiving the best training during his apprenticeship.

For information write:—
Institute of Electrical Engineers,
Savoy Place, Victoria Embankment, W.C. 2.
CIVIL ENGINEERING.

A civil engineer needs a working knowledge of all engineering. Preparation for the career should include the study of physics, chemistry, mineralogy, economics, and mathematics.

The Council of the Institute of Civil Engineers conduct exams for the A.M.I.C.E. (associate membership), and M.I.C.E. (membership). Part of the course must include practical work. There will always be room for qualified civil engineers on our railways and in our towns.

For information write:
   The Secretary,
   Institution of Civil Engineers,
   Great George Street, Westminster, S.W. 1.

For a successful career as a mechanical engineer, a sound theoretical and practical knowledge leading to membership of the Institute of Mechanical Engineers, M.I.M.E. is essential.

MOTOR ENGINEERING.

This branch makes a great appeal to the normal boy, and he can generally get into a firm as an apprentice without a premium; but he must study hard to obtain a theoretical knowledge if he is to succeed in making a paying career. Our motor trade is expanding and has increasing prospects for good engineers, but the futility of practical knowledge alone is only too obvious in the amount of unemployment.

For information write:
   Institute of Automobile Engineers,
   Watergate House, York Buildings,

In conclusion, the scope of engineering is expanding, but like all other professions, only the best qualifications secure good posts. A school certificate or matriculation forming the basis of later specialised study is the best foundation for a successful career.

J.G.D.

[It is hoped to run a series of articles on careers, which may be of use to boys and parents.]
HOWLERS.

B.C. Before Christ.  B.A. Before Adam.

Queen Elizabeth was the longest Queen on the English throne.

King John ground the people down under heavy taxes.

Queen Elizabeth had a peaceful reign—she never married.

In Henry VII's reign the turbulent barons received a cheque from the King.

In Elizabeth's reign parliament frequently interfered urging the Queen to marry; a thing it would not have dreamt of doing in the reign of Henry VIII.

The Menai Straits are crossed by a tubercular bridge.

Britain has a temporary climate.

The winds are dejected owing to the Earth's rotation.

The Tundra is a belt worn by Indians.

Master: Have you ever heard of Habakkuk.
Boy: Please Sir, I think he is a new boy,
HOLIDAYS AT FAIRLIGHT FARM.

Wee Billy Brown's a country boy
He cares no more for game or toy,
And school just now's a thing he'd hate,
He loves to swing upon a gate,
And watch the geese lurch down the lane,
Then watch them waddling home again.

He loves to milk the sleepy cow;
And when the farmer grumbles how
"Old Blossom's been and cast a shoe,"
Wee Billy knows just what to do.
Across old Blossom's back astride,
To Peter's forge he'll take a ride.

The Smithy's such a jolly place;
The Smith has such a friendly face,
His bellows roar so splendidly.
No man can smite as hard as he,
None has such a mighty arm,
At least no one at Fairlight Farm.

Wee Billy Brown's a lucky boy;
Wee Billy's trembling now with joy;
For in five minutes he will see
The first old twisted walnut tree,
And then the blacksmith's swinging arm,
And then the roofs of Fairlight Farm.

To-night he'll dream of ducks and chicks,
Of baby lambs and giant ricks,
Of birds and nests in leafy trees.
And all such magic things as these,
Then wake,—the loveliest thing to do,
To find his dreams are really true.

C. Hanwell (IIIa)
IN THE WOOD.

Once, there was a boy and a girl walking through a wood and they lost their way and the little girl began to cry. Her brother Bob said "Don't cry and I will find the house of the Old Lady of the Wood, and she will show us the way home." So the little girl stopped crying and they went further into the wood and presently came to the Old Lady's cottage. They rapped on the door till the Old Lady opened it and then they told her that they had lost their way.

So the Old Lady said "Come along in and if you do some work for me I will show you the way home and give you a present." The little girl said "I will scrub the floors and Bob can fetch in sticks." Each of them started on their tasks, the little girl with soap and bucket of water, and Bob went to the barn for the wheelbarrow which he soon filled with sticks. In about an hour the Old Lady said "Go upstairs and fetch me the two boxes that are beside my bed." Then she gave them each a box containing a present, and then showed them the way home.

D. Groome (Ilc).

CAUGHT NAPPING.

It was a hot sultry afternoon, the kind of afternoon that made everyone very sleepy. Much to Tommy Jones' delight, the local village school had a half holiday, and there was only one problem that remained in Tommy's mind as he strolled carelessly down the street, and that was, what should he do? Should he go and play football with the other lads?—no—on second thoughts he decided it was too hot. "I don't know what...ah! I've got it, I'll pay a visit to Farmer Hogg's orchard," and with these words he trotted off to the place he had determined upon.

Arriving there five minutes later, he carefully scaled the wall and alighted in the orchard. Panting a little he made for the nearest apple tree and in a few seconds he was hidden in the foliage. Quick as had been, Farmer Hogg's eyes were quicker, for from his house he had had an excellent view of
what had taken place. Taking a model of a dog, he crept out and placed it under the tree. After a quarter of an hour had passed Tommy gently slid down the tree trunk, covered with the signs of a meal of apples, and catching sight of the dog, let out a yell and ran for all he was worth, but to his surprise he never so much as heard a bark behind him. Recovering a little, he turned round, and stared, and then a huge grin appeared on his face as he realized that it was a dummy! Climbing the wall in feigned terror, he ran home and fetched his pet dog Fido. Arriving back at Farmer Hogg's premises he ran to the front door and rang the bell to attract the farmer's attention. Then he went back to the orchard and taking the dummy away, he placed Fido underneath the tree, and gave him a bone, and so up he climbed into the tree's branches.

Presently the farmer emerged into the orchard laughing fit to choke himself; at that moment Fido set eyes upon him, and rushed madly at him. "Help! I'm seeing things" he shouted "My dummy has changed into a real dog" and with these words he dashed into the house and bolted the door. Tommy came down from the apple tree and made good his escape with tears of laughter rolling down his face. He had had a jolly afternoon!

Loomes (H1a).

THE EVOLUTION OF A MOTOR CAR.

All the parts that go to the making of a car engine and chassis are cast in the foundry, then they go to the high precision shop where the metal is smoothed and machined to fine limits determined to thousandths of an inch. Then the parts are stored in great store rooms which cover acres of ground. The most complicated parts are the engine, gear box and back axle. The back axle casing is carried along on slow moving bands in the assembly shop. Each man adds to it as it comes level with him; bit by bit, the axle grows until the differential and propeller shaft are fixed; then the body springs and brake shoes are fitted. The finished axle slides from one band to another and is carried to the frame,
The front axle also approaches, and the engine comes along on a little trolley, getting nearer to completion as it nears the frame. The engine starts as a rough cylinder block, which is mounted in a machine which bores, drills, shaves and polishes the block. The block then moves along a roller track, and stops whilst the valves, springs and pistons are fitted. The oil sump and gear box are bolted on, the exhaust is fitted and the engine is pushed to the test bed on a trolley, where it is coupled with an electrical machine, a dynamotor, which makes the engine turn at different rates. The carburetor is fitted and connected with a huge petrol tank. Then the engine is run under its own power. Thence is passes directly to the frame.

The back axle and front axle are joined to the frame, and old wheels without tyres are fitted. The chassis is then hoisted on to rails and these tyreless wheels just fit the rails. On these rails the chassis travels to the painting shop, the engine and steering gear being fitted meanwhile; the carburetor is removed whilst the chassis is painted.

In the paint shop the chassis is clamped on to a platform that can be tilted and the shop is heated to expedite drying.

After this process the chassis is fitted with proper wheels, petrol tank, carburetor and sump, and a temporary seat for the tester. The car is then taken out on to the road and thoroughly tested by a man whose trained ear, listens for noises which indicate defects.

On his return he makes his report, and if favourable the car goes forward for completion. Bodies, mudguards, stamped out of sheet steel and ready painted are adjusted Floorboards, seats, windows are then fitted and the car goes to the accessory room for wind screen wiper, horn, tool box, etc.

Then as a finished car, glorious in its polished state, it passes on to the distributors and eventually to a proud owner.

Ford (IVa).
THE LONGEST RAILWAY TUNNEL
IN THE WORLD.

The longest railway tunnel and one of the most enterprising borings in the world is the Simplon Tunnel on the journey through the Alps to South of Switzerland and on the route to Italy. It is twelve and a half miles long and was completed on February 24th, 1905, after six and a half years' work, costing 15½ million pounds.

It consists of two parallel passages, 10½ feet wide. It is over 2000 feet above sea level and from 5000—7000 feet below the summit of the mountain it burrows. It is a straight track except for a slight curve at the northern end.

The chief difficulties in construction were the intense heat (often as high as 110° F) and hot springs which turned the tunnel into a canal flowing at the rate of 1000 gallons per minute.

To overcome the atmosphere cold water was pumped into the borings, through pipes pierced with holes so that the water sprayed the men at work.

During the construction of the tunnel sixty one men were killed and many injured by rock falls.

D. Lawrence. (1Vb.)

CHAMBER CONCERT.

On Thursday, July 21st, an enjoyable Concert was held in the School Hall, a very high standard of performance being reached in both instrumental and vocal items.

Those taking part were, Miss Wyldes, L.R.A.M. (Violin), Mrs. G. J. Cox (Violin), Mr. H. A. Elks (Viola), Mr. A. J. Palmer (Cello), Mrs. F. J. Thorpe (Piano), Mrs. J. C. Gent, Mr. J. C. Gent, Mr. E. L. Hole, and Mr. J. F. C. Brown.

A collection on behalf of the local unemployed raised the splendid sum of £5 7s. 0d.

It is hoped to hold another such Concert on February 15th, 1933.
THE EXCURSION TO WHIPSNADE.

On June 3rd the School paid a visit to the new Zoo at Whipsnade. It was a fine morning and the trip there in the bus was enjoyable and we reached our destination at about 10.20 a.m. The first thing we did was to divide into parties.

Each party took a different route and on our way found a Kiosk where we could eat the lunch we had taken. Those of us with cameras took photographs of the different animals and birds.

We could buy chocolate and ice cream and films, and these pleasures, along with a ride on the elephant added zest to an eventful day.

The day was glorious, and we thoroughly enjoyed our wanderings in this delightful park, seeing on our way nearly all of the animals in a setting rather more appropriate than the Zoo in Regents Park.

Our return journey was rapid and we arrived home at about 7 p.m. after a day long to be remembered.

Tilley (IVa.)

THE PHANTOM THIEF.

The Chief Inspector of Scotland Yard was very worried about a thief who travelled about on his almost silent motorbike and who held people up on the highway. The police had followed him many a time but he had vanished and not one clue did he leave to let the police know where he went to.

The Inspector got so worried that he sent for his best detective whose name was Jack Tracey and his boy assistant whom he called Greaser. The Inspector told him about the Phantom Thief as they had named him.

That afternoon Jack Tracey and Greaser left London for a little village of Haxton where the Phantom Thief had been seen last. They met an old farmer in the village inn named
Farmer Hayden who told them it was not safe to ride on the main road so he told them to take a back road which led to another village further on.

Jack and Greaser took the back road and as they went up a motor bike flashed in front of them so that they were forced to stop. When they stopped the man covered them with a gun and demanded all their money. Jack got out of the motor but Greaser stayed inside so that the thief could not see him. Greaser picked up a heavy bar and hurled it at the Phantom Thief, it missed him but he thought the police were there so he grabbed his motor bike and rode away. Jack immediately got into the car and followed him. When he got over the hill the Phantom Thief had vanished, Jack went one way and Greaser went the other but they were convinced that he must be hiding under the bridge on which they stood. They looked but there was no one there, but they found some tyre marks. They followed them and they came to a small waterfall which the tyre marks went through. Jack walked through and found himself in a small cave. When Greaser came they explored the cave and they found the Phantom thief’s motor-bike. They saw a ladder and they went up it and found themselves in a bedroom. In a few minutes a man appeared and it was Farmer Hayden. Jack lit a match and put it to Hayden’s beard, Hayden staggered back and fell over a chair; his wig and beard came away and disclosed the features of the young man that had held them up. That night Jack and Greaser returned to London and with them went the Phantom Thief, alias Old Farmer Hayden.

G. Billing (IIIb).

OUR TREE COLLECTION.

The original idea was to have a belt of trees such as larches round the school playing field. The suggestion was then made that it would be more interesting to collect different kinds of trees. Thanks to a very generous response indeed from parents we have now nearly fifty different kinds and several donors are on a waiting list as the demand is not easy to supply now that all the commoner trees have been taken. A large-scale chart has been framed and hung in the school, shewing the name, position, and donor of each tree.
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