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Editorial.

TO a school which, like the Liverpool Institute, is situated in the centre of a large city, the boundaries of which are ever extending themselves further and further into the open country, the difficulties in the way of an adequate provision for its athletic needs are considerable. The first necessity is, of course, a ground. After many wanderings, the School has now at last secured a playing field sufficient for its needs. With the provision of the ground, however, we were also confronted with the necessity of building and equipping a pavilion sufficient for the School's needs. About three weeks from the end of the term the Headmaster laid his scheme before the School. Until the School authorities should think fit to endow the School with a pavilion, the boys of the School were to be entrusted with the duty of raising sufficient money from themselves, their parents, and any Old Boys of their acquaintance, a sum sufficient to build a pavilion adequate for the School's immediate needs.

The Headmaster himself generously promised to add 5 per cent. to all the School collected, and several masters have followed his example in respect of their forms. Up to the present, ten days after the scheme's initiation, enough money has been raised to justify the Headmaster in giving an order for the pavilion, a plan of which has been posted up. If, however, the water and light supplies are to be perfected, and other adjuncts to the pavilion provided, such as an enclosure, scoring board, and sighting screens, a further sum will be necessary. It is hoped that at the beginning of next term the pavilion will be ready. Still we appeal to any Old Boys, or others interested in the School, who may happen to read these lines, not on that account to refuse to contribute any sum, however small, which they may be willing to give in aid of the School athletics. Subscriptions may be sent to Mr. Parkes, the Treasurer of the Games Committee, and a collecting card may also be obtained on application. We heartily thank all those who have already helped us with their contributions.

Another department of the School life which has shown signs of vitality this term has been the Cadet Corps. Strong both in numbers and enthusiasm, they ought to make it their object to rival in shooting, drill, and appearance any Territorial Corps in the city. They are not an officers' training corps, because the War Office insists on attendance at Aldershot every year for camp. However, whether an officers' training corps or not, they can still be none the less proficient in their duties. We appeal to the School to show their interest in the corps by providing as many recruits as are required at the beginning of next term.

Hobby Show.

ON December 21st, the "Hobby Show," which has now happily become an annual institution, was held at the School. A large number of parents and others accepted invitations to be present. In addition to the display of hobby work in the Woodwork, Physics, and Drawing Rooms, the hall was twice occupied by a dramatic performance, entitled "Spreading the News," an Irish comedy, by Lady Gregory.

The exhibition of hobbies was large and varied. It included collections of all descriptions—electrical and mechanical appliances, drawings and paintings, photographs, and various forms of woodwork. Some of the electrical machines exhibited showed great ingenuity and patience on the part of their makers. C. R. Bolton's arc lamp shone very refulgently, while W. Hill's was also successful in illuminating the surroundings. T. J. Brown showed an extremely ingenious and smoothly working electric railway, while C. Boyle's appliance for the transformation of an electric current displayed careful handiwork and a competent knowledge of the subject. Models of swing bridges constructed by C. H. Young and G. Verity were also cleverly and carefully put together.

The outstanding feature of the exhibition in Mr. Brierley's room was the work of H. W. Wallace, which comprised a large number of paintings on all kinds of subjects. All his paintings displayed an artistic and skilful treatment. Besides Wallace, W. J. Davies, J. Tranmer, and A. Gillespie showed up very good work in this section, which proved to be both popular and of a very high standard. A. K. MacPherson, late Colour-Sergeant of the School Company (whom we congratulate on receiving his commission in the Indian Army), showed some splendid examples of military sketching, while Stookes, at present Lance-Sergeant, showed some less ambitious ventures on the same subject. G. J. F. Young and A. S. Gillespie were the exhibitors of the best examples of map drawing. Most of the photographs displayed showed excellent taste and judgment, and the "Camera and Field Club" exhibit bore convincing testimony to the high standard to which the club has attained in its photographic department. Those taken by H. Allan, S. G. Sim, and R. H. Turner were particularly noticeable for the technical and artistic qualities. In every detail the exhibition conferred great credit on those who had contributed to its success. We desire, however, especially to thank the Headmaster for his generosity in giving prizes for the best specimens of the different classes of hobby work, and also Mr. Willis and the other members of the hobbies committee for the readiness with which they gave their invaluable help and suggestions.

HOBBY SHOW PRIZES.

MAP DRAWING.—1st, G. J. F. Young, IVc.*

„ 2nd, A. S. Gillespie, IVb.*

PHOTOS.—1st, Harry Allan, Va.*

MECHANICAL APPLIANCES.—1st, J. C. Brown, IVc.

FRETWORK.—1st, R. Holt, 6a.

DRAWING.—1st, H. J. E. Wallace, IVc.

* Previously awarded.

Dramatic Performance.

AN important feature at the Hobby Show was the presentation by some members of the School of a comedy by Lady Gregory, entitled "Spreading the News." Two performances were given during the evening, and each attracted a fair audience. The comedy was part of the modern movement to revive the old Irish literary life, and to awaken interest in the thought and manners of the Irish peasantry. Its plot was simple and closely akin to the game of Russian scandal. A rumour, arising at first through an old woman's deafness, was spread abroad that Pat O'Neill had been killed in a fight with Bartley Fallon. The latter was accused of the crime and arrested, and when Pat O'Neill appeared on the scene, he also was arrested for false impersonation and marched off to the police station.

Such, then, was the plot, and it must be admitted that in its ending at least it was rather weak. More ambitious attempts in previous years have been so successful that it was rather a surprise to many that this play, simple as it was, was chosen. However, be this as it may, the individual acting and staging, quite sufficed to obliterate all feelings of disappointment. T. B. Sye as Bartley Fallon, was to use a somewhat slang phrase, "great." His was by no means an easy part to play, and yet throughout he maintained his dismal pessimism so successfully, as to win the sympathy of his audience. R. Coope was quite good as Mrs. Fallon. He was, perhaps, rather stiff, and was, as is natural in a male impersonation of a female character, at a loss what to do with his hands. His indignation over his "mau's" mishaps, was quite worthy of any virtuous and hardly used woman, and he quite relieved the tension by his vigorous treatment of the scandal-mongers. V. MacCartney made an excellent Pat O'Neill. It cannot be said that he had a part easy to play, and yet he put a vigour into it that made up to a great extent, for the general stiffness of many of the others. Now, we come to Mrs. Tarpey, the cause of all the trouble, who, as impersonated by Breckell, was quite

as deaf and as dense as the writer of the play could have intended. She was the most natural character on the stage, and her "Irish" was a credit to any inhabitant of the Emerald Isle. She made a typical small tradeswoman, sharp, when necessary, and on occasions proving herself as impenetrable as could be desired. Breckell is certainly to be congratulated on his representation of the venerable Mrs. Tarpey. Shawn Early, Tim Casey, James Ryan, and Mrs. Tully, whose parts were taken respectively by L. R. Davies, J. R. Cumming, E. Murphy, and A. H. Cunningham, played a most unimportant part in the plot, but were fairly well represented. The policeman, Joe Muldoon, was S. Kiinmonth, and he might make quite a valuable adjunct to the noble profession, whose traditions he nobly maintained that night. We have left the one English character until the end. D. A. Machray, as the "Removable magistrate," had a rather easy part to play, but he put a good deal into it, and made a typical "new brush," whose supposed duty is to "Sweep clean." The school are to be congratulated upon maintaining so well, the high traditions, which have been set in dramatic performances.

Chat on the Corridor.

FOOTBALL this term has been carried out under difficulties. A succession of wet Wednesdays rendered progress in the Horsfall Cup competition very slow, and, therefore, it was decided to change the conditions. The League system was given up, and a "knock-out" competition by rounds substituted. In the first round VIa., VIb., VIc., 5b., and 5c. were successful, while Rb. received a bye. The second round should have been played on March 24th, but on that date the weather was such as to permit of nothing but an abandonment.

We congratulate Mr. Richard Burn on being the first old boy of the School to be awarded the Kaiser-i-Hind gold medal. In his case the distinction was conferred for his exertions during the famine in India.

Mr. Justice Bigham has been appointed President of the Probate, Divorce, and Admiralty division.

H. D. Lewis has passed the first Veterinary Professional Examination at Liverpool University. He obtained first-class honours in Anatomy, and second-class in Biology and Chemistry.

A. K. Macpherson, for two years Colour-Sergeant of the Cadet Corps, has received his commission in the Indian Army, and is now serving with the Berkshires at Meerut.

The Choir is now engaged in rehearsing Mendelssohn's oratorio "St. Paul." At present there is a great dearth of tenors, and any volunteers will be welcomed.

During the Easter holidays a party of boys from the School is going to accompany the Headmaster on a trip up the Rhine. The same district was visited last Easter by a similar party. We wish the Headmaster and his fellow travellers as good a time as their predecessors enjoyed, and would venture to advise them not to defy the authority of the German policeman by walking on the grass, particularly should they happen to visit a well-known university town between Cologne and Coblenz.

In the Cambridge Senior Local Examination, held in December, F. J. Roberts passed with first-class honours, and J. McWilliam with second-class honours. F. J. Roberts also obtained distinctions in Greek and Latin.

Competition for the Headmaster's Cup for Junior School Forms has been very keen all through the football season. Although several Wednesdays have been very wet, and the games consequently postponed, there has been on an average four or five games played weekly. 4a. and 3b. are at the head of affairs with 18 and 19 points respectively. They would have decided the destination of the cup on March 24th, but the weather again interfered and caused a postponement. Several promising young players have been unearthed in these games, one of whom (MacKenzie) now plays for the first XI. Next year both elevens ought to be able to find plenty of material from which to compose the School teams.

A groundsman has now started work at Greenbank Lane. A new roller and grass-cutting machine have been bought, and the horse for their propulsion is daily expected.

BIRTH.—On February 18th, at the Grammar School, Hinckley, the wife of G. E. S. Coxhead (née Kelly), a daughter.

Literary and Debating Society.

ON December 8th, Mr. Hickinbotham in the chair, Sye opened a discussion on "Conscription." He emphasised the fact that no previous nation had maintained itself in the high pitch of prosperity to which it had attained, and declared that Conscription under some form was the only system under which England could hope to maintain her supremacy. He eulogised the action of such men as Lord Roberts in supporting universal service, for this showed that its advocates were not merely theorists, but

practical soldiers. Conscription did not necessarily involve a sacrifice of the most useful years of a man's life, but would instil in him a feeling of obedience to discipline, which would be of service to him in after life.

Ward, in opposing, quoted extracts from French newspapers to prove that Conscription was most unpopular in that country, but probably he would have produced a deeper effect if he had given them in their original language. It was equally distasteful to the Germans, and, in view of our colonial empire, it would be difficult to maintain an army for service abroad. Again, the navy must be taken into account, for men could hardly serve there to the same advantage in the same time as in the army.

The ensuing discussion, which was continued on the evening of December 14th, was exceedingly brisk, and eventually the motion in favour of Conscription was lost by 11 votes to 28.

On January 18th, Mr. Hickinbotham in the chair, H. A. Whittaker proposed "That modern literature is demoralising." He commenced by pointing out that at present there exists a common demand for some really great author. The present public demanded originality, and was not averse to an exaggeration or distortion of facts. He gave a brief summary of various kinds of modern literature, and the keen insight into, and the practical knowledge of, his subject was perhaps quite a painful shock to many members. He concluded with an extract from one of Andrew Lang's essays, and, despite his frequent assertions of ignorance of what he was talking about, his paper was keenly appreciated. Unfortunately he had brought out very few debatable points, and consequently the discussion somewhat lacked fire. The motion was lost by 12 votes to 14.

On February 2nd, Mr. Parsons in the chair, Inglis read a paper on "The defence of history." He first touched upon the extreme fascination which history had always played upon the minds and feelings of all generations, and pleaded that it was not without its practical importance, in that it was invaluable in the good government of the country. Nothing could be more useful than a knowledge of the mistakes and successes of our ancestors. It was perhaps excusable for some countries to feel no pride in their past, but surely England had every right to be proud of her heroes, who had made her what she was. As regards good government, he declared that an understanding of the results of past persecutions should save modern statesmen from falling in like errors. Continuing in the political vein, he reminded his hearers that history conclusively proved that Free Trade alone was the policy for success, and finally moved "That history is of supreme importance in school and national life." The following discussion grew rather personal, and often strayed far beyond the scope of the paper. The motion was carried by 12 votes to 6.

On February 16th, F. J. Roberts in the chair, Black proposed a motion in favour of the "Abolition of the House of Lords." He asserted that individually the Lords were harmless enough, but when banded together in the Upper Chamber they had proved themselves to be a distinct menace to the progress of reform. It was true that they were acting as a check upon the Commons, but he claimed that this check was too powerful a one, and had often resulted in the rejection of measures which had received the consent of the elected representatives of the people.

L. R. Davies, in opposing, was surprised at the poor case which the opener had brought forward. The Peers could not be such nonentities after all, for not only were there fully fifty members of the Lower Chamber who were of the highest rank of the aristocracy, but also by common consent the House of Lords had been made the Supreme Court of Appeal. Although he by no means considered the House of Lords perfect, the motion was, in his opinion, far too sweeping.

A good discussion followed, in which many members took part, and eventually the motion was lost by 16 votes to 20.

A special meeting was held on Thursday, February 18th, to consider the following motion, proposed by Goldstein:—"That this society should become a Parliamentary Debating Society, as far as was compatible with the treatment of literary subjects." He thought that by so doing the interest of members would be stimulated, while the difficulty of the treatment of literary subjects could be surmounted by the reversion on such evenings to the old order of things. Mr. Hickinbotham pointed out that so far as he could see the Liberal party would, under existing circumstances, possess a majority sufficient to maintain them in office till Doomsday, and it was around this question and that of the discussion of literary subjects that all criticism raged. The motion, however, was lost.

On March 2nd various impromptu debates were held, under Mr. Hickinbotham's chairmanship. A. Reid first proposed "That Mr. Hickinbotham abandon his Tory views and become a Socialist," which Masheder silently opposed. The next motion, "That the action of the Alliance Assurance Company in respect to Territorials is justifiable," was proposed by Mr. Parsons in an eloquent and humorous speech, and opposed by Ritson. The next motion, "That music-halls are injurious," was, to everyone's surprise, passed over in comparative silence by Cumming and Hutchison. MacNeill then shocked us by proposing "That our new caps should have a green and violet stripe on them like Blackburne House," though his reading of the motion was obviously not the intended one. He was opposed by Robinson. Moses then had the audacity to propose "That the chairman should be thrown out." a

form of punishment evidently too mild in Whittaker's estimation, for he urged that he should be "shot out." Book then proposed, "That cats should be taxed," showing quite a brotherly feeling on the subject, though Kirk, in opposing, affected to treat his remarks with silent contempt. "That this Society be governed by boys, but masters could come if they wished," was proposed by Breckell, and heartily opposed by Goldstein. Proceedings were here interrupted by the belated, but sensational, arrival of three members, one of whom, Collings, was at once called upon to move "That honesty is the best policy," which he did with his usual reticence, being opposed by Jones. Evans and Sibbitt then grew quite hot over the proposal to conduct the meeting in French, and the evening finished with the pathetic motion, "That I will with difficulty escape the lunatic asylum," a question which fitly fell to A. L. Turner, and Wigley.

On March 16th, with M. F. MacNeill in the chair, Goldstein read a most interesting paper on "The Aliens Act." He treated the question almost entirely from the Jewish standpoint, pointing out that the majority of the aliens concerned, were of Jewish extraction. He denied that the foreigner had ousted the British workman, declaring that immigration had proved most beneficial for England, for at the head of nearly every profession was to be found a foreigner. He then summarised the details in which the present Act differed from previous legislation in that direction. It was a Penal Act, making all who broke it liable to imprisonment, and destroyed the outstanding privilege of the British nation, that of free entry. It made a distinction between classes, taking money as the criterion of worth, and had proved a mere fiasco, in no wise combating the question with which it was supposed to deal. The motion he proposed was "That the Aliens Act fails to achieve the objects for which it was intended."

A fairly brisk discussion followed, and eventually the motion was carried by twelve votes to two, though all the members present did not vote.

Concert.

ON Thursday, 11th February, the School had the privilege of hearing a Chamber Concert, given by the Misses McCullagh. There was a good attendance of boys, but otherwise the hall was not so well filled as the merits of the programme and the performers deserved. Such opportunities of furthering the school life outside the classroom, might very well be accepted by parents and others

concerned. Perhaps, however, in some cases, boys fail to explain the occasion clearly to their parents.

Those who were present had the pleasure of hearing a delightful programme delightfully rendered. One of the disadvantages apparently inevitable to modern civilisation is the increase of noise, and, unfortunately, modern composers seem in their music to bow down and worship this tendency. Hence, a programme which is restrained and musical, classical and yet tuneful, is a welcome relief to many. The boys in the audience had had a preliminary explanation of the main themes of the instrumental music from the Headmaster, and no doubt found this of great service in following the performance.

It would be difficult to single out any particular item for special praise. The chief labour fell to Miss Helena McCullagh, the pianist, who was admirable both as accompanist and soloist: her clear and graceful playing of the two Scarlatti Sonatas was as enjoyable as anything during the evening. She also played an accompaniment arranged for the pianoforte, to Handel's Violin Sonata in A major, the violinist being Miss Isabel McCullagh, and the four movements, with which the concert began, gave a clear indication of the high quality of the concert. Miss Mary McCullagh's performance of some variations by Mendelssohn for violincello and pianoforte, was additionally interesting, owing to the fact that when Mr. Tovey gave his last musical lecture to the school, he chose the subject of variations. Let us hope that Mr. Tovey's explanations, although it is some time since we heard them, gave help to understand the variations, which were ably rendered by Miss McCullagh. Finally, the three ladies combined to give two movements of Hadyn's Trio in D major.

The vocalist was Miss Edith McCullagh, whose singing gave the very greatest pleasure. If the three old English songs, and especially the last one, "Come, lasses and lads," aroused more applause than the three songs of Schubert's she gave, no doubt it was because both words and music were more familiar to the majority of the audience: but Miss McCullagh was excellent in all. Both in voice and manner, she showed she has considerable talent.

The School, by applause and hearty cheers, shewed it appreciated the kindness of the Misses McCullagh, in performing a programme of such quality, with such obvious readiness and enthusiasm. We hope that before long, the Headmaster, to whom our thanks are due for arranging the concert, may be able to induce them to pay us a return visit. They will be assured of a hearty welcome.

Old Boys' Association

DURING the past winter the Old Boys' Association has been re-organised, and it is hoped that it will in future include a far larger number of old boys than it has attracted hitherto. It was felt that such an association should aim at something more than the mere provision of occasional meetings for those old boys who reside in Liverpool. It should also be a bond maintaining the connection between former school friends, whom fortune has sent to more distant parts of the earth. With this aim in view, the subscription has been reduced to a mere annual registration fee of 1s. per annum (or a composition fee of £1 1s. for life). In return for this, each member will receive in November of each year, the list of names and addresses of the members of the Association for the current school year. For the benefit of members resident in Liverpool, meetings of a social nature may be arranged, but such meetings must be financially self-supporting, and if members wish to receive the Magazine, an extra payment of 1s. must be made. Notices, however, of the social meetings, of the fixtures of the Literary and Debating Society, and any available news as to forthcoming School events, will be sent to all the registered members.

We trust that this scheme will be welcomed by many who may feel a wish to revive their connection with former friends, and with their old school. We hope, also, that they will assist to make the Association as widely inclusive as possible, both by registering their own names and addresses, and by bringing the scheme to the notice of other old boys of their acquaintance. Names to be included in next November's list, may be sent at once, with the registration fee (1s.) to the Hon. Treasurer, Mr. H. A. Lee, at 15, North John Street.

Old Boys' Notes.

THE Old Boys' Association held a very successful Bohemian Smoking Concert at Kirklands' Bold Street Cafe on February 26th. Thanks to Mr. W. Woodley Jarvis, we had a splendid musical programme. The programme itself was something quite out of the ordinary, being in the form of a musical menu, and was designed by Mr. W. A. Nathan. There were about one hundred and fifty old boys and ladies present.

On behalf of the Old Boys' Association, the Hon. Secretary wrote a congratulatory letter to the President, Sir J. C. Bigham,

on his appointment to the Divorce, Probate, and Admiralty Division, and received a letter in reply, thanking all the members for their good wishes.

Two new Vice-Presidents have been made this season—Sir Donald MacAlister, K.C.B., and Mr. J. A. Owen, B.Sc. Old boys will note with satisfaction these two additions to our list of vice-presidents.

Many important changes have been made in the rules of the Association, which have been duly notified to all old boys on the books. In future, the subscription will be an annual registration fee of 1s.; this will just cover the cost of printing and postages. It is intended to hold a dinner and other entertainments each season, which are to be, as far as possible, self-supporting.

The Old Boys' Literary Society held monthly meetings during the past season, which were fairly well attended. All members of the Association are members of this Society, and it is hoped that next season, more old boys will attend the meetings of this Society.

The Association is not as strong in numbers as it should be by a long way. It is hoped that old boys who are not yet members of the Association, will come forward and join, and all boys leaving the Schools are invited to do so, and should send their names to the Hon. Secretary of the Association, who will supply full particulars as to membership.

Lectures.

ON the 10th December, Professor Garstang, who needed no introduction to the School, gave us his usual annual lecture, dealing this time with "The Hittites." Last autumn he was engaged in excavations in Northern Syria, and his description of his journey through passes between mountains, snow-capped even in summer, was extremely interesting, and his ingenious method of avoiding brigands evoked much amusement. The entrances to the temples of the Hittites were almost always guarded by a carving of some animal, fabulous or real. By means of inscriptions, discovered on the temple walls, we gained an idea of the remarkable features of the Hittites, their dress, and musical instruments; the gods and goddesses they worshipped, their priests and kings, and their weapons. A noteworthy fact is that in Egypt there are carvings of the Hittites as known to the Egyptians, and they correspond in detail to those found in Syria. There was proof in a tablet, unearched last year, of the existence of an international language used in intercourse with Babylonia

and Egypt. Professor Garstang had come across last year part of a buried temple, and discovered that the entrance was flanked by a pair of lions, between which was an altar. Remains of crude pottery were also found. Everyone was sincerely sorry when the lecture closed, and Mr. Turner expressed the wishes of all in hoping that at some time in the future Professor Garstang would tell us of fresh discoveries.

On February 4th, the Headmaster lectured on "The Battle of Life." Beginning from an early period in the world's history, he described and showed on the screen some of the creatures which inhabited the earth at that time, whose names are almost as terrifying as their appearance, and which still existed when the first man came into being. All these beasts gradually developed into their modern prototypes. Some survived through their strength, others through their swiftness, some because they could swim, others by their power of flight. To man, however, belonged the ascendancy over them all. Man was not a creature of surpassing ability in any physical department. He was far inferior to many animals in strength and swiftness, and yet he was their master. It was his intellect which gave him this position. He learnt to make use of instruments; first, purely for his self-defence, then for his comfort and enjoyment. The history of the improvement of man's skill in the use of natural resources has been the history of the human race. Passing then to modern times, the Headmaster related some of the incidents in the present warfare of humanity—that against disease. He described some of the wonders of Bacteriology, and some of the results achieved for the cause of the alleviation of human suffering. Mr. Weisse then described the principle of inoculation; how we may ward off a disease by contracting it previously in a mild form, and how the effects of most diseases are slight owing to their prevalence through many generations of our ancestors. Finally he declared that a man who risked his life in hazardous experiments for the good of mankind was no less worthy of honour than one whose armies wrought destruction on the battlefield. We cordially thanked the Headmaster for his lecture.

On Thursday, February 28th, the Headmaster gave a lecture on "Colour Photography." He first explained that the primary colours, of which all other colours are composed, are scarlet, dark green, and blue. By means of the lantern we were shown how these colours, mixed in different proportions, produced all the other tints which we see around us. Mr. Weisse then entered into the subject proper. It was explained to us how, if photographs of one scene were taken successively through glasses of scarlet, dark green, and blue, and if these photographs were developed and then fitted exactly over each other, the result would show the scene depicted in all its natural colours. By means of a contrivance, invented and constructed by Mr. Ives, of Boston, such photographs were fitted

exactly over each other, and we saw on the screen views of Swiss scenery, of mountains, of English meadows, and of fruits, as though they had been painted by an artist. The pictures of fruits were especially good. We could see the shine of the apple, the fluffy appearance of the peach, and the rich colour of the grape. Good views of scenery are rather difficult to produce, for unless the trees and grasses remain absolutely still they will occupy slightly different places on the different plates, and so will not exactly cover each other. The lecture was most interesting and instructive, the beautiful slides giving it quite an artistic character.

"Wireless Telegraphy" was the subject on which Professor Marchant lectured to us on March 11th. At the outset we were told that Marconi was not the inventor of wireless telegraphy, as is commonly understood, although no doubt he is the cleverest man in this branch of science. As early as 1891, a German named Hertz discovered that if two coils of wire were placed near each other, and an electric current passed through one, another current would be generated in the other wire. This idea was not practicable, however, for the length of wire required to transmit a message to any distance would be too great. Later, however, it was found that when sparks passed between the two terminals of an electrical machine electric waves were caused. The professor then explained how these waves were caught, as it were, and how, by lengthening or shortening the duration of time during which the sparks passed between the terminals, the words could be made to register different signals, from which a code was formed, which is very easily deciphered. Further experiments were shown illustrating communication between liners at sea, and how a battleship could be blown up by this means, although this would necessitate the presence of a spy on board the doomed battleship, who would also have to be in communication with his own admiral. A very interesting portion of the lecture then followed. We were told how the sound of the human voice or any other noise could be reproduced by wireless telegraphy. To illustrate this, Professor Marchant's assistant retired to another part of the building, and soon we heard the well-known strains of "God Save the King" issuing from the arc. The hearty cheering at the close of the lecture clearly showed how we all had thoroughly enjoyed it.

Cadet Notes.

THE term which is now drawing to a close has been an eventful one in the annals of the Cadet Corps. The company has been re-organised, re-uniformed, and re-equipped, while the 125 cadets who are at present on the rolls constitute a record in point of numbers.

Under the old system, each cadet on his enrolment paid £1 for the cost of his uniform, which then became his own property. In addition he had to buy his kit, consisting of haversack, water bottle, &c., and also to undergo many other expenses in the course of his training, such as railway fares and payment for ammunition. This arrangement proved wasteful and unsatisfactory; consequently it was decided that if a sufficient number of boys were willing to join, a terminal subscription might be substituted for the initial outlay and the incidental expenses, while the uniform and equipment should remain the property of the corps, and be handed down from boy to boy. When the scheme was broached, Mr. Tomas generously volunteered to act as acting Quartermaster to the corps, and his services in putting everything straight have been invaluable.

The uniform has undergone a complete change. The old blue has disappeared, and the regulation kharki service dress has been adopted. Kharki greatcoats, supplying a long-felt want, have also been issued. The equipment, consisting of belt, frog and pouches, haversack, waterbottle, and greatcoat carrier, is of the latest service pattern. Captain Parkes has also been obliged to order a kharki outfit, while Captain Norman is fortunate in possessing one already. There has been as yet no parade in uniform, but before the end of term one or two uniform drills or exercises will be arranged.

Drilling has been proceeding steadily. As 75 per cent. of the company consisted of recruits, the officers and sergeants have necessarily been obliged to work hard to secure efficiency. Attendances at drills, however, has been good, and all are rapidly learning their duties. Towards the end of the term the recruits have had their preliminary shooting practice at the miniature range, an afternoon being devoted to each section. For those who have shown promise there will be shooting at Altcar during the course of next term. A class has been held regularly for candidates for promotion under Colonel Leslie, V.D., 1st C.B. King's, who very kindly offered his services. The bugle band is stronger than ever, and is still under the command of Sergeant Baron. Bandmaster Smith, 9th Battalion King's, has again been engaged as instructor, and practices are also held three times a week under Sergeant Baron. As the result of such enthusiasm the band is now attaining a fair degree of proficiency.

During the first week of next term it will be possible for a few boys, who wish to join the corps, and are not less than 5 feet in height, to give in their names to the officers. No recruits can be accepted afterwards, as it would be impossible for them to obtain the requisite efficiency before camp.

Football.

IN the history of the School Football during the season which has just closed, there is little which can make very exciting reading. Its main feature has been that it has marked the opening of the School Ground, which is easy to reach from the centre of the town, and is large enough to afford accommodation for two or three games at a time. As this winter the grass was somewhat thin, only First and Second Eleven games have been played on it; but in future years it is hoped that other games may take place there as well. Pending the erection of a pavilion, the Elevens have used the Rifle Range for dressing purposes, and the School's thanks are due to the officers of the Cadet Corps, who kindly placed it at the Football Club's disposal. A man has been engaged to look after the ground, and the first cricket match is being eagerly awaited.

Sad to relate, the First Eleven has not celebrated the opening of the ground by recapturing the "Shield." We were beaten in the Second Round by Birkenhead Institute, after an exciting, if not a very scientific game. In other matches, however, we have witnessed some very creditable performances. A capital game resulted from their meeting with the Old Boys, who brought a strong team, and were lucky to win by scoring twice in the last five minutes. The feature of this game, as it was that of the match against Birkenhead, was the splendid goal-keeping of Kingan, who prevented in each case a much heavier score. The School forwards were most successful against Bootle Secondary School at home, when they scored nine goals, and in the following week, when the same ground was inches deep in mud and water, six were recorded against Calday Grange. The following compose the First Eleven:—Kingan, goal; Kininmonth and Bigham, backs; Thomas, Barber, and Sim, half-backs; MacKenzie, Pearse, Clarke, Gordon, and Boyle, forwards.

LIVERPOOL INSTITUTE v. BOOTLE INTERMEDIATE DAY SCHOOL.

This match was played at Greenbank on January 27th. The Institute were represented as follows:—Kingan, goal; Bigham and Roberts, F. J., backs; Thomas, Burchill and Barber, half-backs; MacKenzie, Pearse, Clarke, Price and Boyle, forwards. Thomas won the toss, and in the opening stages of the game Bootle pressed. A foul against Clarke relieved the pressure, and Pearse was prominent in an attack upon the Bootle goal. Then, from a centre by Boyle, Clarke opened our account, and a few minutes later, he nearly repeated his performance. Keeping up the pressure, we gained a corner, and then Pearse narrowly missed scoring from a long shot. Play then became somewhat slow, but

shortly before half-time, Price scored from a centre by MacKenzie. Half-time: Institute 2, Bootle 0.

The second half is merely an account of the goals scored. From a penalty shot, Roberts added a third. Bootle then began to press, but Pearse increased our lead, and was shortly afterwards followed by Clarke, who scored our fifth goal. The Bootle left back was then compelled to retire from the field, and we then had the game entirely in our own hands. Boyle and Price both scored a goal each, and Pearse secured two more, so that at full time the score was 9-0 in our favour. Pearse was by far the most prominent player on our side, and apart from the fact that he scored three goals, put in a lot of good work. We won comfortably, for at no time in the game was our defence seriously troubled.

LIVERPOOL INSTITUTE v. OULTON SECONDARY SCHOOL.

This match was played at Greenbank Lane on February 3rd. The Institute were represented by the following team:—Kingan, goal; Kininmonth and Bigham, backs; Thomas, Burchill and Sim, half-backs; Mackenzie, Tavernor, Clarke, Price and Boyle, forwards. Thomas lost the toss, and Clarke kicked off against a strong wind. The Institute immediately took the ball into their opponents' half. Boyle, obtaining possession, centred, but the ball came back with the wind; good passing could not be expected. After about fifteen minutes' play, Tavernor managed to score our first goal from a centre from Boyle, who was playing a fast game. All the play was in their half, with the exception of an occasional rush or two. Our right wing was weak, and owing to the heaviness of the ball, and the strength of the wind, MacKenzie's centres were by no means good. Boyle, from a *melec* in front of their goal, scored a second point. Not long afterwards the whistle blew for half-time, with the score 2-0 in our favour.

Restarting, the Institute had all their own way, Clarke scoring with a good shot. Tavernor soon followed with another. Oulton then broke away, beating both our backs, and Kingan, a few yards in front of his goal, made an excellent save. Clarke soon scored another, and might have scored many more, if the inside men had occasionally fed him, and not always their outside men. Oulton gave our defence an anxious time before they scored their only goal. Kingan having no chance to save from a ground shot. Clarke added our sixth goal. The whistle then blew for full time, leaving us winners by 6 goals to 1.

Their custodian played an excellent game, and but for him, their defeat would have been much more severe.

LIVERPOOL INSTITUTE v. CALDAY GRAMMAR SCHOOL.

This match was played at Greenbank Lane on Wednesday, February 10th, in wet weather. The Institute lined up as follows:—Kingan, goal; Roberts and Bigham, backs; Thomas, Machray and Sim, half-backs; MacKenzie, Pearse, Clarke, Gordon, and Boyle, forwards. Thomas won the toss, and Calday kicked off against a slight wind. From the commencement of the game it could easily be seen that the Institute were the better team. After about twenty minutes play, Machray scored with a good shot. Good shooting could not be expected, as the ground was partly under water, and the drizzling rain, which lasted throughout the game, did not improve matters. Not many minutes after the first goal, Boyle registered another, half-time arriving with the score 2-0 in our favour.

After the interval, the Institute pressed, and a good shot from Gordon added a third. Clark soon added two more, and Gordon scored from a corner kick on the left. Final score, Institute 6, Calday 0.

LIVERPOOL INSTITUTE v. OLD BOYS.

This match was played at Greenbank Lane on February 17th, and an interesting game resulted. The Old Boys' team consisted of past Shield players together with three masters. The following were the teams. Institute:—Kingan, goal; Kininmonth and Bigham, backs; Thomas, Barber and Sim, half-backs; MacKenzie, Gordon, Clarke, Price and Boyle, forwards. Old Boys:—Muir, goal; Mr. Wheeler and Mr. Kennard, backs; Mr. Parkes, Roberts, F. J., and Dalzell, half-backs; Milliken, Lunt, Wright, A. F., MacKenzie, K., and Bell, J., forwards. The visitors were individually much the stronger team, but their lack of previous practice together, enabled the School to avoid defeat until the last five minutes. Throughout the first half, the play was mostly in our half of the ground, though the strong defence of our backs prevented the pressure from becoming serious. One or two shots hit the bar or posts, but at half-time, there was little to pick between the teams. During the second half, with the wind in our favour, we did slightly better. Our forwards, however, never succeeded in making their attack really dangerous. Within the last few minutes, Milliken succeeded in scoring for the visitors, and a minute later Lunt added another point, so that time was called with the score at two goals to nil, in favour of the Old Boys.

SHIELD COMPETITION.—SECOND ROUND.

In the first round of the Competition, we had a bye, so that we met Birkenhead Institute, at Prenton, in our first, and, as it turned out, our only, Shield match. It had to be postponed a week owing to the snow, but Wednesday, March 10th, found us at Prenton, with the following team—Kingan, goal; Kininmonth and Bigham, backs; Thomas, Burchill, and Sim, half-backs; MacKenzie, Pearse, Clarke, Gordon and Boyle, forwards. We lost the toss, and from the start, Birkenhead showed their superiority. Owing to the recent snow, the ground was extremely muddy, and this may account for, though not excuse, the way in which our team were literally swept off their feet. Birkenhead maintained the pressure throughout the whole of the first half, and were extremely unlucky with some of their shots, three of which hit the posts. They were not to be denied, however, but scored twice in rapid succession, though there exists grave doubt as to the validity of the second goal, which many held to be clearly offside. Then followed a series of corners, one being the result of a magnificent save by Kingan. There was no further scoring before half-time, when the game was two goals to nil in Birkenhead's favour.

With the slope in our favour we did rather better in the second half. We began to press, and Pearse was at fault through missing a good chance of diminishing the lead. Following upon a fruitless corner against Birkenhead, Thomas was prominent in the defence, by saving what would have been otherwise a certain goal for them. After Clarke had missed a good opportunity, we were treated to a display of goal-keeping such as has seldom been seen in a Shield match. Kingan brought off three brilliant saves in succession, thereby saving us from a crushing defeat. MacKenzie spoilt a good piece of work by finishing with a weak shot. Then the Birkenhead custodian was forced to concede a corner, and from this, Sim raised our hope of victory by scoring. We kept up the pressure, and were, for the remainder of the game at least, equal in merit to our opponents. Pearse had hard luck with one shot, which went over the bar, and then Kingan again saved, this time taking the ball from the forward's very feet. Next, from a pass from Boyle, Gordon managed to get away, and scored, but was ruled offside by the referee. No more scoring ensued, so that we retired beaten by two goals to one. There is little doubt, that on the day's play, Birkenhead were the stronger team, though the state of the ground may have affected the result. All the more praise, however, is reflected upon Kingan, whose display greatly compensated for the general weakness of the remainder of the team. The backs were unreliable, as were also the halves, though Sim, in the second half especially, played a very good game: but the forwards seemed lost, and were plainly over-weighted.

SECOND ELEVEN.

There have been only three second eleven matches this term, other fixtures having had to be postponed owing to the snow, and our single Shield match. Of these three matches, one was won, and two drawn. The following comprised the Second Eleven:— McWilliam, goal: Clark and Shacklady, backs; Foster, Burchill and Henderson, half-backs: Tavernor, Burnett, Middleton, Price, and Rennie, forwards.

The first match was played against Oakes Institute, at Greenbank Lane, on January 23rd. We were well represented, and on the day's play, should have won by a larger margin than we did. The visitors' only goal was scored in the second half, from a penalty awarded against Coope, and they were undoubtedly saved from a heavier defeat by their goalkeeper, who played an excellent game. The final score was two goals to one in our favour.

On February 6th, we played St. Edmund's College, at Greenbank Lane. We did not have a very strong team out, and our visitors also were short, Young playing for them as substitute. The score at half-time was two goals to nil against us, as Young scored for them, and our left back put the ball through his own goal. In the second half we did better, Tavernor and Gordon both scoring for us, so that at full time the score stood at 2—2. We were unlucky in not being able to win, for we maintained a steady pressure throughout the whole of the second half.

The final match of the season was played on March 6th, against Liscard High School, at Liscard. In the first half, with wind and slope against us, we more than held our own, and, with the score at 1-1, were fully confident of victory in the second half. However, although we remained in their half almost all the time, we could not increase our score. We had hard luck with some of our shots, but on the whole, our shooting was extremely poor. The final score therefore, was 1-1.

The Chess Club.

OUR first year of existence has been very successful. We have played five matches, winning four and drawing one, while one match still remains to be played (on April 1st) against the Old Boys. Let us hope that we will end the season undefeated. Last term we finished up with a match against the masters. This proved to be rather exciting, but we managed to snatch a victory by one point. Owing to the absence of one master, Mr. Hicks played two boards. The following were the results:—

MASTERS.		SCHOOL.	
Mr. Hicks	0	Price, N.	2
Mr. Faves	1	Ritson, E.	0
Mr. Doughty	0	Ward, R.	2
Mr. Hicks	2	Davies, L. R.	0
Mr. Hickinbotham	2	Abrahams, M.	0
Mr. Parkes	0	Bochinsky, H.	2
Mr. Parsons	2	Ingham	0
Mr. Hardman	0	White	2
Total	7	Total	8

On February 8th the Collegiate School returned our visit of last term. After tea we adjourned to the Masters' Room, and played the games there. We were not quite as successful as in our first match, when we won every game, for this time we lost one point. Result:—

INSTITUTE.		COLLEGIATE SCHOOL.	
Price, N.	2	Barlow	0
Ritson, E.	2	Watkinson, A.	0
Ward, R.	2	Pool	0
Davies, L. R.	1	Stuart	1
Jameson, P.	2	Watkinson	0
Total	9	Total	1

We expected to suffer a very serious repulse when we met the Old Boys, for when we last knew them they could each play two boards at the same time and beat us then. However, considering the fact that two of our best players were away, we came through the ordeal very meritoriously, for we effected a draw. As our opponents only turned up with six men instead of eight, Abrahams, one of our own team, played as a representative of the Old Boys. Result:—

INSTITUTE.		OLD BOYS.	
Price, N.	0	Blevin	2
Ritson, E.	1	Williams, B.	1
Ward, R.	1	Sibbitt	1
Davies, L.	1	Whittington, R.	1
Sleggs	2	Alexander	0
White	2	Turner, A.	0
Machray, D.	0	Abrahams	2
Total	6½	Total	6½

On March 16th the Upper Sixth opposed the rest of the School. As might be expected, the latter, with much larger resources, gained the victory. Result:—

UPPER SIXTH.		REST OF SCHOOL.	
Ward, R.	1	Price, N.	0
Ritson, E.	0	Sleggs 1	
Davies, L.	0	Jameson 1	
Bochinsky, H. I.	0	Abrahams 1	
Callow, R.	1	White 0	
Williams, J.	0	Ingham 1	
Bolton, C. R.	1	Laidlaw 0	
Total	3	Total	4

Next term the club, as an official organisation, will be suspended till the Winter Term, but the Chess Room will still remain open for occasional games. There will be no matches next term.

Camera and Field Club.

CONTINUING the Winter Programme of last term, the Club has made two more very interesting excursions.

On Wednesday, February 17th, the Club visited the British Insulated and Helsby Cable Co.'s works at Prescott. Entering the works by the handsome vestibule, we were immediately divided into small groups, each led by a guide. We first viewed the steel-floored room, where pigs of copper were rolled into comparatively thin wires. In the second room we were shown how wires could be joined together by means of electricity. Next, we visited several rooms, where wires of various thicknesses were rolled, and finally came to the Insulating Room. This room was, perhaps, the most interesting of all. We saw how thin wires were covered with cotton and silk, and then, how big cables were insulated with a thin lead coating and tarred cloth.

On Wednesday, March 3rd, we were fortunate enough to obtain permission to go over the Wavertree Gas Works. Accordingly, a rather large party set out for Wavertree, and after walking almost completely round the works succeeded in finding the entrance. We were conducted by the superintendent in person, who explained the various operations to us very carefully. We first went to the retort room. Several retorts were in use, and the others were being relieved of the gas carbon which collects on their sides. In this room was a machine which was capable of putting a new charge

of coal into the retort, and at the same time pushed the old charge out. A retort was emptied whilst we were in the room. The door was opened, we were told to stand back, the great engine was started, and an enormous mass of red hot coke came rushing from the retort. This coke was immediately quenched with water, and taken to the storeroom. Passing through the retort room into the open air, we saw the machine for crushing the coal into pieces of a convenient size, and then the power station from which all the plant on the works is driven. Then we were shown the method of washing the gas before it is driven into the gasometers. Finally, we saw the great gasometers, and the instruments for measuring the volume of gas each contained. Then after bidding good-bye to our guide we came away, feeling that we had not only spent a very interesting afternoon, but that we had learnt something.

Our Winter Programme is now practically concluded. Outdoor excursions will be begun at the beginning of next term, and we hope for a successful season. R.H.T.

Editorial Notices.

We beg to acknowledge the receipt of the following contemporaries:—*Birkenian*, *College Echoes* (2), *Collegian*, *Esmeduna*, *Fettesian* (2), *Kelly College Chronicle*, *Olavian*, *Plymothian*, *Portcullis*, *Savilian* (2), *Sphinx* (4), *Wallaseyan*, and *Yellow Dragon*.