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HARLEQUIN

THE MAGAZINE OF THE ATOMIC ENERGY RESEARCH ESTABLISHMENT

VOL. 4 NO. 1.

1953

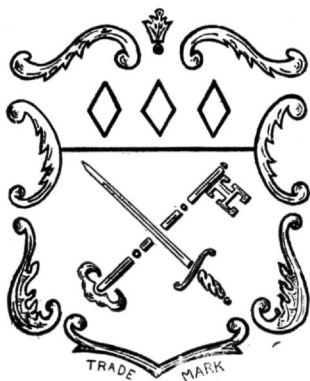


THE WHITE BRIDGE, EAST HENDRED

K. Gingell

FOREWORD

On into the new Elizabethan Age



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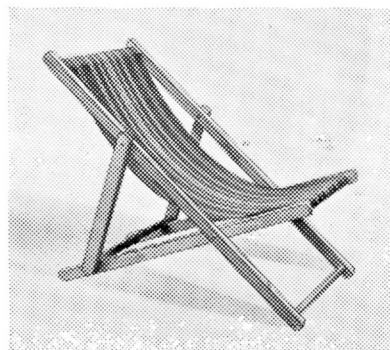
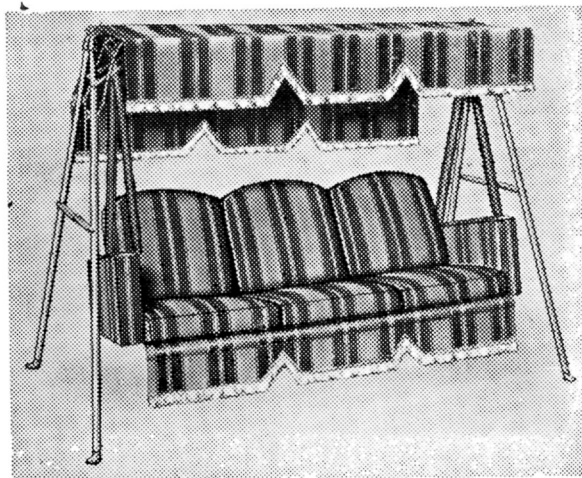
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THE AIMS OF THIS MAGAZINE

- (1) To publish a Magazine of interest to all concerned with the Atomic Energy Research Establishment at Harwell.
- (2) To provide a reliable guide of Business Houses from which Harwell staff can receive satisfaction.
- (3) To join with others in the promotion of Recreational, Cultural and Sporting Activities at Harwell.

• • •

As formulated at a meeting of the Editorial Board in the Social Club 8 p.m. Thursday, 21st May, 1953.

Dependent upon the receipt of worth while contributions, this magazine will be published at more frequent intervals in the future. Manuscripts should, where possible, be typed with double spacing and two copies enclosed. Contributions of all types will be welcomed and will be acknowledged upon receipt, pending acceptance for publication.

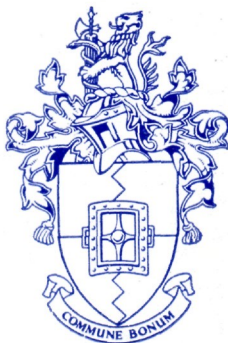
Although all business houses mentioned here have full endorsement, the views of contributors are not necessarily those of the Board.

Contributions and competition entries should be sent as soon as completed. Actual closing date will be published in "A.E.R.E. News."

The Editor, Harlequin Magazine, A.E.R.E., Harwell Berks.



ESTABLISHED 1898



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LONG MAY SHE REIGN

Editorial

This, for the Queen, for Britain and for the Commonwealth, is a year whose special and memorable qualities require no emphasis. May it be for the Queen, now that the stress of the Coronation has passed, a particularly happy year of winning through from dark and dangerous years to a steady and strengthening hope in the future.

These are not formal wishes for the editorial of this magazine. They come from the hearts of all who are concerned with the atomic energy project at Harwell. Our new Queen is young and youth begets boldness and courage. Is it too much to hope that she will infuse in us and into the leaders of the country a new spirit of advancement in all our peaceful spheres?

This Coronation Year has seen the rallying of our great Commonwealth. Is it too much to hope also that this spirit of mutual co-operation, —more wonderful, we readily accede, than the greatest achievement of science—may in the future carry us forward into a new age of advancement? For Britain this is not an age in which to win glory on the battlefield or to embark on new imperialistic expansion: rather is it in the realm of science, medicine, industry and in the welfare of the people both at home and in the colonies that the 20th Century Drakes and Raleighs must advance.

It was Francis Bacon in the age of the first Elizabeth who opened the door to modern science; Dalton, the chemist, Charles Darwin, Pasteur and many others made the age of Victoria an outstanding era of scientific progress. In our own time what is perhaps the greatest scientific discovery of all, the revelation of the

structure of matter itself, the analysis of the atom into its particles, may surely be the precursor of many new applied sciences? May not the unlimited sources of mechanical power bring about in the fullness of time a second Industrial Revolution? Through the application of isotopes in agriculture and medicine much also may be done to improve the conditions of life of the ever-increasing population of the world.

Yet ought we not to be careful of too-easy talk about a New Elizabethan Age? Co-operation and not science is the law of progress and much must depend on the maintaining of peace.

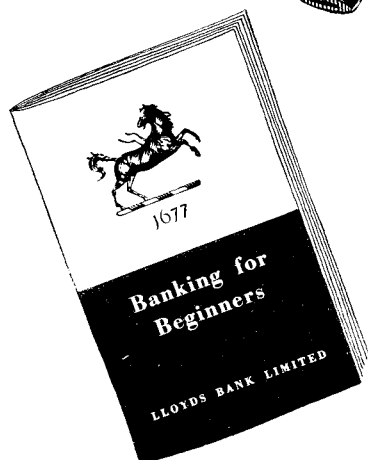
Looking at the part which this country must play, there is the much-quoted belief that England prospers best when a woman ascends the throne. But it will require more than popular superstition to bring forward a New Elizabethan Age greater or even as great as the first.

It is true that we have on the throne a personality to suit our Age; a young Queen trained in the stern, industrious school of her family's tradition, who, as devoted wife and mother, symbolizes the loyalty, steadiness and endurance which all of us should show.

But the New Elizabethan Age depends upon us as part of the nameless millions for whose comradeship she appealed upon her 21st birthday: "I shall not have strength to carry out this resolution alone, unless you join in it with me, as I now invite you to do..."

On behalf of all concerned with the atomic energy project at Harwell, we pledge our support and wish a Long, Glorious and Happy reign to Her Majesty, Queen Elizabeth the Second.

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THIRTEEN YEARS of

ATOMIC ENERGY

Sir John Cockcroft, K.C.B., C.B.E., F.R.S.

In this article exclusive to Harlequin, the Director looks back to the unrecorded pre-natal period of the Atomic Age. He leads us forward through the growing stage to Harwell's adolescence. "As we now approach maturity," he writes. "It is natural to ask what we have so far accomplished."

The development of Atomic Energy may be divided broadly into the pre-historic period, the years of the war development when even the existence of the project was shrouded in the cloak of TOP SECRET, followed by the historic period which started broadly with the end of the war and the founding of Harwell.

In looking back into the pre-historic period, a few important events remain vividly in my mind. The first was the arrival in London of a French Officer, M. Allier, bringing news of German work in Atomic Energy and telling us of his mission to collect from Norway, whilst there was still time, their 180 litres of heavy water which was then almost the whole world stock. The next event was the arrival of Drs. Halban and Kowarski at Paddington Station escorted by the picturesque Earl of Suffolk, slung about with guns, who had brought out a shipload of refugees, diamonds and the heavy water from Bordeaux after the fall of France. This period was followed by the collecting together at Cambridge of the nucleus of the heavy water pile project. We can still see some of the nucleons about in Bauer, Fenning and Seligman.

The Cambridge period was a period of uncertainty: uncertainty as to whether a heavy water pile would or would not diverge, but the optimistic view prevailed and the nucleus moved off in January 1943 to establish itself in Montreal in the icy cold of the Canadian winter as partners of the Canadian scientists. I had nothing to do with the project during this early Canadian period but made contact with it again in December 1943 when I was on a radar mission to the United States.

There I met Professors Chadwick and Oliphant who were over on another mission—to repair the broken alliance with the United States in Atomic Energy. I was urged to return to the nuclear fold and in March 1944 I received what was

almost a command to join the Canadian project and I have memories of flying off from Prestwick in a U.S. Air Force DC4, landing at Stephenville in Newfoundland and finally being met at Montreal on a rainy night by the Head of Theoretical Physics, Dr. Placzek. Dr. Halban and his colleagues were by now settled in the skyscraper building of the University of Montreal.

Amongst the notable characters were Professor Auger, now Head of the Natural Sciences Division of UNESCO, Drs. Goldschmidt and Gueron who, with Dr. Kowarski, are now leading members of the French Atomic Energy project, Dr. G. C. Laurence, Dr. Sargeant and Dr. Volkoff, three senior Canadian scientists and an important engineering nucleus (Anderson, Ginns and Newall) from I.C.I., with Flowers and West as other nucleons. The University of Montreal became for a time a University of Atomic Energy with well attended 9 o'clock lectures when the well known Volkoff Lectures were given. Amongst the new students from England were Professors Pryce and Guggenheim, Dr. Dunworth, Dr. Spence and Mr. Tongue.

After this, memory fastens on the founding of the Deep River village and Chalk River plant in the valley of the Ottawa River at a place where the early exploring "voyageurs" used to halt. The first prefabs or war-time houses housed Fenning and Watson-Munro as pioneers, whilst plant construction went ahead steadily in the depths of the 1945-6 winter. Deep River village was laid out with the help of the Professor of Town Planning at McGill University and has from the first been a delightful place to live, always revisited with pleasure.

Up till this time the British project had been known by its code name of Tube Alloys. There was a small and very efficient headquarters in Old Queen Street of whom Sir Wallace Akers



Sir John Cockcroft

and M. W. Perrin, Awbery, Blok, A. Longair, and D. R. Willson were leading members.

The closing months of 1945 saw the genesis of Harwell. We looked for an existing Government-developed site, not too far from a University city and not too far from London. After a rapid inspection of airfields, the Government allocated Harwell to us. Next in mind is a cold blustering day in February 1946 when Dr. Skinner, John Fisher and I surveyed our future home with the rain slanting across in the well known Harwell winter fashion. There was now a home party, led by Dr. Skinner, planning the conversion of the existing buildings with the construction of the cyclotron and Van de Graaf machine; the Canadian group planned at a distance the radiochemistry lab., 220 and the B.E.P.O.

The New Zealand group under Watson-Munro moved over to push on with the design and construction of the G.L.E.E.P. At

the same time, the post-war fission of T.R.E. yielded important products of fission to Harwell. R. Cockburn, D. W. Fry and D. Taylor and their colleagues brought to us the great electronic skill of the Radar Establishment. With them came A. B. Jones who had piloted the administration of T.R.E. through the difficult war years, R. M. Fishenden who had served the Director there, and H. Norwood, who had served with me as head of the R.R.D.E. workshops, came to found our workshops here. We also received gratefully the remains of the war time Los Alamos and Berkeley groups, including Dr. W. D. Allen, Dr. Bretscher, Dr. Marley and Dr. Titterton. From all these ingredients A.E.R.E. was formed, the primeval nucleons being leavened by new recruits from Universities and Industry.

At the same time our housing estates and recreational amenities were established. The Aldfield and Chilton prefabricated communities were formed whilst most of the early staff was still in Canada. They have been essential to the building up of the Establishment and are likely to remain with us. We have been criticised for their patchwork appearance as seen from the Downs, but have always been looking forward to the time when a repainting will allow us to blend them into the landscape.

Fitzharrises Estate and the Wantage Estate came to us by purchase to provide for larger houses. We have done our best, with the Ministry of Works, to develop them into attractive estates, particularly by preserving all the trees we could and arranging for communal front lawns on the Canadian pattern, and we have, I think, been successful. The Wantage Estate with its wide views and varying levels is particularly attractive.

The Recreational Association, with its numerous clubs and societies, owes a great deal to its first Chairman, John Fisher, who was also responsible for much of the internal planning of the new houses. The memory of Fisher and Dickinson wearing top hats during our early Sports Days will always remain.

I must remember also with gratitude, the notables of the Ministry of Works. Sir Charles Mole, who has spent many a Saturday morning with us, Mr. Davies, a notable Welsh Superintendent, their chief architects Polson and Curry and their chief engineers, Wilson and Harbert.

I think I could almost compose a Commemoration Address. 'These were our founders and principal benefactors.' We could also found an Old Harwellian Society of members who have gone out to Universities and Industry here and in other parts of the Commonwealth. Certain it is that in travelling about the world one can nowadays be sure of a welcome from an ex-member in most large centres. My wife and I had a memorable and delightful Old Harwellian tea party in Wellington, New Zealand last Summer.

After all this growing period we have passed through our adolescence and are coming into maturity. It is natural to ask what we have so far accomplished.

To our sister establishments we have provided the information and the pilot plant experience which has enabled them to establish the production of plutonium which led to Montebello. The British Commonwealth is no longer without knowledge and experience of the most important military weapon of to-day.

A good start has also been made in the development of nuclear power and from now on most of our energies will be devoted to this task. Together with our Risley colleagues we are already working on three projects and from the wealth of other possibilities other projects are beginning to form in the crystallising influence of discussion. We can certainly prophesy that there is ample work ahead for all



A.E.R.E. Building 329 at Harwell

We can, I think, fairly claim to have contributed greatly to science and particularly biological science by our work on isotopes and by providing the instruments and knowledge required for their use. We have also helped the Universities in the building up of post-war facilities for nuclear research, and have ourselves made original contributions in nuclear physics, electronics, chemistry and metallurgy.

to enable our country to take the lead in nuclear power in the same way that it has taken the lead in jet aircraft.

Apart from our work, I hope, and expect, that the Harwell community will continue to develop as it has begun, contributing vitally to the life of the countryside.

J.D.C.



CORONATION YEAR

in

CANADA

A Letter from Deep River

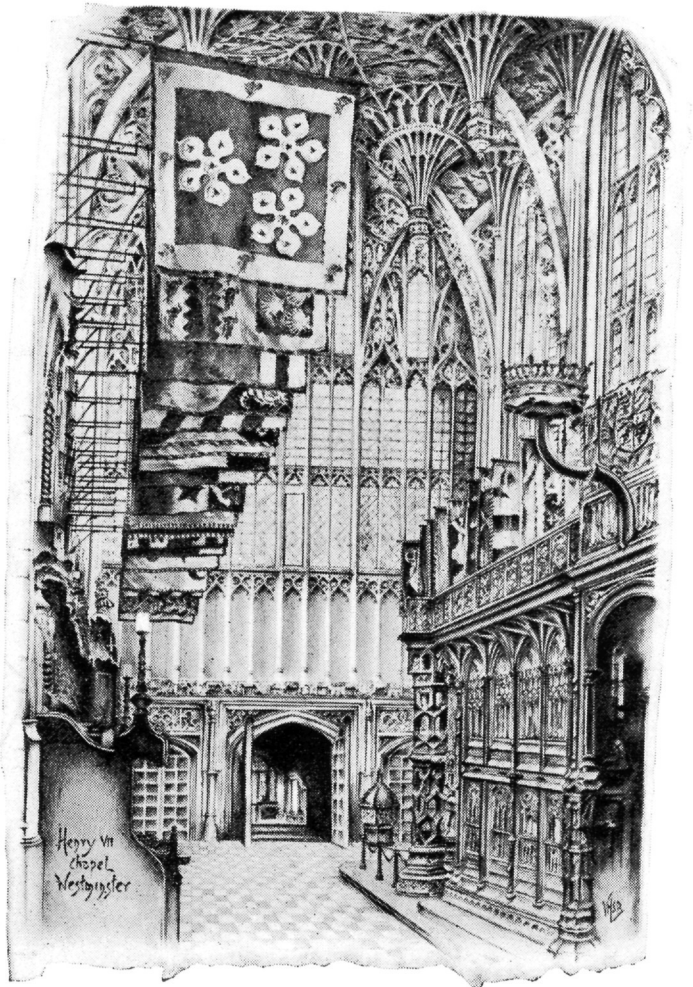


KIM FRENZ

Our Canadian Correspondent

The many sounds of preparation—which swelled to a crescendo in Britain—were heard even in this remote spot. The Coronation became one of Deep River's topics of conversation. In the Post Office, in the A & P,* even in the drowsy conversations of the morning bus ride to the plant, one hears some mention of the Coronation. There are Coronation candy bars in the drug store and Coronation picture

* The Atlantic and Pacific (Grocers). 'Canadaism' in this letter are unedited.—(Ed.)



V. M. Burroughs (A.E.R.E.)

books on the news-stand. One can still buy Coronation biscuits in the "A & P".* A well-known Canadian brewer brought out an extra-strong Coronation ale. The bottles are somewhat garishly wrapped with gold tinsel paper gathered about the neck with a red plastic band, but the liquor they contain is palatable and potent.

Deep River was represented at the festivities by at least one family that I know. The plans of these fortunates were a subject for excited discussion in the town. Many of us celebrated the event by a more modest pilgrimage to a television set in Toronto or Montreal. Most of us listened to our own imperfect reception of accounts by the BBC or the CBC.

Television has not yet reached Deep River. I have heard of an ingenious plan to beam television to the townsites from a relay station at the top of the plant's water-tower. I suspect that the idea originated in the Deep River Radio Club, and I am confident that there is the requisite technical skill in that august body to carry out the scheme. I am not so confident that television would justify the effort. It has been said that Canada, after a late start, is now in rather too much of a hurry to get on the air. Tardiness, it appears, has been the result of hesitation rather than deliberation, and our pictures are inferior to those of older transmitting systems. Our technicians and performers appear to have been inadequately introduced to the new medium. There are some hopeful signs, however. In Montreal, as elsewhere, television programs appeal chiefly to the young. Since the majority of programs are in French, there is a possibility that English-speaking children will at last find an incentive to learn French.

1953 is an election year in Canada, and the parties of the Opposition are working almost as one man to find chinks in the massive Liberal armor. A chink was exposed recently in the form of wasteful spending in the department of Mr. Claxton, the Minister of Defense, and every effort has been made to drive in a wedge. A formal investigation has been made into the financial arrangements of the Petawawa military camp near here, where it was reported that certain horses were on the pay list. This became for a time almost a national joke, and the unfortunate residents of Petawawa village must be ready to pass laws abolishing these animals for ever from the community.

Another token of coming elections, the reduction in personal income tax, was received in Deep River without a murmur. It even came as an anticlimax, for Mr. Abbott, who announced the reduction, has become increasingly sheepish about the enormous budget surpluses

BY AIR MAIL PAR AVION

in recent years. The tax on tobacco has been reduced, and radio licenses have been abolished. This last benefit will also have fallen rather flat in Deep River, I fear, where it is something of a disgrace not to have built one's own receiver, or at least to have remodelled an old aircraft set. I do not know if any formal attempt has ever been made to investigate the unlicensed receiving sets of this village; but the inspector, if he ever came, must have gone away a confused and disheartened man, having come more than once into contact with inadequately insulated H.T.

The Canadian dollar is still, to everyone's mild surprise, at a premium. There are some of us who are rude enough—I am sorry to say—to make a great fuss over finding American silver in our change (and come to think of it, there is an extraordinary amount of American silver about!). A Briton of my acquaintance in commenting on the situation uttered the word "inflation" with a solemnity which could only have come from the deepest convictions. He was right, of course, and I am sure that everyone here recognizes that we are living in an inflationary period. We expect that it will be followed by deflation as well; but we expect—not groundlessly, let us hope—that both processes will be regulated so far as this is possible by a government which is aware of the situation. We have Britain to thank for our belief in good government.

It may be well to close on this note. Canadians, who are so fortunately placed in the New World, are equally fortunate in their inheritance from the Old. I believe most Canadians realize this, and I think it can be said that nowhere, except in Britain itself, has the Coronation been celebrated with more genuine feeling than here in Canada.

KIM KRENZ.

HARWELL

Leisure Activities

include the following

ART SOCIETY

The Society exists for the practice of the graphic arts, and for the assistance and encouragement of its members.

From October to April the Society meets each Monday at 7 p.m. in the Social Club.

Instruction will be given by one of our members if desired.

It is hoped to secure outside lecturers from time to time.



CHORAL SOCIETY

The choir, which has a membership of about 40, rehearses once a week on Sundays at 8.0 p.m. in the Social Club. It aims at giving at least one concert a year, on the site or in the Churches of neighbouring villages. At Christmas time it goes carol-singing round the site.

Its season begins in early September and continues until about the end of May. Works performed in the past include a Bach motet "Jesu Priceless Treasure," Masses by Dvorak and Fauré, Haydn's "Creation" and a number of madrigals and part-songs. Major works are given with orchestral accompaniment.

You do not need to be an expert reader of music in order to join: the aim is to help people to enjoy choral singing.

THE CHRISTIAN FELLOWSHIP

The Fellowship exists to stimulate personal faith in the Lord Jesus Christ and to unite those who desire to serve Him.

Announcements of meetings etc. appear in the A.E.R.E. News.



"Plough on the Downs"

Miss Seaton O'Connell

Support is given to the interdenominational services held each Wednesday lunch time from 12.55-1.5 in the Chapel of the Social Club.

RIFLE CLUB

The object of the club is to promote shooting as a sport and to encourage competitive shooting, both individual and team.

Any member of the Recreational Association may join the club. Ladies and newcomers to the sport will be particularly welcome, and tuition will be provided.

The Club possesses a number of rifles and will first concentrate on .22 rifle shooting at 25 yards on an indoor range.

The Club partakes in .22 Rifle Interdepartmental matches and teams are entered in the M.O.S. and Berkshire County Leagues at 25 yards, and later will be entered in National League Matches outdoors at 50 and 100 yards.

It is hoped to start .303 rifle and pistol sections in the near future.

WOMEN'S CLUB

The Women's Club hold meetings every four weeks with the object of providing a social meeting ground for all women residents of A.E.R.E. sites and also programmes of wide interests, on such subjects as art, crafts, music, beauty culture, travel, etc.

TOWNSWOMEN'S GUILD

The object of the guild, the further education for townswomen, enabling them to become better citizens, is well known.

The A.E.R.E. Guild has been formed for the benefit of townswomen exiled to a life in the country.

Meetings are in the Social Club, on the second Thursday each month at 7.30 p.m.

BRIDGE CLUB

The Bridge Club meets every Wednesday (except during the summer) at 7.30 p.m. in the Card Room of the Social Club. Rubber Bridge is played at stakes of 1d. or 3d. per 100 and all are welcome. Duplicate competitions are arranged monthly, there is a knock-out pairs competition and an inter-site league competition, and matches are arranged.

CALEDONIAN SOCIETY AND REEL CLUB

Membership of the Caledonian Society is open to all who can claim their connection with Scotland by birth, parentage or marriage, but anyone who is interested in Scottish Country Dancing and not qualified for full membership can apply for membership of the Reel Club.

Scottish Country Dances are held on alternate Saturdays in the Social Club and special functions (St. Andrew's Ball, Burns' Supper, etc.) are held during the season.

DARTS

Another of the amenities of the Social Club, the Darts Club operates during the winter months.

On Sports Day the club runs a competition which attracts entries from surrounding villages for many miles.

SCOUTS

There is a full Scout Group consisting of Rovers, Scouts and Cubs. Their headquarters are in building 184 North Drive.

The group holds weekend and annual camps.

Rovers meet on Monday at 7.15 p.m. Scouts Tuesday at 7 p.m. and Cubs on Friday at 6.30 p.m.

BILLIARDS AND SNOOKER CLUB

The club was formed in 1952 as one of the activities of the Social Club.

Teams are entered in the Didcot Billiard and Snooker League, and in their first season the club won the Ben Bosley Cup for Snooker.

Local and inter-departmental friendly games are also played.

CAMERA CLUB

The main object of the Camera Club is to provide enthusiastic amateur photographers with the means of enjoying their hobby and of improving in it. To this end the club possesses an extremely well equipped Dark Room. The Winter programme generally includes a lecture or show occurring once a month from October to April. The Club also endeavours to cover some of the other activities occurring on the site by taking photographs of them and holds its annual exhibition on Sports Day.

CHESS CLUB

The Club, formed in 1947, has as its object the practice and encouragement of chess.

Each year teams of 6 players are entered in the Oxford and District Chess league, Division I and Division II competing with teams representing Headington, Morris Motors, Oxford City, Charlbury etc. We won the Division II Championship in 1948 and shared first place in Division I the following year. Friendly matches, lightning tourneys and other competitions are held from time to time.

Ordinary meetings commence late September and are held throughout the winter months in the Card Room, Social Club at 7.30 p.m. on Thursdays.



LIGHT MUSIC GROUPS

No review of Harwell leisure activities would be complete without tribute being paid to our light music groups : to John Tennison and His Orchestra and to Eric Potter and His Music.

The Orchestra of John Tennison (HG9), as well as playing for dances, has played for wedding receptions and Divisional Dinners. It has achieved a high standard plus versatility and on Sports Days added greatly to the attractions of the Horticultural Show.

The Nine-piece Band of Eric Potter (HG7) was formed in 1951 from Harwell Staff. As well as playing in the Social Club, it has achieved a reputation further afield, gaining third place in the Oxford Dance Band Contest of this year.

HORTICULTURAL SOCIETY

The purpose of the Society is to offer a service to its members. Members can obtain seeds, fertilizers and sundries at reduced rates. During the winter months talks are given by acknowledged experts on various horticultural subjects. The main event during the year is the annual show of flowers, fruit and vegetables, which is held on Sports Day.

DANCING CLUB

The Club aims to foster an interest in and provide facilities for dancing of all kinds except those covered by the Reel Club.

Old time dances, with instructions, are held in the Social Club on alternate Saturdays.

Modern dances are held on special occasions.

THE OUTCAST

Written for "Harlequin" by KEN BOBIN, *Scientific Liaison Officer, United Kingdom Scientific Mission, Washington, D.C.—a unit of the British Commonwealth Scientific Office*

As if waking from a dream, he suddenly realised that he was racing at tremendous speed through groups of his fellow-creatures. Strangely enough, he did not seem to collide with any individual members of the groups, although they were all moving as if taking part in some heated argument. Now and then he would see another like himself, rushing along, for all the world as if trying to flee from some catastrophe.

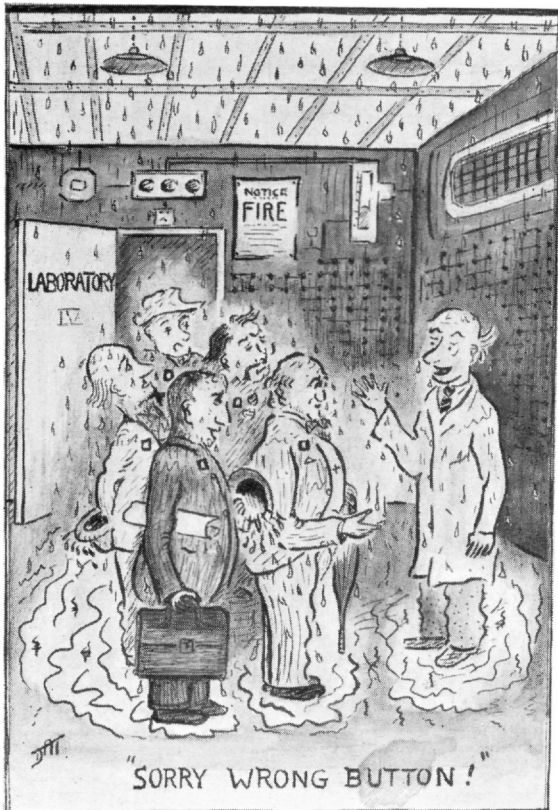
Gradually his pace slackened, but he was still urged onward by some powerful impulse within himself. Desperately he sought to understand the reason for his strange flight; what had happened to him, that he should behave in this strange manner? While thus contemplating, he ran full tilt into another traveller; they collided with some considerable violence, but he kept going, though now more slowly and in a different direction. Looking back, he saw that the one with whom he had collided had also resumed his headlong flight.

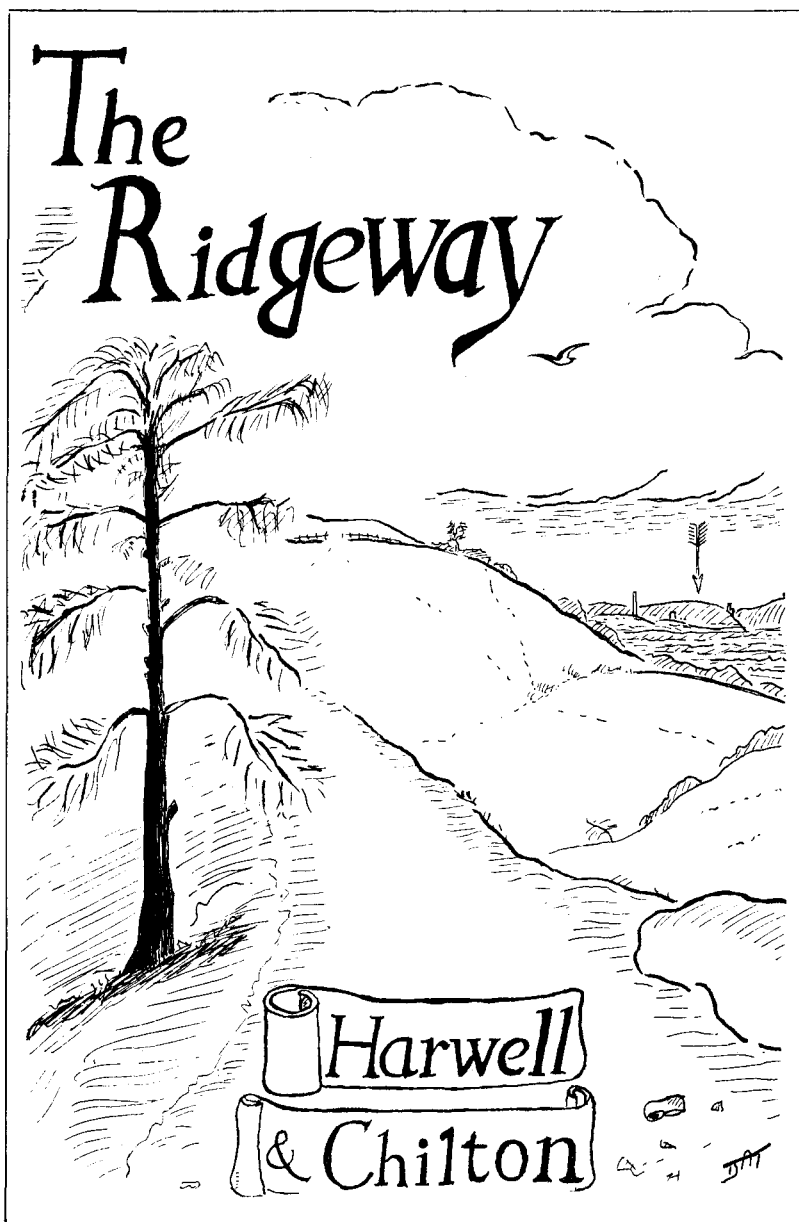
Suddenly he ran clear of the crowds and found himself at what he took to be the city wall. Massive though this wall appeared, it seemed to open at his approach as though by magic and the next instant he was crossing the wide moat and was in the open country beyond. He could see no bridge, nor even a gate, and he concluded that the drawbridge by which he crossed had been as rapidly drawn up behind him, as it had been let down at his approach.

He was now travelling much more slowly and, looking around, observed that here and there were small groups, gathered at quite large intervals, although, from the motion of the individuals making up each group, it was apparent that they were involved in just as heated a discussion as the larger, more closely-packed groups in the city behind him. Occasionally he would glimpse another wanderer like himself, and he noticed that they all seemed to pick their way carefully between the scattered groups, as if afraid to become involved in the argument. For his own part, being so ignorant of his own origin, he had no great desire to meet either the individual travellers, or the arguing groups.

Pondering the strangeness of the scene, he wandered slowly along for some considerable time, and was suddenly aware that before him was a city like that whence he had come; or had he gone in a circle and returned to his starting point? Again, as if by magic, he was across the moat, through the city wall and amongst the crowds again. At last, he could stand the uncertainty no longer, and, seeing a large group directly in front of him, he moved boldly forward into the outskirts of the crowd. He found that he could move freely enough, but his presence obviously excited them and caused them to move even more violently than before. He moved about, vainly trying to find a leader or someone in authority, and he was about to make enquiries from a neighbour, when the crowd suddenly split, apparently by common consent, into two rival groups, and moved swiftly away from each other. At the same instant, he saw two or three poor unfortunates being ejected violently from the crowd, and he was amazed to see them rush madly away, as he himself had done so long ago.

The explanation, of course, is very simple. He was a pile neutron, and the crowd was a uranium nucleus.





Above is illustrated the cover design of the new magazine of Harwell and Chilton, showing the A.E.R.E. chimney in the background. We reproduce it as a reminder that, apart from the "Harwell" referred to elsewhere, there is another Harwell—a picturesque village a mile or so distant—whose title A.E.R.E. has usurped! This, the rightful Harwell, was mentioned in the Domesday Book and earlier in two Saxon Charters.

You come up to Harwell on an ordinary "A" class country road from Oxford, and the first thing you notice is a wire fence with warning signs hanging on it. There is a copy of the Official Secrets Act on the front gate, and close by is the police guard. It is built on the site of a wartime airfield from which airborne forces took off in gliders on D-Day in 1944 for the invasion of Normandy. There are no surrounding houses; the buildings stand in isolation on a large flat plateau, and beyond them there is nothing much to be seen but the green, empty slopes of the Berkshire Downs.

The residential quarters are composed partly of R.A.F. houses, put up in the War (Sir John Cockcroft lives in the rectangular three-storey brick house which was once occupied by the R.A.F. Station Commandant), staff hostels, and two recently constructed villages of standard aluminium prefabricated houses which look like enlarged rabbit-hutches. These villages are placed on either side of the airfield.

The main site, the actual laboratories and office blocks, stands between them, enclosed by the security fence. The administrative block is the first building inside the enclosure. A low two-storey structure, it is a light and airy place, lit by glass domes in the roof, and in working hours it is no different from any other English office. These things, however, are in very great contrast to the atomic pile itself. It is a massive thing, tended by men in white overalls.

There is no dust, no noise, no hurrying, and no disorder. A clinical calm covers all, and on a first visit it is difficult to avoid feeling unnaturally alert and wary as though one were entering some unexplored cavern from which wild beasts might suddenly pounce out.

Across the wide clear concrete floor of the building men go by like sailors on the deck of a ship. There are many notices saying 'Danger' and 'Radio-active Waste,' and the words 'Neutron Ray Trap' are painted on the side of a concrete cube that is intended to block some vent which reaches, like a dragon's throat, into the centre of the pile.

In one quarter men are packing and despatching containers of isotopes which are used in hospitals. Others are manning compressed-air pumps which drive the rods of uranium into the pile. Stacks of graphite lie about, looking like loaves of black bread. Large cranes reach downward from above, and in the control room there is a wide arc of lighted dials which reminds one of the cockpit of an aeroplane, immensely magnified, or possibly the bridge of a ship. Most remarkable of all, there is a

Impressions of Harwell

ALLAN MOOREHEAD

In his book on atomic research and espionage "The Traitors" Published by Hamish Hamilton Alan Moorehead quotes from "Harlequin" reciprocating this gesture on a larger scale, by arrangement with the author, we reproduce these impressions for our readers outside of Harwell. For our readers from inside Harwell it may be the fascination of recapturing the early impression or of seeing the self as others may see one.



Main Administrative Building Harwell (Photo by A.E.R.E.)

notice with red lettering strung high above your head, and this reads: 'No Smoking on Top of the Pile,' as though one might say: 'No Lighting of Matches in the Crater of the Volcano.'

The 'hot' laboratory is more strange than

the pile itself, for here men work like divers in rubber boots and gloves, and on emerging from their work to the uncontaminated air they step into transparent cubicles not unlike a telephone booth, to be sprayed with citric acid. They cannot touch objects inside the laboratory;

as they advance upon a door they cut a photoelectric ray and the door opens mechanically before them. Every member of the staff is regularly given an X-ray test and a medical examination to gauge his reaction to the radioactive atmosphere, and the safeguards are such that no one has been affected yet.

But the visitor will find out how thin is his own facade of assurance if, as he is standing by the pile, there is some sudden noise—someone drops a girder or there is a blast from the compressed-air pump. Then he will jump. Then his imagination will remind him that the end result of this work could be the annihilation of the world.

And he is not reassured when he is told that the atomic bomb is only a small part of the study of nuclear fission, that already the hospitals are being greatly helped and that the wasted heat generated in the pile is being put to practical use in warming Harwell laboratories in the winter.

Outside their work the staff at Harwell have as much opportunity to live a normal life as the members of any other engineering community in Berkshire. They pass freely in and out of the security fence; many of them in fact live in Abingdon and other towns some miles away. They are not divided from the rest of society except only in this—having signed the Official Secrets Act it is up to them to be wary in their conversation. And this does create a strain, for in a natural state most men do not enjoy keeping secrets any more than they prefer to keep money unused in the bank. Their conditions of domestic living are unexciting and unexceptional.

They have their canteen at Harwell, and they emerge there each day—rather pale and thinnish young men with a student seriousness—to eat a meal of soup, meat, and vegetables and perhaps a slice of sponge-cake with a little coloured jelly on top which is the normal thing in British canteens—unappetizing to a foreign eye but not injurious. Their conversation is a garrison conversation, and not markedly different from the usual run of such conversations in canteens all over England. In short, they are remarkable only for their ability as scientists, engineers, and chemists, for their integrity, their interest in their work.

Harwell has become a tradition for the scientists now. It has a routine, solid buildings, and a local loyalty, and it is as firmly established as any institution is ever likely to be in twentieth-century Europe.

Enquiry Column . .

In accordance with one of the aims of this magazine we shall within its pages provide a reliable guide of new services and of those places which readers can be recommended to visit. To readers now establishing a new home in the localities of Abingdon, Wantage, Didcot and Oxford this news service may be of value.

Although often asked, we have not been able to recommend any place to which our colleagues, coming in to Oxford for shopping or for a theatre visit, could go for a first-class luncheon or dinner. Their enquiry has merely re-called in our minds memories of long periods of waiting in poor surroundings for food not worth the waiting.

We were somewhat sceptical on receiving a recommendation to visit the Elizabeth Restaurant. This is in St. Aldate's, about 200 yards from Carfax and near the recently-renovated Bishop



Ashdown

King Palace. We were however, very pleased with the excellent food promptly served in the most pleasant surroundings of a Tudor dining room. Our photograph does not show the genuine Tudor period panelling, but it does show something of the view from the window : the towers of Christchurch with the Memorial Gardens in the foreground.

The photograph shows nothing of the magnificent flower gardens or of the meadows of Christchurch which stretch away into the distance. Considering that the meadows are only 200 yards from the busy centre of Oxford these must be one of Oxford's unique possessions. In this category too the restaurant must certainly be included : the service is first-class, the staff most efficient and pleasant, the cuisine in a class of its own. Hotel-keepers in the city cannot explain how with such quality the restaurant can pay, nor can we, but the young proprietress tells me of her satisfaction of showing others that even in this country the preparation and cooking of food can be an art.

To the reader who sent us this recommendation we give our thanks and to you this additional information which we collected : "Elizabeth," 84 St. Aldates : Open all day including Sundays. Morning Coffee ; snack bar ; luncheons 12.0—2.30 ; dinner from 6.0 p.m. ; after theatre supper till 11.30 ; large wine list ; tables can be reserved. Tel. : Oxford 2230.

Further enquiries and recommendations will be welcomed for this column—(Ed.)

The Aims and Activities of the Recreational Association.

The Recreational Association is an association of all clubs and societies which are engaged in recreational pursuits, and which are open to any member of the establishment.

The aim of the Association is to organise and promote amateur sport and recreation for A.E.R.E. employees and their families and friends, and to encourage and assist, financially if necessary, the formation of clubs and societies for those purposes on the Establishment, and repair and maintain the amenities ceded by the Establishment.

The Association has a number of general activities which include the Social Club (about which you can read more later) the A.E.R.E. News (each Thursday), the publication of this Magazine, the organisation of the annual Sports Days, etc. The association also negotiates where necessary, with the Establishment and the Ministry of Supply.

Constitution

Copies of the constitution and rules are available from the Secretary. Briefly, the constitution is as follows :

The management of the affairs of the Association is in the hands of the Central Committee. This consists of the Chairman, or his nominated deputy, of each club or society, and one representative from each Residents Association together with such co-opted members as the Committee may from time to time decide. The Committee appoints its own officers.

To assist the Central Committee it has a number of sub-committees.

The Business Committee deals in the first instance with all financial affairs. Two sub-committees, the Bar Committee and the House Committee, under a joint Chairman, are responsible for the running of the Social Club. The House Committee is responsible for allocation of rooms in the Social Club.

The Social Club, situated just outside the security fence, has a large Hall for Dances and Whist Drives. It contains a bar and supplies light lunches and teas. In other rooms games such as billiards, badminton, darts and table tennis can be played.



Gerald Burger

Visit to Braziers Park

Whatever else may be said about the present age, there is no doubt that it presents a challenge especially to those not content to grope through life without conscious aim, but who desire to understand the meaning of the times. In times past, philosophers, the men of religion, and the scientists have been at variance with each other, but now there becomes evident a more positive and constructive approach that is spreading to all spheres of thought and action—to philosophy, religion and science, to politics, economics and to industry.

Braziers Park, which we visited recently to write this article, was found representative of this new constructive approach, but practically unique in the breadth of the field it covers.

Apart from the organised courses of lectures and discussions on subjects such as economics, biology, psychology and literature, there are opportunities for study in most pleasant surroundings. Its spacious country house stands in fifty acres on the edge of the Chilterns.

These courses are held at week-ends and for longer periods. Much of the time, we found, is devoted to discussion and new techniques of

conference seem to have been evolved. Some week-ends are devoted to experimental music to which, we are assured, all who make music, enjoy music or would like to do these things are made welcome. For those interested in art other week-ends devoted to experimental painting and modelling will have much to offer. Materials are provided and it is emphasized that newcomers need not be deterred by lack of experience. For the art enthusiast, Dr. Glaister assures us, the painting studios can be made available any week-end by arrangement.

And where is Braziers Park ?

Braziers Park is 10 miles from Reading with buses passing every two hours. From Oxford it is as near as Harwell and we found the 'bus service from Wallingford took us there in a few minutes ; the address is given in their announcement overleaf. As Braziers is recognized as a charity organisation for income tax purposes and like this magazine is not designed for profit-making, we welcome the opportunity of giving this free publicity.

In conclusion, Braziers Park offers opportunities of which few have heard and from which many have much to gain.—(Ed.)

FOR

PRINTING OF DISTINCTION

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The ALFRED PRESS WANTAGE

Wantage 133

This Magazine is our
endorsement

BRAZIERS PARK, Ipsden, Oxon

For WEEKEND COURSES, PRIVATE STUDY AND
RELAXATION, HOUSE PARTIES, ETC.

Braziers is a pleasant country house set in lovely
Chiltern country 18 miles from Oxford, 50
from London and 14 from Harwell

Subjects include

PHILOSOPHY AND LOGIC SQUARE DANCING
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Particulars are now available of :—

WHITSUN Music, Dance and Drama Festival
International Seminar, July 28—August 11
Sensory Summer School—'Values in Conflict'
August 19—September 2.

Ask for particulars from :

THE WARDEN, BRAZIERS, IPSDEN, OXON.

Telephone Checkendon 221

OLD HARWELLIAN SOCIETY

"We could also," writes the Director in the leading article, "found an Old Harwellian Society of members who have gone out to University and Industry here and in other parts of the Commonwealth."

To this end we invite all Old Harwellians, who may have had a copy of this magazine sent on to them, to write in for information and to make themselves known. Under the auspices of this magazine the Society offer help and information under the following address :

"Harwellian Society, c/o Harlequin Magazine, A.E.R.E."

Articles and letters from Old Harwellians are particularly welcomed for publication and in the previous pages we have been pleased to include contributions from two Old Harwellians: Kim Krenz (Canada) and Ken Bobin (U.S.A.) We now hand over the presses to a third, Prof. Skinner who has already received mentioned in the Directors reference to the early days at Harwell.

APPRENTICES' ASSOCIATION

This was formed in September, 1952 with the object of aiding social activities of apprentices and of organising visits to other establishments. A third function will be served later this year: that of liaison between present and past apprentices. *To those who this year complete their apprenticeship we wish all success and from those, in particular, who have already booked their passage to the Dominions we shall hope to receive news (Ed).*



OLD HARWELLIAN

Since I left you, the years have gone by
In the quiet of a university.

I console myself, when in adversity,
By wearing the Old Harwell tie.

When a student dares set me a teaser

On the subject of physical science,

I point out, with an air of defiance,

That I'm sporting my old Harwell bleazer.

Or, sometimes one asks, with forced laugh,

How atomic bombs can go bang,

But I say, as I tell him go hang,

"Take a look at my old Harwell scarf."

I may boast, without risk of a snub,

That we have, here in Liverpool

Quite a promising nuclear school,

And I've founded an old Harwell club.

There may be enquiry on what

Is the state of our big cyclotron.

Well, of course, if it's not working soon,

I'll be eating my old Harwell hat !

But, if asked how I hope to apply

My days in the service of Britain,

Then I plead, with a heart somewhat

smitten,

"I'm still wearing my old Harwell tie."

H.W.B.S.

THE BEAU REGARD

We found the *BEAU REGARD* among 10 acres of pine and cedar timbered ground sloping down to the river. Apart from the boating and facilities for good fishing for residents of the furnished chalets, the modern swimming pool sketched above is available for non-residents on an all-day ticket for only 1/6 ; for the very young there is the paddling pool and toddler's corner with resident nurse. The Restaurant offers a tray service on the lawn while the modern ballroom, laid out in continental style, has supper dances a regular feature.

The address is "The New Beau Regard, Wallingford, Berks." The Telephone No : Warborough 118. It is found almost half-way between Oxford and Reading (Just outside Wallingford) and we feel it can certainly be recommended for the supper dance or for a holiday during the summer months. Beautiful scenery is encountered both up and down stream on this part of the Thames



MEMBERSHIP OF THE RECREATIONAL ASSOCIATION.

Full membership is open to all persons employed at A.E.R.E. and their families. Any person suitably connected with A.E.R.E. may also be admitted to full membership by the Central Committee.

Persons with no connection with A.E.R.E. may in special circumstances be admitted to honorary membership by the Central Committee

Membership fees for full members are 5/- per year for monthly paid staff and 1d. per week for weekly paid staff paid by deductions from salary. Only members of the Association are entitled to join the individual clubs and societies—for which the subscriptions range from 1/- to £1. Persons under the age of 18 may join any club on payment of 1/- only.

A payment of an omnibus subscription of 25/- entitles the member and his family to apply for membership of any or all of the affiliated clubs, without further subscription.



The activities and achievements of the associated clubs are outlined in this magazine. A complete list of clubs is given on page 33, together with a list of Club Secretaries.

Newcomers wishing to join any of those clubs are requested to contact the Secretary.

If this list does not include your particular interest, why not try forming a club? Help and advice will be freely given by any of the Association's officers :

Chairman : Mr. F. J. Hill.

Deputy Chairman : Mr. H. Roskell.

Treasurer : Dr. N. F. Goodway

Secretary : Mr. F. S. Richards.

Acting-Secretary : Mr. S. J. J. Waldron.

Spotlight on HARWELL DRAMATICS

Jane Steps Out

The Happiest Days

1952

Dangerous Corner

I Killed the Count

1946

Misalliance

Blithe Spirit



STAN COCKING, *Chairman A.E.R.E. Dramatic Club, 1950-52*

Here I shall tell you about the Dramatic Society : a brief account of what we are trying to do as a society and of the arduous of putting on shows, from which you may glean the spirit of the group—the spirit which drives us on through weary hours of hammering, painting and rehearsing.

Between 3 and 4 shows per year have been maintained since the society's first production in 1946. The standard of plays has usually been worthy of the name 'Dramatic,' and the standard of production and acting has, in my opinion, been good. However, the society, at the beginning of 1952, found itself steadily losing money. Now, in order to run a worthy society we needed not only stocks of wood, hessian, paint and screws, for creating sets, but a permanent set of carpentry tools, buckets, brooms and paint brushes. Everything had to be begged or borrowed, and this doubled the arduous of putting on a show. In short, we had to make some money. We decided that we must put on 'pot-boilers,' which is, for the layman, a light comedy with box office draw. Our esoteric actors

threw up their hands in horror, but much though it hurt, we put on two light comedies and enjoyed doing them—and made money, as predicted. Our Treasurer now says that we can buy some essential tools and materials, and that if we do just one more box-office play, we can think about a costume play. You may remember our "Much Ado About Nothing"—if so, you will certainly remember the beautiful costumes. The cost of hiring these costumes is so high that if we sold all tickets we should still lose on the venture—Much Ado lost £20. Costume plays, of course, give great pleasure, both in acting and in staging. The language and movement derive a refreshing newness from the dress and furniture of the past.

Well, you say, why not make your own costumes ? Let me tell you a little of what putting on any play involves. Let us assume that the producer has cast his play and found a Stage Manager, "Props," Prompter and Wardrobe—an epic struggle in itself. At least 3 weeks before the show the set must be designed and flats sorted out or made, torn or loose hessian must

be replaced and cleats and ropes fixed so that the rough set may be tried. Now it all comes down, and labour is divided between painting the flats and making fireplaces, shelves, window frames. One soon learns why closing a door on-stage invariably shudders the whole room. Now the actors must rehearse on-stage to get moves and voice pitch settled, but the rough painted set must go up too; also, the electricians must get the lighting fixed while "Props" arranges a list of articles to be whisked on and off in the semi-gloom between curtains. The result is inevitable—we "strut and fret" for several hours among trailing cables, paint pots and step ladders, often half-hidden by swooping flats, wielding maybe a table leg for a gun, while a dozen hammers judder the floor, and the lighting flashes amber-blue-pink like a futuristic traffic signal. All this would be more bearable if we were not in the drabest, dustiest and coldest, most depressing hall I have ever known (the old R.A.F. Gymnasium). One day we must offer a prize to the person who can light a single fire without filling the entire gym with smoke, or guess where the next torrent through the roof will strike.

All this makes no mention of the arranging of insurance, payment of royalties, borrowing of stage furniture, arranging seating and making the props. Every blood-stained bank note, initialled handkerchief and quill pen, may take hours to prepare and may appear for a few seconds. Indeed, any play we have put on here has involved a really tremendous effort. There are never too many people helping with its preparation, and the task of putting on more elaborate shows without a better reserve of facilities and more capital is impossible.

I often wonder why we go to so much trouble as I recall the terrors of the gymnasium in winter. The primary driving force is the genuine desire to create

ILFORD FILMS

You can't go wrong with any of these famous Ilford roll films **SELOCHROME, HP3 or FP3**

You'll get a good picture every time.

for faces & places

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by our efforts a pleasing, substantial whole, with an atmosphere and personality of its own, out of the pile of grubby flats, tins of paint and sets of books. The atmosphere of the first night once felt is never forgotten—the mutual appraising of make-up, the scurrying stage staff, last-minute line scanning and frayed tempers, (real or assumed)—as with head devoid of all memory, we stand there awaiting those final agonising seconds for the 'cue' that is 'first entrance.'—all speak of excitement and urgency. In the tension, all our hours of toil seem to waver in the balance, and it is not until we hear the first laugh that we relax and know that it really was worth it all.

The Dramatic Society is now in need of new personalities, so if you have even a mild interest in dramatics, do come along and feel for yourself the contagious thrill of "putting on a show."
S.J.C.



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Complete House Furnishers
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China, Glass, etc.

Bedding Re-covered and
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Telephone Abingdon 47

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LOCAL, LONG DISTANCE
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THE STORAGE OF FURNITURE

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OXFORD**

Telephone
Oxford 2397

Telegrams
"Removers, Oxford"

Proof Readers' Competition

Of the four deliberate mistakes, that were concealed by arrangement with the firms concerned in three advertisements of the last number, three were successfully hunted down by the observant. Advertisers were accused of hiding behind false initials, addresses and even professions, while against one firm the selling of goods without the customary hyphen was the charge submitted. One reader writes to say that the address of "11 Old High Street Headington, Oxford" is the correct address of Layton's of Oxford the one quoted in New Road being false. For his benefit we state that these are but different branches while for the benefit of another reader let us confirm that among other things Coxeters of Abingdon can in fact undertake undertaking.

Let it be said now that with so many of our readers new to the area we would not include anything so difficult as the above in this competition: no local knowledge is called for. Moreover when G. T. Jones & Co. of High St., Oxford, "shippers and bottlers of pure wines from all countries are described as "suppliers to A.E.R.E. Harwell" no query from Costing Section or from Stores Receipt Section is really relevant: it must just be assumed that A.E.R.E Social Club is really the consignee.

From among those competitors who were nearly correct, being mistaken only in the fourth item, the following was selected the winner:

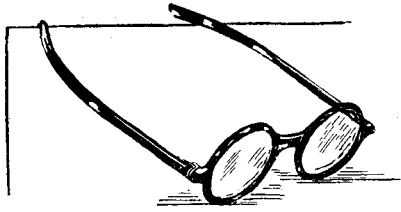
43, North Drive,
A.E.R.E., Harwell.

Dear Sirs,

I note that in your last 1951 issue of the "Harlequin" I was successful in spotting the deliberate mistake, but was less successful in the raffle which decided the ultimate winner. Perhaps, however, with four errors to find in the Autumn issue, a lottery may be unnecessary—I hope!

I have perused your latest edition from cover to cover (with some measure of enjoyment incidentally) and I have decided that the four errors are contained in the following advertisements:—

1.) Beesley's, High Street, Abingdon. Inside and end cover. "CRAFTMANSHIP" twice appears without the letter "S" after the "T"
2.)
3.) Faulkner & Son, Cardigan Street, Oxford, Page 32. "Norman & Son Light-Weights"



should have been presented as "Norman" and "Sun" Light-weights.

4. Simonds of Reading. Page 3. There is "a" tavern in the town! Cheers!!!
Yours truly,

A. C. DAVIES.

As stated the last advertisement referred to in the winning entry contains no error and is set out as it appears on the side of Thames Valley 'Buses. We would thank all other competitors who have contributed to the success of this competition and also the business houses who have given valuable support to the magazine.

The wrong selection of a letter by the printer or its omission can often have disastrous results. As evidence we quote the following extract of what made front page news in the "Oxford Mail":

**"PRINTER'S ERROR
STAFF ARRESTED"**

The entire staff of the East German weekly newspaper, 'The Modern School,' has been arrested and charged with sabotage after the discovery of a sentence in the current issue which reads: 'Soviet educational methods will ever be a cause of dis-unity in Germany.'

The staff says that dropping the letter 'n' from the word 'never' was a printer's error, Exchange reports."

On behalf of our printer's compositor we should state that the above is quoted verbatim and includes the spelling of "Exchange" with a "v" in the last line.

And now you will be ready to tackle the Proof Readers' Competition in this issue. The fourth mistake which defied identification in the last number occurs again with the clue that it is a conflict of singular and plural. The number of other deliberate errors that are included by arrangement with the business houses concerned will not be specified, but the second clue will be given that two of them are to be seen on those pages facing you. Having listed them, you may include theories and speculations concerning anything which you suspect may constitute the remainder.

Prize for first correct solution opened: Half guinea with book tokens as consolation prizes. Entries to reach the Editor before June 30th c/o Central Registry.

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ON THE CONTINENT

The increase in this year's travel allowance has taken much of the financial hazard out of driving on the continent, but even on the old allowance it was possible to enjoy quite a reasonable motoring holiday. Last year we followed the Rhine, spending the final week-end in Brussels, and although we had to depend on what we could remember of school-boy German, we managed to find our way and buy food and petrol. Our limited vocabulary encouraged people to risk their own smatterings of English on us, and as all the really useful words in one language seem to sound the same in the other, we managed to hold some quite successful, if occasionally highly hilarious conversations.

Once we were in Belgium, my brain flagged at the three-cornered mental struggle of rusty French, newly revived German and irrepressible English, and when approaching Brussels we were hailed by a rather nondescript hitch-hiker, I kept my opening remarks to a strict minimum. However, despite a curious accent, our passenger appeared to have a fair command of English, and, choosing our words and speaking slowly, we conversed for some time before it occurred to me to wonder what his nationality was. Looking back now, I cannot for the life of me remember what led me to decide that he must be a Dutchman, for just as I had reached that conclusion he asked where we were from. "London," we said, "And you?" "Oh, I'm from Aberdeen," was the reply.

ISOTYPE.



MOTOR CLUB

The Motor Club meets fortnightly on alternate Mondays at 7.30 p.m., in the Social Club.

The objects of the club are the encouragement of motoring in all its aspects, and the promotion of Sporting Events—Scrambles, Rallies and Cross-Country Navigation Tours.

It is hoped to equip the workshop (from the proceeds of sporting events) with some of the tools which are not normally available to the man who does his own running repairs.

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CLERIHUEW COMPETITION

This competition has in the past brought forth a most interesting and amusing collection of all sorts. Such as :—

Basil Rose gave Harry Crooks
A handicap of two rooks,
Harry Crooks *nearly* made a long nose
At Basil Rose. J.F.

And If you should wish to parley
With Dr. Marley
Don't be enraged
To find the 'phone engaged. C.A.D.

Too often, however, the prize has had to be awarded not to the best clerihew submitted, but to the best one that could be published. In order this time to have the best effort not too libellous, the subject, as well as being confined to atomic energy, is confined also to the impersonal category.

The following will give an idea of what is required :

Weep
For the Gleep
Now that Bepo
Of Isotopes is the depot. H.W.B.S.

And It has been decided
Physics is divided
Into Nuclear and General
What's where is immaterial. X.Y.Z.

A book token will be awarded the best clerihew submitted.

FICTION WRITING

For the best fiction contribution on the theme of *atomic energy* half a guinea will be awarded. The length should be that of "The Outcast" (page 16, approx. 500 words), but a contribution of half this length will be considered if of special merit. Book tokens will be awarded all other efforts published.

Critics' Competition

The half guinea awarded J. Wilcox-Baker was passed to the Welfare Fund at his request.

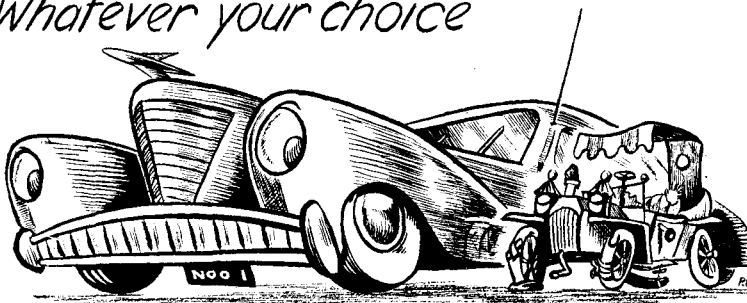
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Dear John,

As a discerning motorist yourself, you may be interested to hear of the experience I had recently when I called at the Rowstock Garage. At a place so far in the country I did not unreasonably expect to find such a rather rural outlook. But how wrong I soon found I was, for I found there an almost astonishing anxiety to give real service. I had a chat with the Managing Director of the business and he was most anxious to show me what he and his staff were trying to do for the motorist. He told me that he tried to see things from the customers' point of view and although faced with many difficulties in building up a post-war business he had, he thought, got a grand team together and they were all doing their utmost to help all comers.

Do you know there is really nothing that this garage cannot do for you, if it is a job for which they are not equipped they have got a number of absolutely reliable specialists to whom they send the work and by this means they can save money and also guarantee a first class job.

To only mention a few of the services that are offered they have a most comfortable waiting room with spotlessly clean cloakrooms, so that if you are having your car washed by the most up to the minute "Washmobile," which also gives the car a thorough shampoo; or if there is that tiresome puncture to be attended to; or the car is to be greased and in any way serviced there is no need to stand out in the cold while the job is done.

Your car can be steam washed underneath and this is a good idea after the winter, in fact there seems to be everything laid on for giving quick and efficient service.

If you have not already done so you really should give these people a visit.

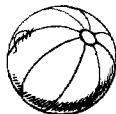
Wishing you a very happy summer's motoring.

Sincerely yours,

(Advt.)

A. M. OTERIST.

Harwell



Sport

CRICKET CLUB

The club runs a Saturday and Sunday XI and plays a variety of opponents both locally and further afield. A proportion of Sunday fixtures are all day games usually against stronger opposition from London and the home counties.

An Evening League with departmental competition also takes place from May to September, and nets are available every evening for practice.

RIDGEWAY CRICKET CLUB

The Ridgeway Cricket Club which is affiliated to the Women's Cricket Association has about 16 to 20 matches in the season both midweek and weekends.

Practices are held on Wednesday evenings when coaching is available both for beginners and for more experienced players. The club is open to members still at school.

BADMINTON CLUB

Mixed play in a genial club atmosphere is the aim on the weekly club nights through the winter season. Arrangements can be made for elementary tuition for beginners where the demand exists.

Friday matches are arranged from time to time.

SWIMMING CLUB

At the time of going to press this is the youngest of the A.E.R.E. Clubs. It looks forward to the day when Swimming Baths can be built on the site, but in the meantime runs Coach Trips each Tuesday to the Oxford Swimming Baths.

TABLE TENNIS

The Club meets for play in the Social Club on Tuesdays. The activities include a ladder competition, club knock-out championship, and a club singles championship summer cup.

Two teams are entered in the Didcot Table Tennis League.

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RUGBY FOOTBALL

The A.E.R.E. R.F.C. formed in 1947 has a very enjoyable series of fixtures. Probably the most thriving outdoor club, it runs two regular XV's and from its fifty or so members, has on occasions provided players for the Berkshire XV and the Civil Service XV.

In addition to local games, the Club usually enters for the Civil Service Cup, and it also runs an inter-departmental Seven-a-Side Tournament at the end of each season.

SQUASH RACKETS CLUB

The A.E.R.E. Squash Rackets Club provides facilities for playing the game to all members of the recreational association.

There is an annual subscription and during the hours of darkness a court fee paid into a prepayment meter covers cost of lighting etc.

Players reserve the court for a playing period by writing their names on a booking sheet provided in the court.

A series of matches is arranged and teams are selected from as many players as possible having regard to the relative strengths of the opposing teams.

FOOTBALL CLUB

The Football Club fields teams in the Newbury Premier League and the North Berks League.

The teams show up very favourably in their respective leagues, but they are anxious to develop any hidden talent which may be on the site.

In 1952/53 A.E.R.E. reached the final of the Berks and Bucks Junior Football Cup.

Anyone wishing to play Soccer should contact the Hon. Secretary.

HOCKEY CLUB

The Mens Hockey Club was formed in 1946 and has steadily increased in strength since. Only one eleven is run, playing about 25 games in a season, including a number with Oxford Colleges. Members are expected to supply their own gear and new members are very welcome.

TENNIS CLUB

The Tennis Club provides good and adequate facilities (5 courts—one bookable) at a very reasonable cost. All who are interested are welcome—from the beginner to the experienced player who may qualify for one of our Oxfordshire League teams.

Club afternoons (Sunday) and evenings (Tuesday) are arranged to bring members together. Private play is free to members at any other time.



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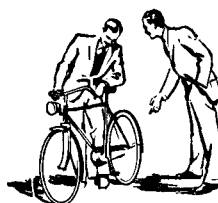
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Letters to

The Newbury Weekly News,
Newbury.
December 12th, 1952.

Newbury

To the Editor, Harlequin Magazine

I write to congratulate you upon the production of Harlequin. It is a lively and healthy youngster; a credit to your Editorial Board. May it have a long life!

Yours faithfully,

W. A. GODDARD,
Assistant Editor.

C.I.N.O. Editorial Office,

Admiralty,

Enslleigh, Bath.

11th December, 1952

The Admiralty

To the Editor, Harlequin Magazine

We were pleased to receive two copies of your interesting magazine with your letter of 25th November. As these copies have given us our first sight of 'Harlequin' and you refer to a copy of our Journal received in 1948, we cannot help thinking your letter must be in response to ours of the 13th August, 1948. If this be true we join you on common ground and you have our sympathy for we, too, have the greatest difficulty in catching up with our correspondence.

Seriously, however, we are delighted to receive your letter and it will be a pleasure to continue the correspondence and to exchange magazines on publication.

Our best wishes and the compliments of the season.

Yours sincerely,

C. E. BADDEN,

The Editors, N.O.I. Journal

Naval Ordnance Inspection Journal is published Quarterly at 1/9 (Ed.).

Daily Express,
London.

14th January, 1953.

Chapman Pincher

To the Editor, Harlequin Magazine

I was much amused by the "Clerihew."

I shall be very happy to do a contribution for you some time during this year, though on what subject I have no clear idea at the moment but no doubt something will suggest itself after the festivities are over.

Heaven knows how the rumour got around that I ever disguised myself as a labourer to check the security system at Harwell. I can assure you that I have never made such a check and would not be so stupid as to try to enter the Establishment unofficially.

I look forward to meeting you soon.

With best wishes.

Yours sincerely,

CHAPMAN PINCHER,

Science Correspondent.

The Carbide Courier,

Union Carbide & Carbon Corporation,
Oak Ridge, Tenn., U.S.A.

To the Editor, Harlequin Magazine.

We were pleased to hear of you through K. J. Robin of the United Kingdom Scientific Mission in Washington, D.C.

To establish contact between our two publications, we have placed your name and address on the Carbide Courier's mailing list.

Very truly yours,

MARC V. SIMS, Editor.

the Editor

San Francisco

U. S. Naval Radiological Defence Laboratory,
San Francisco 24,
California.

Copy of letter received by :

Mr. K. J. Bobin

Scientific Liaison Officer

United Kingdom Scientific Mission

Washington 7, D. C.

Dear Mr. Bobin:

Thank you for sending the copy of **HARLEQUIN** which the staff of our **BULLETIN** has enjoyed very much. We should like permission to reprint some of the material which is especially applicable to a laboratory such as ours.

Although our employees' publication is not in the same class with the *British Quarterly*, I am enclosing a copy of the weekly **BULLETIN** and Employees' **HANDBOOK** Supplement for your information. Perhaps you feel Mr. T would be interested in being added to our mailing list. I know we should appreciate receiving future copies of your sprightly **HARLEQUIN**.

Sincerely,
Marjorie G. Sullivan
Head, Information Services Branch

Atomic Energy Research Plant, Deep River

To the Editor, *Harlequin Magazine*

I was surprised and pleased to get your letter the other day, and I was happy to learn that *Harlequin* is still very much alive and flourishing—as evidence, the handsome enclosed number.

I am sorry to tell you that the *Deep River Review*, *Harlequin's* opposite number here, never raised its head again after the fourth issue. Perhaps this correspondence will encourage a new beginning. Let us hope so.

Yours faithfully,

F. H. KRENZ
Deep River.
Canada.
January 31st, 1953.

Springfields

Ministry of Supply Factory,
Springfields.
29th December, 1953

To the Editor, *Harlequin Magazine*

Thank you for your letter of the 15th December and the three complimentary copies of your Magazine 'Harlequin.' We were very impressed by the Magazine and the standard of the articles.

We ourselves have no publication at Springfields. The Sports and Recreational Association used to produce a monthly Magazine, but the expense of printing finally killed this venture.

May we wish 'Harlequin' every success. The publication leads us to believe that it is due for a long and distinguished career.

Yours sincerely,

G. G. SMITH,
(Labour Manager)

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Harlequin Dr. B. A. Loveridge
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Rifle Club G. Biddle
Rugby Club Dr. B. Frost
Scouts C. Urquhart
Social Club R. Groves
Squash Club Miss M. A. Winsor
Table Tennis Club J. D. Ricketts
Tennis Club R. Murdoch
Townswomen's Guild Mrs. E. M. Chaney
Women's Club Mrs. C. Burnett



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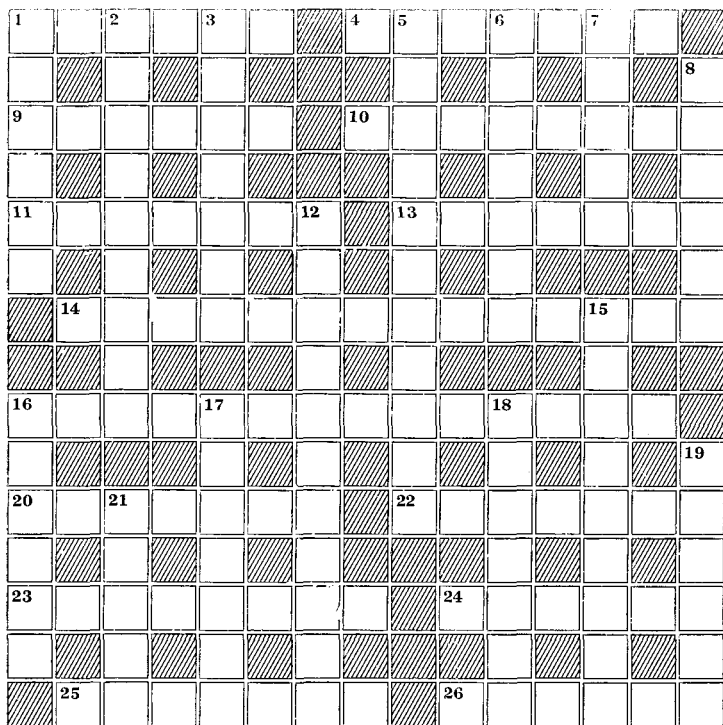
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Harlequin Crossword Puzzle

NO. 10.

COMPILED BY P. G. DAWSON,
(General Physics)

A Book Token is offered for the first correct solution opened by the Editor. Closing date to be announced in the A.E.R.E. News.

ACROSS

- 1 Careless about the girl (6)
- 4 A liquorice tea with no cereal? Just a fraction (7)
- 9 Frank sounds sweet (6)
- 10 Emphasises the lack of tune in choir-girls (6)
- 11 Wise old king and little donkey (7)
- 13 Musically free, it's cool in arrangement (7)
- 14 Sin can't mend the disordered sense of lost glamour (14)
- 16 Harnessed by Watts, and carved by Watts (8,6)

- 3 "Fair — — — frowned not on his humble birth." Gray (7)
- 5 People of a looser state who had no mornings (5,6)
- 6 Not quite the oddest inquirer (7)
- 7 Has a nest, but is in a houseless condition (5)
- 8 May attend a lady, a sovereign or a prisoner (6)
- 12 Tyrannical sayings to set before a broken liar (11)
- 15 Fired by gun-layers? (9)
- 16 Integrity is the best form of insurance (6)
- 17 Raids the home of zebras (7)
- 18 Augustus in reverse found material in his capital (7)
- 19 Used to display or conceal (7)
- 21 Economic conclusion—a frost. It does'nt pay (5)

- 20 Peaceful place that saw carnage beginning in the end of a battle (7)
- 22 This verse form is pi, chaps (7)
- 23 Such conditions, between 100 & 99, put a Southern Indian on his back (8)
- 24 Evil-containing grating (6)
- 25 Marine product of the course as altered (7)
- 26 Stone walls did not make this for Lovelace (6)

DOWN

- 1 Remember to do up your shoe-tie from left to right (6)
- 2 They hope to be in Coventry in parts, lying together (9)

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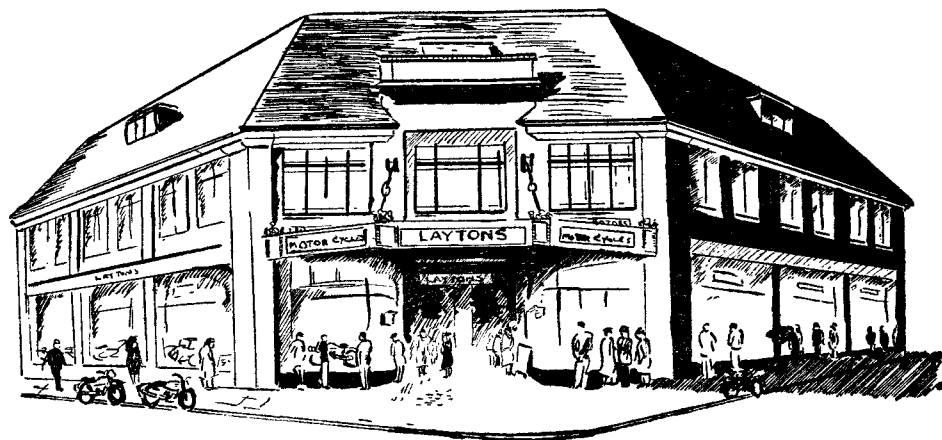
A. G. Montgomery

What service shall we render thee
O Motherland we love
What gift of hand, or heart or brain
May our devotions prove ?
The coming age invokes our aid
Thy voice of old inspires
Shall we, thy sons and daughters be
Less worthy than our sires.

The service of the Commonwealth
Is not in arms alone ;
A nobler chivalry shall rise
Than war has ever known ;
Glad rivalry in arts of peace,
True ministries of life
Shall supersede the arts of war
And calm our feverish strife.

Lord of the nations, far and near
Send forth Thy quickening breath
Equip us for the tasks of life
Save us from deeds of death :
Enlist in thy ranks to fight
Fair freedom's holy war
Whose battle-cry is Brotherhood
Far-flung from shore to shore.

Ernest Dodgshun



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