

THE EAGLE

A Magazine

SUPPORTED BY MEMBERS OF

St John's College



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VOLUME LII, Nos. 231-232

PRINTED AT THE UNIVERSITY PRESS
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MCMXLVII

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The next number shortly to be published will cover the academic year 1946/47. Contributions for the number following this should be sent to the Editors of *The Eagle*, c/o The College Office, St John's College.

The Editors will welcome assistance in making the Chronicle as complete a record as possible of the careers of members of the College.



The Studio; London

Yale carved in stone by Alfred F. Hardiman, R.A., for the entrance gateway to the Fore Court of the College.



A SONG OF THE DIVINE NAMES

How shall we call Thee, when to Thee we raise
A bitter cry for some short space of ease,
A little stillness in the roar of Things,
A little rest in restless nights and days?
Omnipotent? Eternal? King of Kings?
Nay; but we call by greater Names than these:
Cessatio; Silentium; Quies.

O Secret Silence, Fount of Very Peace,
We faint and stumble on our troubled ways;
In blinded darkness, Archetype of Light,
We cry for Sight to Him alone who sees;
We dwell where Wrong forever wars on Right;
O take us where Still Peace eternal stays,
Cessatio, Silentium, Quies.

Stillness and Beauty, Way through all the maze,
Here seek we rest where rest forever flees,
Rebuild these tossing fragments in the Whole,
Reveil the warring darkness in Thy rays.
Belov'd and Lover, Origin and Goal,
Of many Names, O Nameless, best are these,
Of many Names the sweetest in Thy praise,
Cessatio, Silentium, Quies.

G. U. Y.

THE COLLEGE DURING THE WAR*

By THE MASTER

THE outbreak of war caught us in the middle of building our new court. Fortunately the fabric was already up and the material assembled; so that the work went slowly forward, and by the end of 1940 the rooms were coming into occupation. The Munich crisis, occurring while the foundations were being laid, had influenced us to construct under the main block a service subway, large enough to be used as an air-raid shelter, and a well-protected strong room, to which the College plate, muniments and treasures from the Library were afterwards moved. Happily the College buildings suffered no damage from enemy attack. Only a single incendiary bomb and a shower of débris from the opposite side of Bridge Street, on the night of 28 July 1942, fell within our precincts. But the escape that time was narrow. College property in London and elsewhere was less fortunate.

The new buildings, named Chapel Court, North Court and Fore-court, on completion proved very useful to the College. As previously arranged, an Initial Training Wing of the R.A.F. took possession of most of the New Court in September 1939; other rooms were in regular use for R.A.M.C. courses of instruction, Army Intelligence Training and Army Educational Courses, and the remainder were never sufficient to accommodate all the members of the College in residence. In this war, unlike the last, University education found a place in the national effort, so that the College, instead of emptying as in 1915-18, had always a large body of undergraduates. For 1941-4 our entry of freshmen was on a pre-war level, and though many men stayed only a year, our total numbers throughout the war were round about 60 per cent. of the normal. As in other colleges, state bursars and cadets of the three Services formed a substantial part of the total. These numbers made possible a real college life, and differentiated the conditions from those of thirty years ago, when continuity was lost, traditions forgotten, and the few freshmen who came into residence often seemed freshmen still when a year had passed.

Posterity may read with surprise how regularly college life functioned, how the society adapted itself from day to day to changing circumstances—to academical and military routine co-existing within its walls, to the departure of staff and servants, to rationing and

* This article and some of the obituaries are reprinted from *The Cambridge Review*. (Ed.)

communal meals, to fuel restrictions, to diminished service in hall and rooms, to the pressure on its accommodation, to the black-out and the peril by night, to the closing of the College and its grounds to the public and the 'civilian pass' required for moving from the Old Courts to the New, even to the silencing of the great bell which had rung since the days of the Hospital. The undergraduate took life as he found it and made it worth while. To his ordinary academical work were added military duties in the S.T.C. and fire-watching at night. Yet some sport was maintained; the L.M.B.C. had always boats on the river and in the Lents of 1943 went Head, and in the same term the football teams won the knock-out competitions in both Rugby and Association; literary and scientific societies still functioned; the Musical Society gave occasional concerts; meetings of many kinds took place as usual in the Old Music Room, and *The Eagle* appeared from time to time to chronicle these events. The organisation of A.R.P. was continually developing. The fire-squad had periods of great efficiency, and their hose practice in the winter of 1942 resulted in a useful sheet of ice in the Backs and the unprecedented spectacle of skating on the lawn in front of the New Court. The pumping engine was housed in a temporary structure by the river, and collaboration with Trinity was facilitated by the opening of a doorway in the boundary wall in Kitchen Lane between the two Colleges. An observation post was established on the Chapel Tower, manned by ourselves and Trinity, with some help from the town, and the observers sheltered in a little hut erected on the top.

Fellows and College officers began to leave us in September 1939, and at one time as many as thirty were absent on various forms of war service—in the armed Forces, in research establishments and in Government offices—not to mention others whose work was done in Cambridge. Those who remained—teachers, administrators and college servants—carried a heavy burden. But this was the common experience, and where all were overworked together, we must not distinguish. Nor is it possible to particularise the external activities of members of the College, associated as so many of them were with the scientific developments of the time, but we applauded the Prime Minister's choice in 1942 of a Secretary of State for War, and we liked to hear a familiar Johnian voice nightly upon the news. The vacant places at the High Table were frequently occupied by visitors whom the war brought to Cambridge, and the contacts made in this way with the Services, with Government departments, and with the Dominions and allied countries, for which peace gives few opportunities, were much appreciated. In particular, the Dominion and American soldiers, attending the fortnightly courses provided for them, of whom two or three always joined our High Table, were

a welcome addition to the society. So also was a Chinese Professor who spent a year with us. Other opportunities for entertainment were limited, as the staff fell in numbers and rationing restrictions grew more severe. Yet the Steward's department never failed to carry its almost insupportable burden, and it was good to see the Combination Room filled from time to time—for a dinner to the Politico-Military course, or a lunch to Polish officers, or an At Home for the Dominion and American forces, or for teachers of the University of London, and for some occasions of our own, for we did not give up our Commemoration or Foundation Dinner, though entertainments found new levels of simplicity. Though officially closed to the public, the College has perhaps never seen more visitors. All through the war we welcomed parties of British and Allied troops making the tour of Cambridge, and our visitors, whether seeing round the College or temporarily resident with us, always thirsted for some account of College history and buildings, in the giving of which in concentrated form many College officers by long experience acquired an authority and facility which no doubt surprised themselves as much as it delighted their audiences.

What lasting results on college life these experiences will leave we cannot foresee. Perhaps simpler living. And what impression the many visitors who temporarily shared our life or traversed our courts acquired of the nature of a college it would be hard to say, but by us the wider contacts will not quickly be forgotten. A precedent, too, was made when, on the morning of 21 February 1943, the University Sermon was preached in the College Chapel, as the Vice-Chancellor was engaged in the Red Army celebrations later in that day. And, on another plane, the paddock fence, surrendered in the collection of iron railings, has probably gone for good, now that we have enjoyed the more spacious appearance of the Backs. Some sounds and scenes will linger in the memory—the alerts in Hall; undergraduates triumphantly perambulating the College roofs; long files of airmen pelting through the screens; a vast plan of cliff and down constructed on the floor of the Combination Room (which surely never fulfilled a more unexpected purpose—we were never officially told what it was); the magnificent crops of onions and potatoes which served for lawns in the new Chapel Court; torches glimmering in the darkness as men negotiated the changing levels of the courts; the sentry's challenge on the 'Bridge of Sighs'; the V I roaring over Cambridge; men carrying their buckets of coal to their rooms; the Combination Room filling with undergraduates and Fellows to toast the return of peace. But through all the changing circumstances the life of the college went on, and war experience drives home the happy moral—*plus ça change, plus c'est la même chose.*

The lapse of six years has seen great changes in the personnel of our body—not all due to the war. Fortunately we were able to continue the election of Research Fellows from year to year by relaxing the condition of a dissertation and can now welcome, with the returning tide of men, a large accession of younger members to our Governing Body.

TO THE COLLEGE

After six war-years in Egypt

DEEP peace is all inherent to a Court
 In College, when the waves of youth recede.
 E'en yester-eve mine ears had been the sport
 Of Egypt's voices strident; I had need
 Escape from arid air where, tightly keyed,
 Nerve-strings still tauten in the blazing sun
 And make of work a weariness indeed.
 But thence a carpet swift its course had run,
 By modern magic sped; my journey done
 Before that sun could make its daily round.
 With scent of rain-wet grass new life's begun
 In a fair land, where rest at last is found,
 And where the heart and hand, the brain and eye,
 Feel fresh resolved life's passage to defy.

L. B.

July, 1945

THE COMMEMORATION SERMON

By the RT. REV. A. J. CAMPBELL, M.A., D.D.

Moderator of the General Assembly of the Church of Scotland

SUNDAY, 5 May 1946

Isa. xlvi. 9. Remember the former things of old: for I am God, and there is none else.

AN appropriate text for a Commemoration. We come together to-day in order to remember thankfully before God the beginnings of this famous college to which we belong. We think of its long history, of its expanding life, of its great potentialities, of the rich contribution which it has given to the life of our University, to the work of the Church, to the well-being of this nation and of all mankind. We think of all those elements which make its sons thrill with pride in it and remember it with life-long affection. It is characteristic of this college, as it is characteristic of all our colleges and of all our universities old and new, that, whatever be the motives or thoughts which first brought us hither—and these were often self-regarding and utilitarian—these quickly change as we come under the spell of a venerable Alma Mater; and we find ourselves rejoicing to be merged in a society, a community, a fellowship, a brotherhood—a corporate life of such breadth, splendour and dignity that mere personal ambitions become irrelevant.

We think to-day of the Lady Margaret, our Foundress. She lived at a critical period of European history, when European society was changing as completely as it is changing to-day, and a new order was rapidly taking shape. She saw both the needs of Cambridge and the service which it might be capable of rendering; and she poured out her benefactions, one after the other—from one of which this college has its origin. Her benefactions did not prove sterile, as benefactions often do. They were creative, capable of expansion and development, as we to-day can testify. With her name must always be linked the name of her friend and guide, John Fisher, Chancellor of the University and Bishop of Rochester—a man of learning and wisdom and knowledge of affairs, sensitive to the thought of his time, with a sure grasp of the fundamentals. Without his courage and tenacity, his capacity for handling men and affairs, it might well have happened that, when the Lady Margaret died before her gift had taken full shape, it might have disappeared. And so, on our Commemoration Day, we think of John Fisher, one of the makers of Cambridge and the special glory of St John's.

It would be impossible for me to give, even in broadest outline, any account of those who after this fashion or that have added to the renown or increased the potentialities of our college—of those who have maintained its traditions and those who have broken new ground—of teachers who in one way or another, in ancient learning and scholarship, in philosophy, in mathematics, in science, in history, in theology have widened the bounds of knowledge—of members of our college who have gone forth to give distinguished service in Church and Nation—of men who have influenced permanently the thought and the history of this country—of poets, statesmen, divines, administrators, explorers, missionaries, scholars, doctors, both in this land and in the uttermost parts of the earth—of benefactors who, being good stewards of the treasure with which God entrusted them, have made this or that development possible. Of all these we think to-day, as we remember the former things of old.

We remember, because we ought to remember. I am aware that in these times there is a not uncommon tendency to think that the past does not matter, that it is irrelevant. It is easy to understand how such a tendency can take shape, particularly in times like ours. It is perhaps the contemporary phase of the assertion which each new generation must make after its own fashion—the assertion of its inalienable right to make its own way into the unknown. A living institution will always find new opportunities, new ideas, new methods, new hopes, which make the former things obsolete; and it will find them with great joy. But the more it does that, the more, I think, it will remember—remember the seed from which it has sprung, the truth for which it has stood, or the achievements to which it has attained.

'Remember.' The Bible—and it is worth while to note how that remarkable literature took shape among a people strong in their corporate spirit and tenacious in their memory—the Bible often bids us remember. It tells us also to forget—but the things which we are to forget are our own personal man-made things—our own achievements and our own follies. When it bids us remember, it is speaking of the things which God has done.

'Remember the former things of old: for I am God, and there is none else.' God—God alone—is the source of all excellence: there can be no other source. When we praise famous men, as we ought to do, we acknowledge that what we count praiseworthy in them had its origin in God. If there be in man any virtue, any noble thought, any famous action, it has sprung from something which has its beginning in the Being and Nature of God. Man originates nothing. He can discover—and by his discoveries he can astonish, and often alarm, himself. But what he discovers, though previously unknown

to him and unimagined, is something which is already there—something which had its source in God. Man can discover: he cannot create. He can utilise—but what he utilises has come from God. He can work out and develop—but what he works out and develops springs only from God, from whom comes also the capacity to work out and develop. 'I am God: and there is none else.'

In such a saying there is History. All history is implicit here. History is the record of what man has done—but below the jumbled and uncountable waves of the surface flows the strong tide of God's Sovereignty and Eternal Purpose. The text implies that.

In such a saying there is also a Philosophy—an explanation both of the universe and of the soul of man—bringing to a unity its innumerable varieties. 'In Him', says St Paul, 'all things consist'—all things 'cohere'—find their being, their stability and their relation to one another.

Herein also is implicit the Gospel. The Gospel says that God, who has made all men and all things, has not been content to leave us to dash ourselves to pieces in self-willed violence, or to sink into hopelessness. When St Paul says, 'In Him all things consist', he is thinking of how God has revealed Himself in the Person of Jesus Christ—how God has entered upon the stage of history, has, so to speak, made Himself a part of His own creation in order to bring man into harmony with Himself. God cannot be content that His creation should ruin itself. Man is a free being—able to choose his own course, and responsible for his choice; and how if he choose evil—if with his eyes open and fully understanding what he does, he choose evil, knowing it to be evil? How God has dealt with the difficulty which we have put before Him is shown in the story of Christ. His method is the method of persuasion. His purpose is a redemption purpose. All things have their source in God; and that means that they have also their consummation in God. 'Till we all come... unto a perfect man, to the measure of the stature of the fulness of Christ.'

History and Philosophy and Gospel—and there is here also an Ethic—a Command—a Way of Life. 'I am God: and there is none else.' There is implicit here a moral standard—a guide for personal and social conduct. Such an utterance suggests that all human life—all its duties, interests and relationships—are of concern to God. The moral struggle—we are all in it. It is part of the make-up of human life. We must all take part in it—consciously and of set purpose. There is no spiritual life apart from the moral struggle—from which we are exempt, no, not for an hour. And therefore every act of remembrance, such as we make to-day—every act of worship—every lifting of the heart towards the unseen—carries with it a call to

dedication—a call to live as faithful stewards of the bountiful gifts of God.

A college like this college with a long and famous history gives that as the best gift which it can give to its *alumni*—the gift without which all its other gifts, great as they are, lose their value—the sense of dedication, of high vocation, of public service, of honourable, strenuous and upright living. And for those difficult and interesting times in which we live, there is no contribution which our college, or any other similar institution, can make greater than to produce men of character, knowledge and dedication. 'I am God, and there is none else. Whatsoever ye do, do all to the glory of God.'

ON THE POSSIBLE BIBLICAL ORIGIN OF A WELL-KNOWN LINE IN *THE HUNTING OF THE SNARK*

THE line in question is the last line of the second quatrain, in which the Bellman announces that what he has said three times is true:

'Just the place for a Snark!' the Bellman cried,
As he landed his crew with care;
Supporting each man on the top of the tide
By a finger entwined in his hair.

'Just the place for a Snark! I have said it twice:
That alone should encourage the crew.
Just the place for a Snark! I have said it thrice:
What I tell you three times is true.'

The biblical parallel I happened to notice first in the Vulgate, Proverbs xxii. 20, 21:

20. Ecce descripsi eam [doctrinam] tripliciter, in cogitationibus et scientia:

21. ut ostenderem tibi firmitatem, et eloquia veritatis....

The Douai version (1610) gives the usual very literal translation of the Vulgate text:

20. Behold I have described it to thee three maner of wayes, in cogitations and knowledge:

21. that I might shew thee the stabilitie, and the wordes of truth....

But the Douai version was never a familiar one in England. The popular Geneva version (1st ed. 1560) comes nearer to the Bellman's saying by introducing the words 'three times':

20. Haue I not written unto thee three times in counsels and knowledge,

21. That I might shewe thee the assurance of the wordes of trueth....

A marginal note to 'three times' gives the interpretation: '*That is, sundrie times.*' Of other sixteenth-century versions, the Bishops' Bible in the rather late edition of 1595 to which I referred reads:

20. Have I not warned thee very oft with counsaile and learning,

21. That I might make thee knowe the trueth....

but gives the alternative reading '*or three times*' in the margin, thus reversing the choice of the Geneva version; while the Great Bible has the same reading in verse 20 but in verse 21 reads: 'That I might shewe thee the truth.' Of all these versions then the Geneva is the nearest and the Bishops' perhaps second.

The Authorised Version of 1611 breaks away completely from all these precedents, evidently adopting a different reading of the Hebrew, and making no mention at all of any *repetition* of warning or advice, description or writing:

20. Haue I not written to thee excellent things in counsailes and knowledge:

21. That I might make thee knowe the certainty of the words of truth....

and the Revised Version hardly alters this, only preferring 'of' to 'in' in the first of the two verses, though mentioning 'in' as an alternative.

Thus no reader of a modern Bible alone would have any memory of or associations with such a phrase as 'Have I not written to thee three times?' But is it not possible that on some occasion the Rev. Charles Lutwidge Dodgson had read these verses of Proverbs in the Geneva, or it may be the Bishops', version; that the notion of threefold repetition had caught his fancy and impressed some imperfect record of the words in his memory; and that this memory was recalled, it may be years later, when he was writing *The Hunting of the Snark*?

G. UDN YULE

THE PALING FENCE

ONCE there was a fence of palings,
alternating gaps and railings.

An Architect had noticed this,
and took his chance, one night, to mis-

Appropriate the gaps and so
to build of them a bungalow.

The fence meanwhile was quite astounded,
each railing stood with nothing round it.

A gruesome and a vulgar vision—
the Senate put the fence in prison.

(The Architect had fled away
to Barcelona or Bombay.)

THE SIGH

A SIGH went dreaming of love and joy,
skating on ice of Night,
To the city wall, where gleaming shone
wall-buildings, snowy white.

The Sigh remembered a maiden fair
and stood with passion glowing:
It melted the night ice under him—
he sank—beyond man's knowing.

From Christian Morgenstern's *Alle Galgenlieder* by A. J. C. W.

JOHNIANA

I

We had much pleasant talk before going to bed. Both the Principal [of the University of Glasgow] and his wife are evidently inclined towards Prohibition, and the policies that point in that direction. But they were not so obdurate in their opinions as to refuse me the solace of some excellent brown sherry, which came from St John's, Cambridge, of which society Sir Donald Macalister is still a Fellow.

Bishop Hensley Henson's private journal, 24 October 1920 (Herbert Hensley Henson, *Retrospect of an Unimportant Life*, vol. II, 1943, p. 60).

II

London, Saturday, 9 October [1920].

Yesterday afternoon I went down to Cambridge, to stay a night with Rivers and see Richard's induction into Clare College. . . .

I dined with Rivers in St John's hall. A 'short' dinner, too short, and professors etc. rather dull. Too cautious; too pedagogic. Another professor there, agriculture. I forget his name. His chief interest seemed to be the history of the barley plant. Went on with him to Rivers's, where there was another psychologist (psycho-analyst) who had just been on a visit to Freud. . . . I went to bed hungry, and woke up so hungry at 3.15 that at 5 I got up and searched for cake and found it. Three undergrads to breakfast, besides Richard. But among them only Davison (poet) talked. He *did* talk well. Rivers's delightful personality! Richard's work seems to be arranged so that he has no afternoons for sport. Laboratory every afternoon, including Saturday. Cambridge was most beautiful. We went into King's College Chapel and heard choir practice.

The Journals of Arnold Bennett, vol. II, 1911-1921. Edited by Newman Flower. London [1932].

Rivers was W. H. R. Rivers, the anthropologist and psychologist, Fellow from 1902 till his death in 1922. Richard was Bennett's nephew, Davison presumably E. L. Davison, B.A. from St John's, 1921.

III

1687

1 June. My husband had a kind letter from the Bishop of Ely in order to carry Sam to Cambridge to St John's College, to be admitted Scholar. God bless all our proceedings in this affair, so it may be for his Glory, and our Child's good.

The beginning of June I went to London with my Husband and Sam, they went to Cambridge where Sam was admitted Scholar at St John's College, where may he do virtuously, and bring a great deal of honour to the name of God, and comfort to himself and his Relations.

13 October. My eldest Son Samuel is gone this day towards Cambridge to be a Scholar at St John's College, God of his mercy grant he may do worthily there, and bring great honour to his Holy Name, and comfort to his Parents. And keep him in all ways from sin, and danger and the infection of evil company. Make him an example of sobriety and godliness to all his Companions, and let thy Grace be present and follow him all his days.

1688

20 May. We had a letter from Sam which tells us he is not very well, and that his mind was much towards home. God restore him to health again (as he prays in his letter), keep us all in his true fear and love, and give him a cheerful spirit and make him content and pleased to stay till it is convenient for him to come home, and let us see one another with joy and comfort again.

August. My son Samuel came home from Cambridge to see us. I hope bettered in his learning, and not drawn away from sobriety and honesty. God keep him in his fear and love while at home, that when he returns to his College again he may embrace all opportunities of improving himself in all things that are praiseworthy.

22 October. This day my dear Sam is gone again toward Cambridge. I bless God I hear my Son safe at Cambridge.

14 December. This evening we had a Bill from poor Sam's Tutor in which he tells us he has a dangerous cut in one of his Fingers which makes them fear a Gangrene, which God of his mercy prevent. He is at a great distance from us and all his relations, but Oh, my dear Lord, do thou supply all our love and care in taking him into thy special protection. . . . I give him up into thy hands, do with him as thou seest best, and give us all patience to bear what thou layest on us.

18 December. We had a letter from Mr Brown which gives us great hopes my poor Sam's finger is in a good way of curing, which God of his mercy grant.

1689

20 *January*. We heard by a letter from Cousin John that Sam's finger was near well, and that he hoped he should not lose the use of it which is a great comfort to us.

31 *January*. I had a letter from Sam which tells me his finger is quite healed, but altogether useless. Blessed be our great God who has spared his life, and that his finger did not need to be cut off.

2 *July*. My Son Samuel came home safe from Cambridge.

27 *August*. This morning my Son Samuel had a dangerous fall from his Horse, which much frightened us, he being like to faint with it; but now this Evening is pretty well again.

21 *October*. Sam is gone this day with his Uncle Nevill toward London in order to return to Cambridge, whither God carry him.

From Mary Woodforde's Booke printed in *Woodforde Papers and Diaries*, edited by Dorothy Heighes Woodforde. London: Peter Davies, 1932.

Mary Woodforde, born Norton of Binstead, Hampshire, became the second wife of Samuel Woodforde, D.D., prebendary of Chichester and Winchester and author of poetical paraphrases of the Psalms and Canticles, in 1667, and died in 1730. Her 'Booke' contains entries at various dates between November 1684 and June 1690. Samuel Woodford, born at 'Woordlam' (Worldham), Hampshire, school Winchester, was admitted pensioner (and not, as his mother says, scholar) on 13 June 1687, aged 18, tutor and surety Mr Brown (*Admissions*, vol. I, p. 111).

BOOK REVIEW

The Statistical Study of Literary Vocabulary. By G. UDNY YULE. Cambridge University Press. 1944. Pp. 306. 25s.

Simple statistical methods have long been used in discussions of literary questions. For instance, the date of a Shakespeare play may be decided, within limits, by the frequency of rhymed couplets; and in a question of authorship it is relevant to examine the disputed work for peculiarities of style or choice of words associated with the author in question. The latter method, as Mr Yule points out, is dangerous, because the peculiarities are usually rare even in undisputed works by the author, and he might accidentally omit them in a single work, and another author might accidentally introduce them in one work even if he is not in the habit of doing so. With proper safeguards it can be used. Yule proceeds by another method, the study of the author's whole vocabulary and of the frequency with which he uses the words in it. The immediate problem was that of the authorship of the *Imitatio Christi*. This is usually attributed to Thomas à Kempis, but several other authors have been suggested, especially Gerson. Yule forms samples of approximately equal numbers of occurrences of nouns from the *Imitatio*, from known works of à Kempis, and known theological works of Gerson. In each list he classifies the nouns according to their frequency of occurrence in his sample. Naturally some nouns are used very often; *deus* stands far apart from others in these theological works. The mean number of occurrences over all nouns used may be only four or five, but some particular nouns may be used hundreds of times. A most striking feature is that about 40 per cent. of the nouns in each case occur only once, and the distribution is very similar to what Yule and others have found in discussing factory accidents. There is one special complication: whereas in a factory one knows how many hands had no accidents at all, one does not know how many nouns the author knew but did not happen to use in the particular work. The 'spread' of the distribution, in relation to the mean, is found to be very characteristic of the author. There is some difficulty in describing it quantitatively in a way that will make it possible to compare samples of different sizes, but Yule overcomes this difficulty and that of the unrecorded nouns by the choice of a certain function of the first and second sonnets, which he calls K. K is large for an author with a tendency to use a few words with great frequency and small for one that uses his stock more uniformly. The result of this comparison, amply confirmed by many others, is that it is out of the question that the *Imitatio* can have been written by

Gerson, but that there is nothing against its being due to Thomas à Kempis.

The method is applicable to any class of words used in the works discussed; Yule applies it to several selected classes of nouns, such as Latin nouns not found in the Vulgate, and non-classical nouns, and derives interesting results about the kinds of Latin used by his subjects. He also makes fruitful comparison between Macaulay and Bunyan, who differ in much the same way as Gerson and à Kempis. There is no question here of disputed authorship! But it was found incidentally that more nouns beginning with A, E, I were used by Macaulay, more with B and W by Bunyan. This led to a search for an explanation; both authors, especially Macaulay, used more words with Romance roots than Teutonic roots, but those used most often were mainly Teutonic. The difference, it was found, could be traced to the prevalence in Macaulay of Romance words with well-known prefixes. The result might be expected, from what one knew of the authors; but it now has a quantitative expression. Further, the introduction of a new word into English is usually taken from its first occurrence. Yule's method will indicate also how rapidly types of words came to be adopted into general use; when, in fact, their occurrences were 'not as single spies, but in battalions'.

There is some difficulty in establishing standards of significance for the comparisons, especially for authors with a habit of repeating a single word many times for emphasis. So far the most useful method appears to be by comparison of different works of the same author, but we may expect further developments.

The book shows how statistical methods can be used both for questions of authorship and for the wider problem of the development of language. In future Faculties of English cannot afford to neglect them.

H. J.

COLLEGE CHRONICLE

THE ADAMS SOCIETY

1944-45

THE last paper of the Easter Term 1944 was given on 26 April by the retiring President, D. R. Cox. His subject was 'Infinite Numbers'.

MICHAELMAS TERM, 1944

A preliminary business meeting was held on 13 October, when officers for the year 1944-5 were elected. *President*: J. R. MANNING. *Vice-President*: R. C. TOMLINSON. *Secretary*: L. JUNG. *Minutes Secretary*: A. H. COCKAYNE. *Treasurer*: D. C. SHAW.

The 182nd meeting of the society was held on 7 November when Dr C. A. B. Smith gave a very interesting lecture on 'Spine' (' ψ ' inverted), illustrated by beautifully drawn diagrams.

LENT TERM, 1945

On 6 February Mr Haymann succeeded in explaining some Topology to the Society. He defined the simple arc and continuous mapping, dealt with metric spaces and ended by giving a short sketch of the proof of Jordan's Theorem.

The next meeting was held on 13 February when Mr Tutte (to quote his own words) initiated us into the mystery of 'Squaring the Square'. During the course of a most enjoyable lecture he showed us how many difficult results can be deduced from properties of electric circuits.

There was a large audience on 27 February to hear Dr Powell's talk on 'Examinations'. Dr Powell dealt with all examinations in Mathematics from School Certificate to Tripos II. He strongly criticised the latter, suggesting that there should be six papers—three on Pure Maths, three on Theoretical Physics—and that a candidate should be free to take any five of these.

On 14 March, at a committee meeting held jointly with the Natural Science Club, it was agreed to make certain amendments to the constitution of the Adams Society, with regard to the affiliation of members of the Natural Science Club. This was to be in return for similar amendments to their constitution.

EASTER TERM, 1945

At a business meeting held on 30 April the amendments mentioned above were carried unanimously.

The last meeting of the year was also a business meeting. It took place on 25 May and officers for 1945-6 were elected.

1945-46

President: A. R. THATCHER. *Vice-President:* J. R. MANNING.

Hon. Secretary: D. G. BAYLY. *Acting Treasurer:* A. R. THATCHER.

The following meetings were held:

189. 30 October. 'The Geometry of Numbers.' By Prof. L. J. Mordell.

190. 5 February. 'The existence of tangents at points of a rectifiable curve.' By Mr Besicovitch.

191. 12 February. 'Dotage and Deism.' By Dr S. Lilley.

192. 26 February. 'The Dynamics of Electrons in Valves.' By Mr K. J. Le Couteur.

193. 12 March. 'Shock Waves.' By Dr L. Howarth.

Throughout this period the numbers of the Society, although increasing, remained at only about a third of the average pre-war membership. However, the Adams was one of the three mathematical societies which survived the war without interruption and its financial position has improved steadily, so that with the return of more normal numbers of mathematicians the prospect is encouraging.

DEBATING SOCIETY

IN the autumn of 1945 some enthusiasts decided to revive the Debating Society. No one doubted that the Society had, historically speaking, existed, but since no records could be found, these enthusiasts plunged into the formalities of founding a new society. A constitution was drawn up, and after struggling through the clauses beginning 'The Society shall . . .', 'The Officials shall . . .' and so on, a committee consisting of the following members of the college were elected:

President: P. A. JEWELL. *Hon. Treasurer:* I. A. DICHMONT. *Hon. Secretary:* M. PECK. *4th Year Representative:* B. M. W. TRAPNELL. *2nd Year Representative:* A. OSBORNE.

The two debates of the Michaelmas Term were both serious in character. 'That this House considers that Jewish Immigration into Palestine should be allowed' and that 'This House considers that specialised education of youth is a menace' were debated with the deference that they deserved, but something in a lighter vein was indicated in the Easter Term. The Society began with a Debates Social to which Homerton was invited. Its success was quite evident. Seventeen pounds were raised by an auction for I.S.S. and the balloon and hat debates proved highly entertaining. Considerably encouraged, the committee continued to experiment with its meetings. Both Emmanuel and Trinity Debating Societies sent speakers to joint debates and two of the Fellows, Dr Davidson and Dr Lilley, contested the motion that 'The study of Science is more benefit to mankind than the study of the Arts'.

One of the most successful meetings was that at which the Master spoke on 'Some Aspects of College Life', when we learnt some of the more intimate aspects of the history of St John's, and the lively discussion proved that Johnians were very keen to know more about their college.

The last debate, 'That this House believes in Ghosts', provided some of the best entertainment of all. Although the anticipated appearance of the Hon. Treasurer wrapped in a white sheet did not materialise, it turned out that the house *did* believe in ghosts. Perhaps coming debates will reveal even greater credulity amongst the present undergraduate generation.

P. A. J.

THE FINAR SOCIETY

AN outsider writes:

The *Finar Society* had a chequered career, but although membership was never high, many interesting discussions developed from the arranged paper or talk. At least one member valued the talk by Theo Hancock on that much-discussed topic, 'Picasso', and came away convinced that most of the nonsense which was written in newspapers, from *The Times* correspondence columns downwards, on this subject, was due to an inability to see Picasso as a development and a desire to treat him as freak.

Another evening which was most successful was a talk about the Barnes Foundation in America by one of the very few Englishmen who has managed to enter this Citizen Kane-like stronghold. The description of the enormous number of Renoirs, Matisses, Gauguins, as well as the profusion of Old Masters made many of us long to go there.

The Society closed down at the end of the year. Rumours of an 'Extraordinary Meeting' to be called this autumn so that the Treasurer can collect enough subscriptions to balance his alleged 16s. loss, and then announce the termination of the Society, have been so widespread that it has been felt that insufficient members would appear. The Treasurer is embittered, but ex-members assure him that the experience he has gained may save him thousands when he later plunges into Big Business.

The *Picture Loan Society*, having been blessed and assisted financially by the J.C.R. Committee and J.B., has had encouraging success this year. Owing to difficulties due to the war, only a limited number of pictures are available to undergraduates to borrow for a term at extremely low cost, but already College members appear to be becoming more 'picture-conscious', and, with more money, the scheme may well develop considerably. One can hardly imagine a better way of donating a small sum to the advantage of the college than by giving the money for a picture, or a picture itself, which, with the donor's name on the back, can be used by succeeding generations to adorn the rooms of his college.

R. G. S.

THE HISTORICAL SOCIETY, 1945-46

Chairman: PROFESSOR PREVITÉ-ORTON, M.A. *Secretary:* M. PYBUS.

Treasurer: A. H. BRIND.

DURING the war years, the History Society suffered an eclipse, owing to the small number of undergraduates permitted to read that subject. In October 1945, it was decided, in view of the substantial increase in the ranks of historians, to attempt to reconstitute the Society after its temporary extinction. Although the number of members is small, the papers read and the standard of discussion ensuing have been of high quality.

Professor Dexter-Perkins addressed the Society on the 'English and American characters in the light of history', an occasion made memorable by the very frank examination of national aims and motives which followed.

The high-light of the year was, however, the late Dr Coulton's paper entitled 'A challenge to Mediaevalists'. This was given in an open meeting in the Old Music Room, which drew an audience estimated at 120, the very maximum the room could hold. This did not include an overflow in the passage, nor the very large number who had to be turned away.

The late Professor Z. N. Brooke, whom we count as one of our most distinguished former members, spoke to the Society on 'The organisation of the English Church in the twelfth century'. This paper was a very real contribution to learning, the greater part of it, alas, unrecorded and unpublished.

The Society looks forward to an even more successful year, now that the returned ex-service historian is up in so great numbers, and wishes to thank both its speakers and those dons whose hospitality made so much possible and enjoyable.

M. P.

THE MEDICAL SOCIETY

1944-45

Patron: SIR WALTER LANGDON-BROWN, M.A., M.D., F.R.C.P. *Undergraduate Vice-President:* I. W. BROOMHEAD. *Secretary:* E. K. WESTLAKE. *Treasurer:* G. P. BLANSHARD. *Committee:* F. R. RYLE, M. J. HUNTER, J. B. HOWELLS.

At the beginning of this year, the Society was honoured by the acceptance of their invitation to Sir Walter Langdon-Brown, Emeritus Professor of Physic, to become its Patron. Mr S. J. Bailey and Dr D. V. Davies, Fellows of the College, and Mr Peter Frazer, of the Papworth Tuberculosis Settlement, were elected Vice-Presidents.

In the Long Vacation Term, the Society spent an interesting afternoon at the University Animal Research Station where they were shown round by Mr Walton. The main features shown us were the experiments on pig and rabbit nutrition, the stock of horses kept for extraction of serum, and the work on artificial insemination. It was clear that the station is efficiently run on modern and scientific lines, and the Society's thanks are due to Mr Walton and his colleagues for their kindness.

At the first meeting of the Michaelmas Term, a paper was read on 'Some Problems of Neo-Natal Diarrhoea' by Dr E. Gale of the Biochemistry Department. He dealt with his subject from the standpoint of the research worker, and the Society is duly grateful to Dr Gale for this insight into methods of study which otherwise would have fallen outside our sphere. Sir Albert Howard, C.I.E., gave the next lecture, the subject being 'A New Policy for Medicine'. He began by describing how he had come, from the realms of Botany and Agriculture, to take an interest in matters medical, and continued by discussing the superior value of foodstuffs grown on land fertilised with compost to that of those produced on artificially manured ground. Sir Albert felt that, in the future, the Health Service should be divided into two sections: (a) preventive medicine in its widest sense, and (b) a department for disease 'casualties'. After describing his own work, Sir Albert Howard referred to the Pioneer Health Centre at Peckham, and the various schools and institutions in this country and in Ireland which are, at the moment, testing his ideas in practice.

Dr Baldwin, of the Biochemistry Department, gave a lecture on 'Chemotherapy' in which he explained that this term had lost its old significance of the use of chemical compounds in treatment of disease and is now applied only to such compounds as the sulpho-

amides. He drew attention to the fact that the sulphonamides act as competitive inhibitors to the bacterial enzyme system which utilises para-amino-benzoic acid which is a 'vitamin' for the streptococci. If the growth requirements of bacteria were fully known, there would be a basis for the development of a rational science of chemotherapy.

A more informal talk by Dr Green of the Anatomy School dealt with his experiences of voluntary and municipal hospitals. In each he found room for much improvement. In the municipal variety the superintendent could stop publication of research carried out by any of his staff, in some cottage hospitals the maternal mortality rate was far too high, whilst voluntary hospitals often lacked good team work and the Honoraries were tempted to impress students, so that, after qualification, they would send patients to them. Another anatomist, Dr Edwards, spoke to us of the American system of medical education which, as a Rockefeller scholar, he had just experienced. His greatest criticism of the system—and it is one which can justly be applied to the less enlightened schools of this country—is that it fills students with knowledge without understanding.

The climax of this year's programme was undoubtedly the meeting in the Lent Term at which our patron, Sir Walter Langdon-Brown, read a paper on 'Three Johnian Pioneers in Medicine'. He dealt first with William Gilbert who entered the college in 1558 and was chiefly responsible for the importation from Italy of the idea of the experimental method. Gilbert laid down that the basis of science was the experiment, and although Bacon usually gets the credit for most early experimental work, he, in fact, performed but one experiment, Gilbert being responsible for much of the early work in medicine and in physics. William Heberden, of whom Sir Walter spoke next, was 'a breath of fresh air in the science of Toxicology'. He grew many medicinal herbs in the college Fellows' Garden and also compiled a pharmacopoeia. He was a great sceptic and debunked much nonsense previously believed about poisons. G. R. Murray was the pioneer in the field of endocrinology and laid the foundations of this science with his work on Myxoedema which was previously thought due to the failure of the thyroid to excrete from the body a toxic substance. The Society is extremely grateful to Professor Langdon-Brown for his kindness in giving us so interesting an evening.

The social side of the Society's activities has also flourished this year: we had a party in the Old Music Room at Christmas time, and an informal evening at which Dr G. J. Romanes was our guest. Both these events were most successful and our thanks are due to their organisers.

J. B. H.

1945-46

During this year the Society has been thirty members strong. To start activities for the year a party was given in J. N. Gibson's rooms, at which the freshmen and old members became acquainted. After this, the Society settled down to more serious occupations, and lectures were given on a variety of subjects, for example, 'The Psychology of Children' and 'Climbing Everest'.

On 28 November Dr McFadyean read a paper entitled 'The Death of Edwin Bartlett', which was the result of his investigations into the medical evidence produced at a murder trial. At the end of the talk most of the audience seemed convinced that Edwin Bartlett had not died from chloroform poisoning, but had been murdered by his wife, who had hypnotised him by a method much in use on the Continent, and administered chloridine.

On 3 December the Society visited the Tuberculosis Clinic on Castle Hill, where Dr Paton Philip talked on 'The Evolution of Tuberculosis in Childhood and Adult Life'. This meeting was outstanding for the energy and enthusiasm of the speaker, and for the fact that it lasted for $3\frac{1}{4}$ hours, the party returning to college at 11.45 p.m.

On 13 February Dr Bannister of the Psychology Department spoke on 'Child Guidance', and stressed the point that this mostly consisted of treating parents.

On 20 February E. K. Westlake, the Undergraduate Vice-President, spoke on Psycho-Somatic Medicine.

On 28 February Dr Howard Somervell spoke on his medical and mountaineering experiences in India. He described the journey to Mount Everest and the attempted climb, and then went on to talk about his work as a surgeon at Neyoor Hospital in Southern India.

Following the usual practice of the Society, no meetings were held in the Easter Term, but in the Long Vacation Term a dinner was given, at which Professor H. A. Harris, Dr G. C. L. Bertram, Mr D. V. Davies, and a Danish Medical Student were present as guests.

S. K. YOUNG (*Hon. Sec.*)

THE MUSICAL SOCIETY

1943-46

ALTHOUGH this is the first account of the Musical Society's activities since June 1943, it must not be thought that the Society ever ceased to exist. Despite the drop in the number of freshmen admitted during the war, our numbers never fell below thirty, and in the last year rose to over fifty.

In the Michaelmas Term, 1943, two concerts were given by members, one by freshmen, and at the beginning of the Lent Term, 1944, we heard a recital by Winifred Roberts, violin, and Anita Mansell, piano, both of the Royal College of Music. It is interesting to note that now at the time of writing Miss Roberts has gained a reputation as a player of great merit, an opinion we strongly held three years ago. The May Concert was held on 5 June. (The programmes of this and the following May Concerts are printed at the end of this summary of the Society's activities.)

The year 1944-5 opened with a concert by members, which included music for the recorder and clavichord, songs, and instrumental items. A new venture was undertaken at this time by H. Crosthwaite and G. H. Briggs, which took the form of a small orchestra. It consisted of eighteen players or so, and was formed with the idea of giving members of the society and of other colleges an opportunity of playing together for pleasure. Although it disbanded at the end of the year, we succeeded, to our own satisfaction, in playing a number of works, including the 'Fantasia on Greensleeves' by Vaughan Williams, Symphony No. 4 by Boyce, a suite by Purcell, 'The Rival Sisters', and some sixteenth-century string pieces. The Combination Room Concert took place on 2 December.

During this year we heard a recital by Barbara Whitehead, which was very much enjoyed. On 21 May, with the help of His Excellency the French Ambassador and M. Arahamian of the L.P.O., a 'Concert Spirituel' was given in the Chapel (by kind permission of the Master and the Fellows) by Bernard Garoty, organist of Saint Louis des Invalides, Paris, and Gerald Souzay, baritone. The programme consisted of French music from Couperin to Dupré. The singing and playing were both outstanding, and this was one of the foremost musical events in Cambridge during the past three years. We concluded the year with the May Concert on 4 June.

In November 1945 Joan and Valerie Trimble returned to give a recital of two-piano music which delighted the large number of people present. The second concert of that term was given by

members, a programme of early music, including a Handel oboe and harpsichord sonata, Byrd's Three Part Mass and a suite for oboe, violin recorder, 'cello, and continuo, arranged from Buonocini. This concert was followed some days later by a recital of music for 'cello and organ, by Gethyn Wykeham-George and Boris Ord. The playing was impeccable, and the programme, which included a voluntary for double organ, by Purcell, and an unaccompanied Bach suite, for 'cello, finished very appropriately with Dr Howells's Rhapsody No. 3.

It was at the end of this term that Dr Howells gave up his appointment as Deputy Organist and Director of Music. In 1941, when the College faced a complete breakdown of its musical life, Dr Howells agreed to act as organist until Mr Orr should return. He was untiring in his efforts on behalf of the Musical Society, which he helped in every way, both by giving advice or criticism, and, when we were unable to provide a concert, by introducing some of his friends, who were very welcome, and whom we hope will be frequent visitors. To many of us he was a good friend and often helped us to solve our problems over the fire in his rooms in the early hours of the morning. His connection, too, with the Royal College of Music has resulted in a friendship between our two colleges which we hope will continue.

On the last day of the term, 8 December, a Carol Service was held in the Chapel. Dr Darke was at the organ, and the choir and orchestra were conducted by Dr Howells. In January, Mr Orr was released from the R.A.F., and we celebrated his return by a concert given in the Music Room, in which a number of members returned from the Forces took part. On 3 March, Dr Howells returned for a visit, bringing Amaryllis Fleming ('cello), and together they gave a recital to about seventy members and their friends. In the first week of the Easter Term Mr Orr invited Robert Rowell to give a song recital. This was well attended and the programme well chosen. Our thanks are due both to Mr Rowell and Mr Orr, who accompanied him. A two-piano recital by Mr Thistlethwaite and Robert Marchant, followed by a general meeting to regularise the committee's position, which had been somewhat unconstitutional during the war, took place in the first week of June, and a sub-committee was set up to draw up a new constitution, which was later approved by the society. The May Concert, which was of a very high standard, was held in the Hall on 17 June.

Programmes

CONCERT IN THE COMBINATION ROOM

MONDAY, 5 June 1944

- | | | |
|-----------------------------------|---|------------------------------|
| 1. SYMPHONY IN C | | <i>Dittersdorf</i> |
| | THE ORCHESTRA (<i>Leader MRS ALLEN</i>) | |
| 2. TWO-PART SONG | 'Sound the Trumpet' | <i>Purcell</i> |
| | MESSRS SHARP AND GIBBS | |
| 3. VARIATION ON A THEME OF MOZART | | <i>Beethoven</i> |
| | GETHYN WYKEHAM-GEORGE (<i>violoncello</i>) VALERIE TRIMBLE (<i>piano</i>) | |
| 4. CONCERTO IN C FOR TWO PIANOS | | <i>Bach</i> |
| | JOAN AND VALERIE TRIMBLE AND THE ORCHESTRA | |
| <i>INTERVAL</i> | | |
| 5. MUSIC FOR TWO PIANOS | Lieberslied | <i>Kreisler-Joan Trimble</i> |
| | Popular song | <i>Walton</i> |
| | JOAN AND VALERIE TRIMBLE | |
| 6. VIOLONCELLO SOLOS | Rondo | <i>Boccherini</i> |
| | Serenade | <i>Borodine</i> |
| | GETHYN WYKEHAM-GEORGE | |
| 7. TWO-PART SONG | 'Let the fifes and the clarions sound' | <i>Purcell</i> |
| | MESSRS SHARP AND GIBBS | |
| 8. RONDO FOR TWO PIANOS | | <i>Smetana</i> |
| | VALERIE TRIMBLE AND THE PRESIDENT
JOAN TRIMBLE AND DR HOWELLS | |

CONCERT IN THE COMBINATION ROOM

2 December 1944

- | | | |
|--|--|---------------------|
| 1. QUARTET IN G MINOR | | <i>Mozart</i> |
| | MRS JOHN ALLEN (<i>violin</i>) MISS JEAN ROBSON (<i>viola</i>)
MRS GRATY (<i>violoncello</i>) DR HOWELLS (<i>piano</i>) | |
| 2. SONATA FOR OBOE AND PIANO | | <i>Marcello</i> |
| | MR JOHN WOLFE (<i>oboe</i>) DR HOWELLS (<i>piano</i>) | |
| <i>INTERVAL</i> | | |
| 3. MICHELANGELO SONNETS (<i>for tenor voice and piano</i>) | | <i>Britten</i> |
| | MR ELSTER KAY AND MR COLIN SMITH | |
| 4. THREE PIECES FOR OBOE | | <i>Dunhill</i> |
| | MR JOHN WOLFE | |
| 5. DUETS FOR THE PIANO | | <i>Bach</i> |
| | Allegro assai (Brandenburg Concerto, No. 2)
Waltz ('Sleeping Beauty') | <i>Tschaikovsky</i> |
| | MESSRS NEWMAN AND CHARLESWORTH | |

CONCERT IN THE COMBINATION ROOM

MONDAY, 4 June 1945. 9.15 P.M.

1. CONCERTO FOR TWO VIOLINS AND ORCHESTRA *Bach*
Vivace—Largo—Allegro
Soloists: ELFREDA ALLEN, ERIKA BACH
2. PART-SONGS *E. J. Moeran*
(a) Under the Greenwood Tree
(b) Spring, the Sweet Spring
3. PIANO SOLO *Bach*
French Suite in G
M. F. H. NEWMAN

INTERVAL

4. PIANO DUETS
(a) Slavonic Dance *Dvořák*
(b) Valse from 'The Sleeping Princess' *Tschaikovsky*
THE PRESIDENT AND DR HOWELLS
5. PART-SONGS *E. J. Moeran*
(a) The treasure of my heart
(b) Phyllis inamorata
6. SYMPHONY IN C *Dittersdorf*
Allegro assai—Andante—Allegro vivo
THE ORCHESTRA
LEADER: DOLF POLAK

CONCERT IN THE HALL

MONDAY, 17 June 1946. 8.45 P.M.

1. CONCERTO GROSSO NO. 8 IN B FLAT *Handel*
Solo Oboe: D. E. CORLETT
2. SONGS *Boyce*
The Song of Momus to Mars
Care Selve *Handel*
MESSRS G. D. BIRTLES AND G. H. BRIGGS
3. PIANO CONCERTO IN F MINOR *Bach*
Soloist: MR F. THISTLETHWAITE
4. SONATA FOR CLARINET AND PIANO *Stanford*
MESSRS J. CROOK AND R. B. MARCHANT
5. PIANO SOLO *Chopin*
Nocturne in G. Étude in G flat. Étude in A flat
MR J. C. BROWN
6. 'BROOK GREEN SUITE' FOR STRINGS *Holst*
Strings: Leader, ELFREDA ALLEN
Conductor: MR R. K. ORR

RECITAL BY AMARYLLIS FLEMING (*violoncello*)
AND HERBERT HOWELLS (*piano*), 3 MARCH 1946

1. SONATA IN A, OPUS 69 *Beethoven*
2. SONATA IN G *Sammartini*
3. ARIOSO *Bach*
4. MELODIE *Frank Bridge*
5. DANCE OF DEATH *De Falla*

THE NASHE SOCIETY

EASTER TERM, 1946

AFTER a lapse of more than eight years the Society was revived and held its first meeting at the end of the Easter Term. At a preliminary meeting of prospective members the objects of the Society were revised in certain particulars and it was decided that instead of remaining a literary society depending on literary men as we had been hitherto, we should enlarge our object to include distinguished men of any occupation to speak to us on the literary aspects of their activities. Thus, in time, we hope to be able to entertain important persons of all sorts. In addition to this change we decided that as the war had deprived us of so much that had existed before we should have a Society dinner at the end of each term, to be as lavish as the college and ministry of food will permit. This was accepted in the belief that it is much easier and infinitely more pleasant to digest good talk at the same time as one is digesting good food with the aid of good wine. The first dinner proved it to be so, and we feel that Thomas Nashe would approve of our reasoning and conduct.

The Master of Jesus was the first guest, and on 8 June he spoke to us on 'Realism and Fantasy in Elizabethan Literature'. Dr Tillyard has done considerable work in the Elizabethan field during the past ten years and we benefited greatly by hearing first hand so many of his theories and findings. We have to thank him and the Master for making this first meeting so successful, and Mr Gatty and Mr Davies (both founder members) for their generous advice and remarkable tolerance. Mr Thistlethwaite (another relique of the past) was equally active and helpful and regarded all the changes and proposed changes from the original policy with the interest of a calm radical.

This year, with an increased membership and two meetings a term, we hope the Society will reach its former heights.

THE NATURAL SCIENCE CLUB

MICHAELMAS TERM, 1944

President: J. C. NUTTER. *Vice-Presidents:* DR HOLLICK, A. J. B. ROBERTSON. *Hon. Secretary:* J. W. S. HEARLE. *Hon. Treasurer:* F. K. DOWNS-BROUGH. *Committee:* R. B. DINGLE, F. SIMM.

AN open meeting was held on 16 October, when the subject was the popular one of 'An investigation by Johnians of the supposed ghosts of Borley Rectory' by A. J. B. Robertson. He said that of the 58 people, mainly Johnians, who had visited the Rectory on one of the 26 visits during the investigation, 17 held the view that there was no evidence for peculiar events, 22 were uncertain, and 19 thought there was definite evidence. On 6 November Dr Allen read a paper on 'Liquid Helium' when he explained how liquid helium was produced and how certain unusual properties could be accounted for. At the meeting on 20 November Mr A. U. Huddle spoke on the 'Metallic State' and illustrated his lecture by lantern slides. His views on many aspects of this problem were unusual and interesting, though not always acceptable. Dr Searle spoke to the Club on 'A life spent in Practical Physics' on 27 November. We were surprised to hear that Dr Searle had discovered the law of the lever at the age of eight, and had always known Ohm's Law.

LENT AND EASTER TERMS, 1945

President: J. W. S. HEARLE. *Vice-Presidents:* DR HOLLICK, A. J. B. ROBERTSON, D. L. LIVESSEY. *Hon. Secretary:* R. B. DINGLE. *Hon. Treasurer:* J. C. NUTTER. *Committee:* F. SIMM, R. F. KING.

At the first meeting of the term on 29 January Mr Charlesworth gave a talk on 'Greek Science' in which he compared the state of scientific knowledge in Greece and Egypt, and showed that while in Egypt an army could be held up for 27 days by an eclipse, in Greece the explanation of eclipses had already been put forward, and many keen scientific observers were at work. The second meeting was held on 5 February when Professor W. King, Sc.D., O.B.E., gave a talk on 'Water Supply' with special reference to Cambridge. The speaker began by explaining and illustrating the technical meanings of the terms 'porosity' and 'permeability' and then outlined the geological structure of the Cambridge district, pointing out the places from which the town supply was actually derived. The third meeting took place on 12 February, Dr F. S. J. Hollick giving a lantern lecture entitled 'Life in the Himalayan Valleys of Lahoul'. The speaker pointed out the effects of the low rainfall of 4 in. north

of the Rotung Pass, compared to 127 in. south of the pass. Dr Hollick showed 150 beautiful slides, mostly in colour, to illustrate his lecture. The next meeting, held on 19 February and later adjourned to 26 February, was devoted to a thorough discussion on the subject of 'Science and Religion'. On 19 February Mr D. L. Livesey opened the discussion on the physical aspects of the subject, and on 26 February Dr Hollick opened the second part on the biological aspects.

The first meeting of the Easter Term was held on 30 April, when Dr J. F. Danielli gave a talk on 'Recent Advances in Cytology and Histology'. The speaker discussed three problems. Firstly, how far does the nucleus influence the cell? Secondly, what forces operate on the cell to cause its distinctive shape? Finally, the problem of the functions and locations of the enzymes in cells.

On 5 June the 137th meeting of the Club took place. At 8.30 p.m. a short business meeting was held, followed at 9 p.m. by a supper. The Club was pleased to have as guests Mr Charlesworth and Dr Allen. There were several short speeches. Mr D. L. Livesey explained the significance of 137 with a suitable scientific reference to the *Daily Mirror*, and Mr Charlesworth, by an ingenious calculation from Greek numbers, managed to produce 137 from the Secretary's name. This meeting made a very successful conclusion to the year's programme.

MICHAELMAS TERM, 1945

President: R. B. DINGLE. *Vice-Presidents:* DR HOLLICK, MR D. L. LIVESSEY, MR A. J. B. ROBERTSON. *Secretary:* A. N. SMITH. *Treasurer:* R. F. HEMMINGS. *Committee:* R. J. P. CRIBB, P. O. WILLIAMS.

The first meeting of the year on 23 October was called to hear Mr Livesey deliver a paper on 'Research on the Atomic Bomb'. During an extremely lucid exposition, the history and an outline of the construction of the bomb were dealt with. On 7 November Dr Bertram spoke on 'Seals and Seal Fisheries', illustrating the talk with lantern slides. Professor Bartlett read a paper on 'Recent Developments in Experimental Psychology' on 19 November, and conducted some experiments on members present. On 26 November Dr Bullard read a paper on his personal experiences of research on 'The Ocean Floor', which was illustrated by coloured films and slides. This ended the term's activities.

LENT TERM, 1946

President: A. N. SMITH. *Vice-Presidents:* DR HOLLICK, MR D. L. LIVESY, MR A. J. B. ROBERTSON. *Secretary:* R. J. P. CRIBB. *Treasurer:* R. B. DINGLE. *Committee:* R. F. HEMMINGS, P. O. WILLIAMS.

Dr Palmer was the first speaker, his subject being 'The Binding Forces between Atoms and Molecules', considered from the point of view of the energies involved in a combination. This paper, delivered on 21 January, was followed on 18 February by that of Dr Wormell, on the then topical subject of 'Sunspots'. On 25 February Dr Catchside read his paper on 'Genes and Development' illustrating it with samples. Mr G. C. Smith was the last of the term's speakers when on 11 March he talked about 'The Mechanical Shaping of Metals'.

No meetings were held in the Easter Term.

'P' CLUB

1944-45

THE beginnings of the 'P' Club are lost in the shrouds of the past. It started some time in 1942 quite unofficially as a gathering of members of the college, chiefly scientists, who were interested in the reading of plays and poetry. These pioneers thought that there was a definite need for scientists to become more conversant with English literature through informal meetings to read and discuss it. Most of the original members were lost in 1944, and as a result the attendance fell badly and the meetings became increasingly sporadic. Yet the original spirit of the meetings survived, and a nucleus of members met early in Lent Term 1945 to decide their future policy. A constitution was proposed and accepted, it became henceforth known as the 'P' Club the object of which is to read and discuss English literature. So as to extend the scope of its play-reading the Club has affiliated to the British Drama League from whose library a very wide range of plays can be chosen.

Officers elected for the May Term, 1945, were: *President:* REV. M. P. CHARLESWORTH. *Vice-President:* S. E. DAWSON. *Secretary:* G. W. GREEN. The following plays were read. In the Lent Term: *Winter's Tale* and *The Good Companions* by J. B. Priestley. In the May Term: *The Middle Watch*, by Ian Hay and Comdr. Stephen King-Hall; *The Corn is Green*, by Emlyn Williams; and as a fitting grand finale, *A Midsummer Night's Dream*.

It is hoped the Club will be well supported in the coming academic year and will prosper to attain a ripe old age.

1945-46

Comments on the significance of this organisation's initial are not invited. The financial backing of that indispensable and solvent senior member of the College, and periodical levies upon junior members, enable the 'P' Club to maintain its precarious connection with the British Drama League. Plays read ranged from *Troilus and Cressida* to *The Importance of being Earnest*. Irish colour at readings of Sean O'Casey's *The Plough and the Stars* and *Red Roses for Me* was provided by the Vice-Presidents; at Shakespeare readings the thunderous standards of Mr Rylands have not been attained, but we may yet find a Samson Agonistes capable of lifting the concrete roof off the New Buildings.

Though we hope to emphasise discussion rather than reading of English Literature this year, the Club as yet has had no occasion to enforce its admirable *senatusconsultum ultimum*, Rule 12: 'That overheated members be cooled in the Cam.'

W. R. G. B.

YET ANOTHER SOCIETY

1944-45

A MELANCHOLY note appeared at the end of the Societies' notes in the last issue of this magazine in which the Editor was unhappily forced to record the demise of the Classical and History Societies; now we are happily able to say that their death has been avenged, and that after many discussions 'Yet Another Society' was formed in January of this year, consisting of 18 members interested in various branches of the Arts.

At the first meeting on 20 January in the President's rooms the following titles were conferred:

President: MR CHARLESWORTH. *Recorder:* R. H. WILLIAMS.
Keeper of the Archives: J. H. BRIND.

These were considered to be sufficient for the present. At this meeting also, K. G. Wilden-Hart read a most interesting paper on 'Simon Bolivar', from which considerable discussion developed.

The next meeting was held on 17 February in G. H. B. Tregear's rooms when G. H. Briggs discoursed divertingly on 'Early English Music' with appropriate illustrations on a clavichord.

On 3 March in Dr Davidson's rooms, J. R. Wilkie introduced us to academical life in Scotland with a paper on 'The Scottish Universities'. It was at this meeting that a committee was appointed to inquire into the possibility of a collation early in the Easter Term.

At the next meeting on 21 April W. H. Godwin stimulated the Society with a penetrating paper on 'Tragedy without reference to Aristotle'; much discussion followed, some of it to the point.

The Committee appointed earlier having done its work successfully, the entire Society met for a sumptuous collation in Dr Davidson's rooms on 30 April to which we welcomed Mr Hugh Sykes Davies. The excellence of this collation was such that Dr Davidson was thereupon honoured with the title of 'Arbiter Elegantiarum'. The toast of 'The Arts' was drunk in a madeira which was considerably older than all but one of those present, and, with replenished glasses, conversation flowed till a very late hour.

Certain peculiarities of the Society seem to have caused some mystification in the College; we trust that this account of our activities has gone some way towards solving the mystery.

1945-46

'Yet Another Society' has thrived this year. Dr Davidson and Mr Thistlethwaite both crossed the Atlantic for their subjects, namely 'A Brazilian Episode' and 'American Jazz'. R. Williams showed a sympathy with 'The Pre-Raphaelites' which was a change from the twentieth-century attitude of most of the members. J. Bambrough was learned in his discussion of 'Good and Evil', and R. Simeone ('Puritanism in Polynesia') gave subject-matter in a suitably biased manner for discussion to follow. A literary salon, at which, *inter alia*, St Paul discussed the subject of 'Women' with Tristan Tzara, and a most successful collation, at which Professor Perkins was guest of honour, complete the list of activities of the Society for yet another year.

ASSOCIATION FOOTBALL

1944-45

President: MR BOYS SMITH. *Captain:* L. MCIVER.

Hon. Secretary: B. A. BARTON.

Six 'colours' remained from last season's team, and there were a few promising freshmen who showed their form in the trial game. However, R. D. Robson and two freshmen, J. F. A. Hall and E. D. Davis, were chosen for the 'Varsity's first match, which left the team depleted. The result was a 4-0 defeat by Trinity and Corpus Christi in our first league match, after a very scrappy game. Further trials were held and more talent was sifted out for the next game, a friendly match in which we defeated Bart's 5-1. Hall and Davis

returned to the team for the next league match, and we beat Emmanuel and Sidney Sussex 5-1. After this we settled down with a fairly constant team, and though Robson and Barton were playing for the 'Varsity and Harris was injured, we won all our remaining league matches.

League Results: Trinity and Corpus 0-4, Emmanuel and Sidney Sussex 5-1, Q.M.C. (London) 4-1, King's 7-0, Selwyn 6-4, Caius 6-0, and Pembroke 14-2.

We headed our section of the league on goal average, Q.M.C. being second, and thus qualified to play the leaders of the other section, L.S.E. (London), to decide the League Championship.

Other matches played in the Michaelmas Term were a very keen game against R.A.F. (Waterbeach), which ended in a 2-2 draw, and a match played at Hatfield against the De Havilland Works team, proceeds being given to a fund for air-raid victims, which gained over £50 as a result. With our team at full strength, reinforced by two guest players, some fine football delighted the spectators, and we won 8-0. One 2nd XI match was played, *v.* Magdalene and Clare 1st XI, to whom we lost 2-1.

Robson and Barton played against Oxford in December.

The Lent Term began with a friendly match against Downing, which was drawn 6-6 after an exciting game. Several matches were cancelled because of frost and snow, and the next match was against R.A.F. (Waterbeach), who won 5-3 in an enjoyable game. The first round of the Cup was against Jesus, whom we defeated 3-0, though our team-work was very disappointing. The second round was played a few days before the Oxford match, and our 'Blues' were forbidden to play by the 'Varsity captain. A. S. Harris returned to full-back after a long absence due to injury and illness, but Downing deservedly won 3-1, although an early goal from L. McIver, our captain, by an individual effort, encouraged our team.

Several friendly matches were played during the remainder of the term, including one against a good Home Guard team, which we lost 3-5. On 7 March we played the League Final on Grange Road ground, and comfortably defeated L.S.E. 3-0, although K. Forster, our centre-half, was injured and left the field soon after half-time.

L. McIver, R. D. Robson, and B. A. Barton played against Oxford in February. A. S. Harris, K. Forster, J. F. A. Hall, and E. D. Davis also played once each for the 'Varsity and were elected Falcons. Harris might have gained a permanent place in the 'Varsity team but was unfortunately unfit for a long period. Altogether, seven players played for the Falcons.

Colours were awarded to: C. E. Watt, K. Forster, R. G. Waterhouse, J. F. A. Hall, E. D. Davis, D. Ormond, and K. Costello.

Half-Colours were awarded to: K. Court and L. De Garis.

The Annual Dinner was held on Tuesday, 13 March, when the Guests were the Rev. M. P. Charlesworth, D. B. Vaughan and C. P. Woodroffe.

At the Annual General Meeting, held in Mr Boys Smith's rooms on Monday, 14 May, the following officers were elected for season 1945-46:

President: MR BOYS SMITH. *Captain:* K. FORSTER. *Hon. Secretary:* K. COSTELLO.

1945-46

President: MR BOYS SMITH. *Captain:* K. COSTELLO.

Hon. Secretary: N. THOMAS.

Only two full colours from the previous season came back into residence and so the club had to rely almost entirely on freshmen. Among these there was found to be a good deal of talent which blended to form quite a good College team. Two old colours of 1940-1, R. E. Robinson and A. L. R. Perry, also returned into residence, but selection for the 'Varsity prevented their appearance in League games. As in the previous season there were two divisions in the League. Of their eight matches in League A St John's won six and drew two. We were League runners-up, Downing being leaders having equal points with St John's but a better goal average. The results were (St John's given first) *v.* Peterhouse and Caius 2-1; Downing 2-0; Queens' 4-3; Emmanuel 4-2; Clare and Sidney 4-2; King's 3-1; Selwyn 3-3; St Bart's 2-2. During the term a good match was played against R.A.F. Waterbeach which we won 5-3.

In December, R. E. Robinson, A. L. R. Perry, N. Thomas, N. Kerruish were awarded 'Blues' and played for the 'Varsity side which drew 1-1 with Oxford.

The first match of the Lent Term was against a strong side from University College, London. A pleasant and well-contested game resulted in a draw. In the Cuppers, our opponents in the first round were King's whom we disposed of quite easily by 6-0. The second round provided sterner opponents in Caius whom we succeeded in defeating 3-1. In the semi-final we were drawn against St Catharine's, a strong side. The match was played in a minor blizzard, but from the start St John's team played magnificently and never allowed their opponents to settle down, finally winning by the large margin 6-0. Magdalene were the other finalists. The team did not play the best football it was capable of in the final at Grange Road, but won fairly easily 3-1, regaining the Cup lost the previous year.

The Annual Dinner was held on Monday, 11 March, the guests being R. G. Salmon and P. O. Williams.

The annual meeting of full colours was held in Mr Boys Smith's rooms and B. Valentine was elected Captain, N. Rosser Hon. Secretary for the season 1946-7.

Full Colours: B. Valentine, N. Rosser, N. Thomas, N. Kerruish J. C. Leeming, B. P. Stanney, G. S. Lowden.

Half-Colours: B. Spargo, G. Tyler, R. E. Smith.

THE ATHLETIC CLUB

THE 1945-6 season saw a marked revival of interest in Athletics among members of the College, and on the whole we had a successful season. The President was E. D. Cartwright and R. K. Hayward was elected Secretary.

The only Inter-College fixture during the season was a Knock-out Competition, in which we reached the semi-finals. The first round was on 25 February and we won this by a close margin from Caius after a most exciting tussle. R. R. Thorpe won the 220 yards, J. M. Veitch the Shot and Javelin, W. White the Long and J. J. H. Rymer the High Jump.

The semi-finals took place on 6 March. King's had a better balanced team and won with 60 to our 45 points with Emmanuel third.

College Colours were awarded during the season:

Full Colours: J. J. H. Rymer, E. D. Cartwright, J. M. M. Veitch, R. K. Hayward, A. W. Scott.

Half-Colours: E. T. Haws, J. R. Scale.

We should like to thank Mr Bailey and Mr Howland for the interest they have shown in the Club's activities.

With the return from the forces of several old colours, we look forward to the coming season with confidence.

THE CHESS CLUB

OFFICERS this year were:

Captain: J. M. M. Veitch. *Secretary:* W. K. Haymann. *Treasurer:* A. H. Corhayne.

The Club was fairly active in the Michaelmas Term, playing several matches of which the outstanding feature was a narrow victory over Trinity by 5½-4½. We also held meetings on Sunday evenings in J. Bourne's room, where members played each other, and two tournaments were arranged in the spring. D. R. Bland, the University Captain, gave a simultaneous display, and won 7, drew 2 and lost 1. The year has seen an increased and active membership of 15 and we have acquired more chess-men and books on chess.

THE CRICKET CLUB

1946

President: MR RAVEN.

LEN BAKER had the ground in perfect condition, and two or three games were played each week. The team was of moderate ability; but D. H. Clarke, after the University matches with Lancashire and Yorkshire, returned to College cricket and did great things for the side as Captain, scoring hundreds or sixties as the occasion demanded, and taking many wickets with his 'tweakers'. Of the remainder, F. Merry was perhaps the most consistent scorer.

B. M. W. Trapnell and W. H. Griffiths are to be congratulated on their Blues.

Old Colours who played regularly were: D. H. Clarke, B. M. W. Trapnell, J. M. M. Veitch and A. L. R. Perry.

Colours were awarded to: B. Valentine, F. Merry, J. F. Lees, A. A. Johnson, W. H. Griffiths, N. H. Crowder, K. Costello and R. M. Argyle.

THE HOCKEY CLUB

1944-45

President: MR CHARLESWORTH. *Captain:* C. P. WOODROFFE.*Hon. Secretary:* J. K. YATES.

THERE was an encouraging increase in the number of members this year, enabling a team to be selected from the Hockey Club alone rather than the General Athletic Club, as has been the case in previous war-time years.

Special note need only be made of two of the season's games—that against Clare in the Michaelmas Term and the 'Cuppers' match against Trinity Hall in the Lent Term. Both were singularly outstanding for speed, hard hitting and wild shooting. Clare turned up with their usual over-confidence, which did not seem to be ill-founded when they had scored two goals before the game had been in progress for as many minutes. However, undeterred by this we fought back and the final score was 3-3, all our goals being netted by E. Holmes. The Trinity Hall match saw an equally over-confident John's team having all their confidence blown sky-high by an extremely good Hall XI. This was one of the semi-finals of the Cup

matches, and although we played our best game of the season, we were beaten by 5-2.

Colours were awarded to: E. Holmes, C. R. Waterfall and J. D. Waters at the end of the Michaelmas Term and to P. G. Allan, P. J. Allitt, M. A. P. Gay, A. G. Robb and K. W. Wright at the end of the Lent Term.

J. K. Yates and E. Holmes played for the University, and the latter deserves special praise for the many beautifully clever goals which he scored as centre-forward.

C. P. Woodroffe and A. G. Robb played for the Wanderers.

At the end of the Lent Term, a team went to London to play four matches against Aldenham, Caterham and Kingston Grammar Schools and University College, London. Three of these were won. It is hoped that this short tour will be the beginning of a return to the pre-war practice of touring on a larger scale.

MICHAELMAS TERM, 1945 TO LENT TERM, 1946

President: MR CHARLESWORTH. *Captain:* P. G. ALLAN.*Secretary:* P. O. WILLIAMS.

At the beginning of the season we found ourselves with only one old colour, Peter Allan, but the return of Murray Argyle and the enthusiasm of a large number of promising freshmen gave prospects of a highly successful season. Although we lost Murray Argyle and Bob Roseveare to the 'Varsity team and Peter Allan and Peter Williams to the Wanderers, we managed to gain second place in the League and had high hopes of success in the 'Cuppers'.

We met Caius in the first round and gained a decisive victory. Christ's, too, were disposed of after a hard-fought game. This took us into the semi-finals where we met Clare. After an extremely hectic 90 minutes' play Clare scored the odd goal in three, but were unlucky in the final not to win the Cup which went to Emmanuel.

The Lent Term finished with the Dinner and a most satisfactory conclusion to a very enjoyable season. We congratulate Murray Argyle on being elected Captain of the 'Varsity team for the season 1946-7, Bob Roseveare on the award of his Blue, and Peter Allan and Peter Williams on the award of Wanderer's colours. Congratulations also to the following who were awarded 1st XI colours: D. K. Mackay, N. S. Forward, R. W. Fairhead, R. H. B. Chapman, I. N. Lang, D. B. Norwood and A. G. Aitchison.

Bob Roseveare and David Norwood were elected Captain and Secretary respectively for the season 1946-7.

LADY MARGARET BOAT CLUB

MICHAELMAS TERM, 1944

President: THE MASTER. *Senior Treasurer:* DR PALMER. *First Boat Captain:* D. B. J. WARDLE. *Second Boat Captain:* M. D. WHITWORTH. *Hon. Secretary:* H. SYMONS. *Hon. Junior Treasurer:* R. G. WATKINSON.

ALTHOUGH a large number of freshmen joined the Club this term, it was only possible to enter two crews for the December VIII's, since D. B. J. Wardle, M. D. Whitworth, P. H. Lord, H. Symons and J. S. Paton Philip all rowed in Trial VIII's.

The First VIII were a stylish and effective crew, who rowed some fast times during training, and credited themselves by finishing equal second in the First Division of the time races. With more drive, they would have been able to reduce the interval between them and Jesus, who came in first by a comfortable margin.

The Second VIII, although somewhat rough and short in the water, rowed very well indeed and finished second in the Second Division (having rowed a faster course than eleven first boats).

More time was spent on tubbing people this term, but late in the term two trial crews were formed, which were to be the basis of the Third and Fourth Lent Boats.

The crews for the December VIII's were as follows:

First VIII	Second VIII
<i>Bow</i> A. H. Cockayne	<i>Bow</i> R. D. Kendon
2 A. J. Shardlow	2 F. K. Downsborough
3 J. L. Jollans	3 C. L. Cadbury
4 F. A. Van den Bergh	4 P. Scott
5 A. D. Sewell	5 T. L. Kermode
6 R. G. Watkinson	6 D. H. Smith
7 J. Stringer	7 J. F. Garrood
<i>Str.</i> E. R. F. W. Crossman	<i>Str.</i> G. G. Janes
<i>Cox</i> M. V. Jarman	<i>Cox</i> E. H. Nicholson

LENT TERM, 1945

This term the First VIII had rather a strange career in that three different 'Strokes' were tried, at various stages of training, before the final order was settled only a fortnight before the races. On the first night, starting third, they bumped Pembroke I at Ditton. On the next night they rowed over without making much impression on Jesus. On the last night they got up to within a length of Jesus at Grassy, but Jesus went away in the Plough Reach and both boats rowed over.

The Second VIII, starting 14th in the First Division, bumped First and Third Trinity II just below 1st Post Corner on the first night. They rowed over on the second and third nights.

The Third VIII, who rowed in the fixed-pin ship, rowed over all three nights. Faulty coxing deprived them of bumping First and Third Trinity III at the same spot in the Long Reach on the first two nights.

The Fourth VIII entered for a 'getting-on' race, but they did not come in first.

M. D. Whitworth stroked the University Crew, which beat Oxford at Henley. D. B. J. Wardle rowed 'bow' and J. S. Paton Philip (as spare man) rowed '3' in the crew.

J. S. Paton Philip, F. A. Van den Bergh and P. H. Lord rowed '7', '5' and '4' respectively in the Goldie crew.

E. R. F. W. Crossman won the Andrews and Maples Silver Sculls for Freshmen.

The crews were as follows:

First VIII	Second VIII
<i>Bow</i> W. B. Fletcher	<i>Bow</i> C. L. Cadbury
2 A. J. Shardlow	2 F. K. Downsborough
3 J. L. Jollans	3 T. L. Kermode
4 E. R. F. W. Crossman	4 K. R. Broome
5 A. D. Sewell	5 J. R. Gough
6 R. G. Watkinson	6 J. F. Garrood
7 J. Stringer	7 A. H. Cockayne
<i>Str.</i> H. Symons	<i>Str.</i> G. G. Janes
<i>Cox</i> P. R. O. Wood	<i>Cox</i> M. V. Jarman
Third VIII	Fourth VIII
<i>Bow</i> B. Millar	<i>Bow</i> B. W. B. Shaw
2 R. F. Hemmings	2 R. W. Rothwell
3 E. C. B. Hall-Craggs	3 D. A. Cross
4 A. N. Smith	4 R. E. Jahn
5 D. Simpson	5 D. A. Rugg
6 D. H. Smith	6 R. G. Jones
7 R. J. P. Cribb	7 D. R. Poulter
<i>Str.</i> J. W. Martin	<i>Str.</i> G. W. Taylor
<i>Cox</i> E. H. Nicholson	<i>Cox</i> P. W. Wilmot-Dear

EASTER TERM, 1945

Professor Walker was regrettably unable to come back and coach the First VIII. Q. Des Claves of Clare stepped into the breach and coached patiently and effectively.

A fortnight before the races First Boat lost a most valuable member in J. S. Paton Philip, who broke his wrist during an outing. This caused changes through all the boats; but First VIII were the most affected, since a change of order had been made recently in the boat.

The crew did not properly settle down before the races. On the first night they rowed over, getting within a length of Trinity Hall at Morley's Holt after being $2\frac{1}{2}$ lengths down at Ditton.

On the second night, after a slow start, they were bumped by Christ's I on Grassy. Christ's were a fast crew and went up every night.

On the third night they rowed over again, being $3\frac{1}{2}$ lengths in front of Jesus I at Morley's Holt.

The Second VIII were attractive to watch and were able to move fast. During the latter half of training they rowed in a light ship. On the first night, starting second in the Second Division in a clinker ship, they caught Trinity Hall II on Grassy, thus becoming sandwich boat. In making their bump they had a large hole torn in their bows. They put on a temporary patch and rowed at the bottom of the First Division, but the patch did not hold and they rowed over with their bows settled low in the water.

On the second night they got into their light ship, but rowed over twice as sandwich boat, having got within three feet of Jesus II at the Railway Bridge.

On the third night they again rowed over twice.

The Third VIII were exceptionally unlucky. On the first night they broke an oar in passing an obstruction and rowed over, but First and Third Trinity III claimed a re-row and bumped them. (Our men had rowed their boat to the bottom and back with seven men, so that the Second VIII could use their boat if they needed it.) They rowed over on the second and third nights.

The Fourth VIII were somewhat surprised to find that they were starting in the Fourth Division again (this being caused by Corpus Christi putting their boat on the River in the Second Division and because there had been one too many boats in the Third Division last year). In spite of this initial setback they made two quick bumps on the first night (Downing III and King's II) and another bump in the Third Division (Clare III) on the second night. An unlucky 'crab' prevented them from catching First and Third Trinity IV on the third night.

The crews for the May races were as follows:

First VIII	Second VIII
<i>Bow</i> J. Stringer	<i>Bow</i> A. H. Cockayne
2 E. R. F. W. Crossman	2 A. J. Shardlow
3 B. Davies	3 C. L. Cadbury
4 P. H. Lord	4 S. C. Sen
5 H. Symons	5 T. L. Kermode
6 F. A. Van den Bergh	6 K. R. Broome
7 D. B. J. Wardle	7 W. B. Fletcher
<i>Str.</i> M. D. Whitworth	<i>Str.</i> R. G. Watkinson
<i>Cox</i> P. R. O. Wood	<i>Cox</i> M. V. Jarman

Third VIII

Bow R. J. P. Cribb
 2 D. R. Poulter
 3 J. D. Ward
 4 J. W. Martin
 5 J. R. Gough
 6 R. F. Hemmings
 7 E. C. B. Hall-Craggs
Str. G. G. Janes
Cox E. H. Nicholson

Fourth VIII

Bow B. W. B. Shaw
 2 B. G. Newman
 3 G. W. Harding
 4 D. H. Smith
 5 D. A. Rugg
 6 K. S. Williams
 7 B. Millar
Str. G. W. Taylor
Cox R. W. Rothwell

v. Imperial College Boat Club

On Saturday, 2 June, the First Boat rowed against I.C.B.C. in a side by side race from Ditton Corner to the finishing post below Chesterton Bridge. Imperial College drew away at the Railway Bridge and won by $2\frac{1}{2}$ lengths.

Royal Henley Regatta

The First Boat was entered for the Open Race for the Danesfield Cup in the one-day Regatta, the first since 1939.

Originally only one change was made in the order of the crew. But neither '3' nor '6' was able to come at the last minute. So six men rowed the boat, which was borrowed from Magdalen College, down from Oxford to Henley in two days. It was found to be impossible to get hold of any Second-Boat men to fill the vacancies; eventually J. R. Gough from Third Boat and F. W. R. Copeland (of Clare) rowed '3' and '6' respectively. The crew only had five outings before the race. We record our gratitude to Copeland for rowing with us: without him we could not have rowed at all.

In the first round we drew Jesus, Cambridge, and Thames Tradesmen's R.C. Jesus won by $1\frac{1}{2}$ lengths. We finished the same distance ahead of Thames Tradesmen. The race was over a shorter course of one mile.

The crew was as follows:

Bow J. Stringer
 2 E. R. F. W. Crossman
 3 J. R. Gough
 4 P. H. Lord
 5 H. Symons
 6 F. W. R. Copeland (Clare)
 7 D. B. J. Wardle
Str. M. D. Whitworth
Cox P. R. O. Wood

MICHAELMAS TERM, 1945

The first event of the term was the Colquhoun Sculls. Two members of the Club entered, J. S. Paton Philip and H. Symons, but both were beaten, the former by Bernstein (Jesus) and the latter by Garrod (Trinity Hall). The event was won by J. H. Neame (Trinity Hall).

The University Clinker IV's were restarted this term and the Club entered a boat made up of rather inexperienced men who were not rowing in the First VIII. They improved considerably by the time of the races, but were outclassed both in weight and experience by other crews. They drew Corpus Christi and were beaten comfortably by about 80 yards.

Clinker IV Crew

Bow D. A. Rugg
 2 K. S. Williams
 3 B. Millar
Str. G. W. Taylor
Cox C. A. Parrack

The main event of this term's rowing was the Fairbairn Cup Race. Two crews were entered; the First VIII consisted of six May colours, a freshman, and a second May colour at stroke. The crew was promising at times, but never managed to sit the boat properly. In the race they started badly and did not really settle down until the 'Pike and Eel'. They started 3rd, but finished 7th in 17 min. 50 sec.

The Second Boat suffered from several changes of order, but did well to go up to 18th from 20th in 18 min. 38 sec.

First VIII

Bow R. J. P. Cribb
 2 R. F. Hemmings
 3 A. K. Frazer
 4 D. R. Poulter
 5 J. R. Gough
 6 G. G. Janes
 7 E. C. B. Hall-Craggs
Str. A. J. Shardlow
Cox M. M. Shaw

Second VIII

Bow B. W. B. Shaw
 2 D. R. Morris
 3 J. G. N. Braithwaite
 4 R. G. Jones
 5 R. E. Jahn
 6 K. S. Williams
 7 B. Millar
Str. G. W. Taylor
Cox M. H. Shaheen

We had three members of the Club in Trial VIII's this term. J. S. Paton Philip (President of C.U.B.C.) rowed '7' and H. Symons rowed 'bow' in the losing crew, while P. R. O. Wood coxed the winning crew.

The Pearson and Wright Sculls attracted four entries, and was won easily by A. A. Banks in 9 min. 45 sec.

LENT TERM, 1946

Another sign of the return to pre-war conditions was the reversion to four days' rowing in the Lents and the Mays, and also rowing over the full course to Chesterton Footbridge.

There were two changes in the crew from last term. We were unlucky in not being able to obtain any experienced coaches for the term, so we had to carry on with a make-shift arrangement.

On the first night the First VIII were too slow off the mark and were caught by First and Third Trinity on Grassy Corner. On the Thursday '6' got his slide jammed up, and after only half a minute's rowing they were easily overhauled by Christ's. On the third night they rowed over comfortably as bumps were made both in front and behind us. On the last day after a really half-hearted row they were bumped by Trinity Hall on Grassy. Thus after starting second on the river we finished fifth.

The Second Boat, in spite of getting bumped by Queens' I on the first night, did rather better. They held out until the bottom of the Long, but just failed to keep away from Queens'. On the other nights they rowed over, ending up 14th in the First Division.

As for the Third VIII, they were bumped by Queens' II on the first night, rowed over on the next two nights, and were bumped by Downing II on the last night.

First VIII

Bow R. J. P. Cribb
 2 A. J. Shardlow
 3 H. P. Coster
 4 D. R. Poulter
 5 J. R. Gough
 6 G. G. Janes
 7 E. C. B. Hall-Craggs
Str. H. Symons
Cox P. R. O. Wood

Second VIII

Bow J. G. N. Braithwaite
 2 R. F. Hemmings
 3 R. E. Jahn
 4 K. S. Williams
 5 J. P. H. Allon
 6 D. R. Aitchison
 7 B. Millar
Str. G. W. Taylor
Cox M. M. Shaw

Third VIII

Bow A. G. Duce
 2 G. J. Otton
 3 A. J. Lines
 4 D. H. Nicholson
 5 S. K. Young
 6 J. R. Catford
 7 G. W. H. Higgs
Str. R. J. Lofts
Cox C. A. Parrack

A. A. Banks entered for the Fairbairn Junior Sculls and was just beaten by Burnford (Jesus) in the first round.

J. S. Paton Philip rowed 'bow' in the University Crew against Oxford from Putney to Mortlake.

This year we sent two crews to Chester for the North of England Head of the River Race held on 23 March. There was a change of order in the First Boat, and two changes in the Second Boat, for this event. The course was $3\frac{3}{4}$ miles long. The First VIII rowed very well, but at too low a rating, this probably being due to having rather a slow crew directly behind them. The result was that the First Boat was third, and the Second Boat ninth.

First VIII	Second VIII
<i>Bow</i> R. J. P. Cribb	<i>Bow</i> A. J. Lines
2 G. G. Janes	2 R. F. Hemmings
3 H. P. Coster	3 R. E. Jahn
4 D. R. Poulter	4 K. S. Williams
5 J. R. Gough	5 S. K. Young
6 H. Symons	6 D. R. Poulter
7 E. C. B. Hall-Craggs	7 B. Millar
<i>Str.</i> A. J. Shardlow	<i>Str.</i> G. W. Taylor
<i>Cox</i> P. R. O. Wood	<i>Cox</i> M. M. Shaw

EASTER TERM, 1946

This term we were fortunate in getting the services of three senior coaches. The Rev. J. N. Duckworth, the new College Chaplain, took us for the first two weeks. For the intermediate period we had Brigadier Gibbon, and for the last three weeks B. G. Ivory took us.

On the first night the First VIII, owing to a faulty stop-watch, got a very bad start, and were soon caught by Jesus I. On the second night they started off very much better and, after one or two anxious moments round Grassy Corner, we rowed over in front of Queens'. The third night was rather exciting from the spectators' point of view. The First VIII were within about 6 in. of Clare I, while St Catharine's I were very close on their tails. Eventually St Cath's got their bump on us before we were able to catch Clare. On the last night, we again rowed over in front of Queens', with only one anxious moment by Ditton Corner.

The Second Boat were rather more successful. On the first night, they rowed over at the head of the Second Division in front of Peterhouse I. Then, rowing at the bottom of the First Division they managed to bump Magdalene I just before the finishing post. They rowed over on the second day, failing to catch Emmanuel I, whom they did manage to bump at the Railings on the third day. They again rowed over on the last day.

The Third Boat was not successful. On the first two days they rowed over, but were bumped by St Catharine's II at Ditton on the third night, and by Jesus III on Grassy on the last night.

The Fourth Boat went up two places, catching Peterhouse II on the first night, and Caius III on the third night.

There was a Fifth Boat consisting entirely of ex-service-men which was entered for the 'getting-on' race. As the crew was very variable they had no chance of getting a place in the Fourth Division.

First VIII	Second VIII
<i>Bow</i> E. C. B. Hall-Craggs	<i>Bow</i> R. J. P. Cribb
2 G. G. Janes	2 R. F. Hemmings
3 H. Symons	3 S. K. Young
4 D. R. Poulter	4 J. P. H. Allon
5 J. R. Gough	5 B. Millar
6 R. G. Watkinson	6 R. J. Lofts
7 J. S. Paton Philip	7 H. P. Coster
<i>Str.</i> A. J. Shardlow	<i>Str.</i> G. W. Taylor
<i>Cox</i> P. R. O. Wood	<i>Cox</i> M. M. Shaw

Third VIII	Fourth VIII
<i>Bow</i> B. W. B. Shaw	<i>Bow</i> L. Wilson
2 M. V. Jarman	2 G. J. Otton
3 A. J. Lines	3 D. A. Cross
4 P. S. Molyneux	4 J. C. Leeming
5 W. M. Sewell	5 G. W. H. Higgs
6 J. R. Catford	6 K. D. Brown
7 A. G. Duce	7 R. K. Hayward
<i>Str.</i> D. H. Nicholson	<i>Str.</i> B. G. Newman
<i>Cox</i> C. A. Parrack	<i>Cox</i> A. C. Beatty

J. S. Paton Philip and H. Symons (*Steerer*) entered for the Magdalene Silver Pair Oars, without having had very much practice, and were beaten by Lindlar and Barton of Jesus.

H. Symons (*Steerer*) and J. S. Paton Philip entered for the Lowe Double Sculls, with about the same amount of practice as they had in the pair oars, and were beaten by Sloane Stanley and Burks of First and Third Trinity.

Marlow Regatta

The Second Boat with two changes was entered for the Junior Eights Challenge Cup. They drew Imperial College II and Queen Mary College in the first heat. After a restart, they beat Imperial College II by $1\frac{1}{2}$ lengths. In the final they had Oxford Dryads on the Bucks. side and Exeter College, Oxford, on the Berks. side. They

were slightly down on Exeter College at the half-way mark, but managed to win by about 2 ft. after a fine spurt.

Bow R. J. P. Cribb
2 D. H. Nicholson
3 A. G. Duce
4 J. P. H. Allon
5 B. Millar
6 R. J. Lofts
7 H. P. Coster
Str. G. W. Taylor
Cox P. R. O. Wood

The last event of the year was Henley Royal Regatta which went back to a peace-time footing again. A crew was entered for the Ladies' Challenge Plate as usual. The crew was the same as the First May crew with one exception, but the order was slightly altered. We were lucky in obtaining R. H. H. Symonds as a coach, and during the ten days preceding the regatta the crew got some valuable practice with the Thames Rowing Club First VIII and First IV, and also with King's College, London, and Bedford School. We were drawn to row Magdalen, Oxford. We had the Berks. side, and after a poor start we settled down to a hard row, but Magdalen went ahead in the early stages of the race and we were unable to catch them again, eventually losing by 2 lengths.

Bow E. C. B. Hall-Craggs
2 G. G. Janes
3 H. P. Coster
4 D. R. Poulter
5 J. R. Gough
6 H. Symons
7 J. S. Paton Philip
Str. A. J. Shardlow
Cox P. R. O. Wood

LAWN TENNIS CLUB

1944-45

President: THE MASTER. *Captain:* J. K. MOSS.

Hon. Secretary: P. J. ALLITT.

AN attempt was made this term to revive the activities of the Club, and in pursuit of this a fixture list was drawn up. Fourteen matches were arranged, five of which unfortunately had to be cancelled; all the matches played were won.

R. G. Salmon and P. A. Donovan were entered for the Freshmen's Trials, and played for the University throughout the season. They

were a great help to us in most of the matches, and were awarded College colours. J. K. Moss, P. J. Allitt, R. D. Robson and R. I. Stokes were the other regular members of the First Six, but B. O. Parker, C. A. Simpson, E. T. Haws and A. N. Adye were called upon occasionally, and gave a good account of themselves.

It was unfortunate that our President, the Master, could not attend the Club Dinner which was held again this year. The guests were Mr S. J. Bailey, Dr Davis and D. B. Vaughan (College Cricket Captain), whom we thank for their help and support during the term.

1945-46

Captain: J. K. MOSS. *Secretary:* R. I. STOKES.

First Team

A. G. AITCHISON.	D. W. D. SHAW.	J. K. MOSS.
K. M. STEVENSON.	R. I. STOKES.	R. GROSE.

Second Team

P. ALLAN.	A. C. BRIERLEY	E. T. HAWS
M. ILITCH.	W. SCHLESINGER.	W. HORSFIELD.

St John's tennis has flourished well this year. The pre-war courts near the pavilion are still out of use, but thanks to the almost single-handed efforts of our groundsman, Mr Baker, we have been able to use the riverside courts on the Backs for our matches. The Inter-college Tennis Leagues have started again, after a lapse of three or four years. St John's, like the other larger colleges, was represented by two teams. The First VI only lost two matches out of the six played, and the Second Team won and lost about the same number of matches, and so we can be satisfied that we more than held our own in the leagues. In the Inter-collegiate Knock-out Tournament, our two members of the University Team were unable to play, and we retired gracefully if somewhat perplexed after the first round.

Apart from college matches, we were unfortunate with influenza and rain, and had to cancel two interesting matches with University College, London, and the Cambridge Town and County Club. However, plague and earthquake would not be allowed to interfere with our annual 'friendlies' with Girton and Newnham, and these were duly played.

On the whole, we had a successful and enjoyable season, and the courts were used a great deal, by the teams and the rest of the College. And no doubt many a player will, in distant years, remember with pride the day his smash had such power and subtlety of direction, that the ball had to be retrieved from the waters of the Cam.

RUGBY FOOTBALL

1944-45

President: PROFESSOR WINFIELD. *Captain:* G. A. WHITE.*Hon. Secretary:* D. N. H. OWEN.

THE club at the beginning of the season numbered sixty strong. The prowess of the freshmen was estimated in a couple of trial games. In these the outstanding performers were Hall and Lowden, a particularly happy, though Scottish, combination of halves, and Pownall and Salmon, wing and centre respectively. These, together with the Captain, Secretary and Macleod were entered for the University Trials. Eventually, Macleod and Owen ran a brilliant left-half of the University line, Hall played fly-half, and Whittle was in the front row, the side being led by Vaughan, last year's Secretary of the College Club. The five Johnians played with verve and prominence and Vaughan's grand leadership and magnificent play earned him the captaincy of the English Universities XV. Macleod and Hall were also selected, the former, however, being unfit to travel. Lowden and Layton also played for the University XV and well deserved their LX Club colours.

The large membership of the Club enabled the fielding of A and B XV's in the league matches and an occasional C XV, these teams sometimes playing on the same day.

The A XV eventually won the League Championship, clinching the matter by decisively beating Bart's their nearest rivals, playing perfect rugby in the most inappropriate conditions, the honours going to the pack, within which Layton, Barratt, Suckling, Moss, Nye and Beaumont, were muddy but noticeable. The backs, superbly served by Lowden, were, strangely for a John's side, perhaps a more forceful combination on occasions than the forwards. The line usually consisted of Newman, Peers, Pownall and Hurst with Salmon at the head.

The B XV were very unlucky not to lead their division. They played a hearty type of rugby with a standard of enthusiasm set by Hutchinson, Mackintosh, Powlesland, Elliot-Binns and Adye. They and the C XV were never heavily beaten, though often outnumbered. They were assisted by some stalwarts from the Boat Club and by those happy rigger types qualifying for admission to the Rigger Dinner. Peter Woodroffe the Hockey captain also played some competent games for the A XV at scrum-half.

The successes of this term boded well for the 'Cuppers', but it was found impossible with five men in the 'Varsity side to have those

games and practices together in which individual brilliance might have been welded into an effective combination. The choice of the side was no easy task. There was a sorry lack of beef in Hall and hence in the forwards, and unfortunately Moss, the Falstaff and fury of the scrum, fell heavily and cracked his ankle.

In the first game we overwhelmed Sidney Sussex. The play was very careless, the backs being particularly off-handed, and the high score was due to the rampageous activities of Vaughan and the amazing goal-kicking of Salmon.

Against St Catharine's the team made a very poor combination. The fight was fast and very furious and keenly contested over the touch-lines. We scored early by a penalty goal (Vaughan) but a damaging rush by the opposing scrum trampled over our line, giving them a converted try. They held this lead until a few minutes from the end, through a welter of rushes, counter-rushes, scrums and private vendettas, until an infringement enabled Vaughan to kick a splendid goal to give us victory (6-5).

In the Jesus game the team was at its best and made a convincing victory, materialised by Vaughan, by a margin of a dozen points. In this match Hurst at full back, and Peers deputising for Macleod played very well, and Nye, though wearing a John's shirt was someone best avoided in the loose.

The final against Bart's was lost 8-6. This catastrophe ends the tradition of winning the Cup in alternate years. Our only excuse is to plead extreme tiredness, due to recent tussles, but the team nevertheless put everything it could muster, heart, guts, and boots into the battle to retrieve the advantage gained by Bart's from an early drop goal and try (presented by a flagrant mistake of our defence). Owen played magnificently on the left wing and his customary flying and high jinks gave us two tries. Although we were awarded two penalties in the last minute, the places were too near our line for the herculean, though rakish and unbesocked legs of Salmon, though it was only an ill wind that breezed them by the bar in the final inches. The forwards held well in the tight and Layton hooked so well that Vaughan on suitable occasions, particularly in the last minutes, was given a roving commission. In the loose, however, there was singular temerity to put the hair down and bind or to go down to an opposing rush. Lowden too was unduly harassed at the base, due mainly to the failure of our wing forwards to obstruct their opposite numbers' passage. Beaumont, however, was a veritable rocket in the loose, using his devastating tackle, unstinting to self and object.

We tottered from the field sad but with a great game behind us and knowledge that our sorrows would be adequately sunk that

night. The Annual Dinner followed the customary lines, the cider consumption being particularly heavy. A novelty, albeit rather outlandish, was a bag-pipe solo by McFadyean, a dour winger of the B XV, which provoked the XV's halves into a supposed 'fling', but quite genuinely an out-and-out reel, inadvertently interrupted by a benevolent porter (possibly of Welsh extraction).

At the Annual Meeting R. G. Salmon was elected Captain, and W. H. Beaumont Hon. Secretary for the coming year.

It would be most appropriate here to record an appreciation of the many activities of the Hon. Sec. and his able assistants Layton and Powlesland.

Cupper Team

Full Back: D. H. Hurst. *Three-Quarters:* D. N. H. Owen, A. J. Pownall, J. W. Macleod, R. G. Salmon. *Halves:* J. Hall, G. S. Lowden. *Forwards:* P. T. Barratt, D. Layton, G. A. Whittle, J. Horsfield, J. T. Nye, W. H. Beaumont, D. B. Vaughan, P. Williams.

F. J. Peers, C. P. Elliot-Binns and C. J. Lethbridge also played in the 'Cuppers' Team, the former, with J. K. Mass, being awarded First XV Colours.

1945-46

President: PROFESSOR WINFIELD. *Captain:* R. G. SALMON.

Hon. Secretary: W. H. BEAUMONT.

The season opened with the membership of the Club totalling over fifty, an encouraging sign for the selection of the Cupper's Team, which, after all, is the goal of every member. Nor was this hope unjustified, for the makings of a good side were evident before the Michaelmas Term was very old. Meanwhile, the backbone of the Club, playing in less glamorous circumstances, was upholding the hard-won reputation of the College in less spectacular but equally important games. The Club relapsed into the Christmas vacation with the First XV top of the League, undefeated, save on one occasion.

With the advent of the Lent Term, our triplet of 'Blues' was able to join in the preparations for the 'Cuppers'. Shortly before the first round, the side was given a severe shock in a friendly game with Jesus, and only just managed to win. This took some of the conceit out of the team, and they played magnificently against St Catharine's. It would be somewhat invidious to single out personalities in that game. All that is necessary is to state the bare fact that the Club won 11-5, and to pay tribute to a generous opponent. Clare, the next on the list, was comfortably defeated 19-6. In the semi-final against Emmanuel, play was poor and scrappy, and only a last-

minute try by Pownall enabled the Club to survive, by making a replay necessary. The lesson had been learnt, and Emmanuel was subdued, 13-0. The final was played out against Queens', and in the early stages of the game they were the more vigorous team, and scored quickly. Within a few minutes, the Club replied with a fine solo try by Lockhart. Henceforth the team woke up, the forwards responding to the stimulus particularly well. Each side scored in turn, and with the final total 16-11 in the Club's favour, the Cup came back to St John's. Nevertheless, although the forwards were fairly evenly matched, the Club did see more of the ball, and the outside play was dominated by Salmon and Lockhart.

Looking back, it has been a successful season, and the possibilities for next year seem as good. We offer our congratulations to L. Bruce Lockhart, G. S. Lowden and A. W. Scott on obtaining their 'Blues', and to B. S. Forster, P. Gordin, M. Hutchinson, E. S. Krause, J. F. Lees, T. R. W. Longmore, B. G. Newman, J. J. Rymer, D. H. Smith, and J. K. Vivian on being awarded their First XV colours: and also to A. M. Adye, D. H. Clarke, N. H. Crowder, K. M. McFadyean, I. B. Mackintosh, J. S. Nairn, J. M. Reeves, R. Wickens and W. R. White on being awarded their Second XV colours. The College was represented in the 'Cupper's' matches by the following: R. G. Salmon, W. H. Beaumont, L. Bruce Lockhart, G. S. Lowden, A. W. Scott, B. S. Forster, P. Gordin, M. Hutchinson, E. S. Krause, J. F. Lees, T. R. W. Longmore, B. G. Newman, J. J. Rymer, D. H. Smith, J. K. Vivian, P. Williams, A. J. Pownall, D. H. Clarke, and N. H. Crowder.

At the excellent Annual Dinner, provided by Mr Sadler and the Kitchen, Professor Winfield was once again able to take the Chair, and we thank him for the support that he has given throughout the season. As senior guest, Mr Stevenson was very welcome, for he has refereed many of our games and has also proffered an occasional appreciated word of advice. Undergraduate guests were S. Fox of Queens', P. J. Allon and K. Costello, both of St John's. The season ended officially at midnight, in the manner so well known to Rugger men.

SQUASH CLUB

1944-45

Captain: B. M. W. TRAPNELL. *Secretary:* M. L. AYLNER.

First Team: B. M. W. TRAPNELL, R. R. THOMPSON, M. L. AYLNER,
P. R. THOMPSON, C. P. E. ELLIOTT-BINNS.

THE College was again able to produce two teams, but we were unfortunate in having no outstanding freshmen as in the previous year; however, two members of the previous year's team remained.

In the Michaelmas Term a very shaky start was made. We lost four matches, won only three, and left one unplayed, in the League. During the Lent Term the team met with far more success, and we only lost one match to Clare 2-3.

In the end the First Team managed to retain its position near the top of the First League.

In the 'Cuppers' we had every hope of winning, with the help of Trapnell the University Captain, and R. R. Thompson a 'gander', but unfortunately very few matches were played, and the series was left unfinished.

COLLEGE NOTES

THE following were elected into Honorary Fellowships in the College:

April 1945. Sir RAGHUNATH PURUSHOTTAM PARANJPE (B.A. 1899),
Kt.

May 1945. THOMAS HENRY HAVELOCK (B.A. 1900).

March 1946. Sir EDWARD VICTOR APPLETON (B.A. 1914), G.B.E.,
K.C.B.

The following were elected into Fellowships:

April 1945. ARTHUR GUY LEE (B.A. 1940).
KENNETH JAMES LE COUTEUR (B.A. 1941).
JOHN BROUGH (B.A. 1941).
DAVID MARSHALL LANG (B.A. 1945).

August 1945. LESLIE HOWARTH (Caius B.A. 1933).

October 1945. GEORGE COLIN LAWDER BERTRAM (B.A. 1932).
FRANK THISTLETHWAITE (B.A. 1938).
LOUIS JOEL MORDELL (B.A. 1910).
DEXTER PERKINS (M.A. 1946).

May 1946. ANDREW JOHN BLACKFORD ROBERTSON (B.A. 1941).
PATRICK LEVER WILLMORE (B.A. 1942).

August 1946. RICHARD MEREDITH JACKSON (LL.D. 1938).

Dr G. C. L. BERTRAM (B.A. 1932) and Mr F. THISTLETHWAITE (B.A. 1938) have been appointed Tutors.

Mr E. CUNNINGHAM (B.A. 1902) has been appointed Junior Bursar in succession to Mr A. T. Welford.

The following, who were formerly Supervisors, have been appointed College Lecturers:

Dr W. G. PALMER (B.A. 1914).

Mr J. M. WORDIE (B.A. 1912).

Mr C. W. GUILLEBAUD (B.A. 1912).

Mr H. S. DAVIES (B.A. 1931).

Mr D. V. DAVIES (M.A. 1937).

The following have been appointed College Lecturers:

Dr L. HOWARTH (Caius B.A. 1933).

Mr F. SMITHIES (B.A. 1933).

Mr R. H. WINFIELD (B.A. 1931).

Mr F. HOYLE (B.A. 1936).

Dr W. A. DEER (Ph.D. 1937) has been appointed Tutorial Bursar in succession to Mr White.

Dr G. E. DANIEL (B.A. 1935) has been appointed Steward of the College in succession to Professor Briggs.

The Rev. J. N. DUCKWORTH (Jesus B.A. 1935) has been appointed Chaplain of the College.

New Year Honours, 1945

C.B.: A. S. LE MAITRE (B.A. 1920), Principal Assistant Secretary, Admiralty. W. H. T. OTTLEY (B.A. 1911), a Director of Finance, War Office.

C.B.E.: A. L. BINNS (B.A. 1914), Director of Education, West Riding of Yorkshire.

K.B.E.: J. R. PATTERSON (B.A. 1914), Chief Commissioner of the Northern Province, Nigeria.

C.M.G.: W. G. WESTON (B.A. 1933), head of the Foreign Shipping Department of the Ministry of War Transport.

Birthday Honours, 1945

C.B.: W. B. FODEN (B.A. 1914), assistant under-secretary of State in the Air Ministry.

New Year Honours, 1946

G.B.E.: Sir EDWARD VICTOR APPLETON (B.A. 1914), formerly Fellow, secretary, Department of Scientific and Industrial Research.

K.C.I.E.: Sir ARDESHIR RUSTOMJI DALAL (B.A. 1907), member of the Governor-General of India's Executive Council.

Knight Bachelor: MARTIN PEARSON ROSEVEARE (B.A. 1921), senior Chief Inspector, Ministry of Education.

C.M.G.: WILLIAM HENRY WEIGHTMAN (B.A. 1909), assistant secretary, General Post Office.

C.B.E.: RUDOLF PEIERLS (M.A. 1936), scientific consultant on atomic bomb research, D.S.I.R. FRANK SLATOR (B.A. 1902), assistant secretary, Ministry of Health.

Birthday Honours, 1946

Knight Bachelor: CYRIL LODOVIC BURT (Admitted 1913), Professor of Psychology, University College, London. JAGANNATH LUXMON SATHE (B.A. 1907), Indian Civil Service.

C.B.E.: RICHARD WHIDDINGTON (B.A. 1908), formerly Fellow, Cavendish Professor of Physics in the University of Leeds.

K.C.B.: Sir BERNARD WILLIAM GILBERT (B.A. 1913).

Sir FERDUS DUNLOP MORTON (B.A. 1909), Honorary Fellow, has been appointed a Lord Justice of Appeal (October 1944).

Professor A. HAMILTON THOMPSON (B.A. 1895), Honorary Fellow, has been appointed a member of the Ancient Monuments Board for England (1946).

Sir P. J. GRIGG (B.A. 1912), Honorary Fellow, has been appointed an executive director of the International Bank for Reconstruction and Development (1946).

Mr H. JEFFREYS (B.A. 1913), Fellow, has been elected a Foreign Associate of the United States National Academy of Sciences (1945).

Professor F. C. BARTLETT (B.A. 1914), Fellow, has been elected a Foreign Member of the American Philosophical Society, Philadelphia (1945).

Mr G. E. BRIGGS (B.A. 1915), Fellow, has been elected to the newly established professorship of plant physiology.

Mr M. H. A. NEWMAN (B.A. 1921), Fellow, has been appointed Fielden Professor of Pure Mathematics in the University of Manchester, in succession to Professor L. J. Mordell (16 March 1945).

Dr S. GOLDSTEIN (B.A. 1925), Fellow, has been appointed Beyer Professor of Applied Mathematics in the University of Manchester.

Mr H. G. RHODEN (B.A. 1930), Fellow, has been appointed University Lecturer in Engineering.

Dr D. H. VALENTINE (B.A. 1933), Fellow, has been appointed Reader in Botany in the University of Durham.

Professor J. D. COCKCROFT (B.A. 1924), Fellow, has been appointed director of the Research and Development Establishment at Harwell, Didcot.

Dr J. S. MITCHELL (B.A. 1931), Fellow, has been appointed Professor of Radiotherapeutics in the University (1946).

Dr F. S. J. HOLLICK (B.A. 1932), Fellow, has been appointed University Lecturer in Zoology.

Dr M. HYNES (B.A. 1932) has been appointed Reader in Medicine in the University of Cambridge (1946).

Mr F. SMITHIES (B.A. 1933), and Mr F. HOYLE (B.A. 1936), Fellows, have been appointed Faculty Assistant Lecturers in Mathematics.

Dr D. FAULKNER (B.A. 1937), Fellow, has been appointed research chemist to the Distillers' Company, Epsom, Surrey (1946).

Dr J. SAYERS (Ph.D. 1938), Fellow, has been appointed Professor of Electron Physics in the University of Birmingham (1946).

Mr J. C. GUNN (B.A. 1939), Fellow, lecturer in mathematics in the University of Manchester, has been appointed lecturer in the Department of Applied Mathematics, University College, London (1946).

Mr J. BROUGH (B.A. 1941), Fellow, of the Department of Oriental Books and Manuscripts, British Museum, has been appointed lecturer in Sanskrit at the School of Oriental Studies, University of London (1946).

Dr G. M. BENNETT (B.A. 1915), formerly Fellow, Professor of Chemistry at King's College, London, has been appointed Government Chemist (5 January 1944).

Sir E. V. APPLETON (B.A. 1914), formerly Fellow, has been elected an honorary member of the Institution of Civil Engineers (1945).

Dr E. C. S. WADE (B.A. 1920), formerly Fellow, Fellow of Gonville and Caius College, has been elected Downing Professor of the Laws of England.

Dr G. L. WILLIAMS (B.A. 1933), formerly Fellow, has been appointed University Reader in English Law at the London School of Economics (1945).

Dr A. C. OFFORD (Ph.D. 1936), formerly Fellow, has been appointed Professor of Mathematics in the University of Durham, at King's College, Newcastle-upon-Tyne.

Dr D. R. HARTREE (B.A. 1921), F.R.S., formerly Fellow, and formerly Fellow of Christ's College, has been appointed Plummer Professor of Mathematical Physics (1946).

Dr S. GOLDSTEIN (B.A. 1925), formerly Fellow, has been appointed chairman of the Aeronautical Research Council (1946).

Mr H. D. WESTLAKE (B.A. 1929), formerly Fellow, has been appointed to a newly created Readership in Greek at King's College, Newcastle-on-Tyne (1946).

Dr M. L. E. OLIPHANT (Ph.D. 1929), formerly Fellow, has been elected an honorary life member of the New York Academy of Sciences (1946).

Mr R. A. LYTTLETON (B.A. 1933), formerly Fellow, has been appointed University Lecturer in Mathematics.

Dr A. C. OFFORD (Ph.D. 1936), formerly Fellow, has been elected a Fellow of the Royal Society of Edinburgh (1946).

The following members of the College have been elected Fellows of the Royal Society:

Professor Sir F. L. ENGLEDDOW (B.A. 1913), Fellow.

Dr R. O. REDMAN (B.A. 1926), formerly Fellow, chief assistant at the Radcliffe Observatory, Pretoria.

Dr L. ROSENHEAD (Ph.D. 1930), formerly Fellow, professor of applied mathematics in the University of Liverpool (1946).

The Faraday Medal of the Institution of Electrical Engineers has been awarded to Sir E. V. APPLETON (B.A. 1914), formerly Fellow.

The Council of the Geological Society have awarded the Murchison Fund to Dr W. A. DEER (Ph.D. 1937), Fellow.

The Burkitt Bronze Medal for Biblical Studies of the British Academy has been awarded to Dr T. H. ROBINSON (B.A. 1903) (1946).

The Manchester University Court has conferred the honorary degree of Litt.D. on Professor J. W. H. ATKINS (B.A. 1901), formerly Fellow.

Mr J. M. EAGLES (B.A. 1922), since 1922 a master at Sedbergh School, has been appointed headmaster of Marling School, Stroud (December 1944).

Mr P. WOODLAND (B.A. 1925), Principal of Bedford Technical Institute, has been appointed Headmaster of Dursley Secondary School and Technical Institute (November 1944).

Mr E. T. JUDGE (B.A. 1930), chief technical engineer, Dorman Long and Co., Ltd., of Middlesborough, has been appointed a special director of the firm (December 1944).

Mr W. G. MORGAN (B.A. 1934), deputy town clerk of Bilston, Staffordshire, has been appointed deputy town clerk of Scarborough (November 1944).

Mr W. H. J. FUCHS (B.A. 1936) has been appointed lecturer in mathematics at University College, Swansea (1944).

Mr K. E. HEATH (B.A. 1938), as assistant master at Preston Grammar School, is prospective Common Wealth candidate for Parliament for the Fylde Division of Lancashire (November 1944).

Mr H. H. HUXLEY (B.A. 1939) has been appointed assistant lecturer in Latin at the University of Leeds (September 1944).

Mr J. BROUGH (B.A. 1941) has been appointed Assistant Keeper of Oriental Books in the British Museum (October 1944).

Mr D. G. KALE (*Matric.* Lent Term, 1939) was called to the bar by the Middle Temple 17 November 1944.

Mr L. J. MORDELL (B.A. 1910), Fielden Professor of Pure Mathematics in the University of Manchester, has been elected Sadleirian Professor of Pure Mathematics.

Mr A. L. BINNS (B.A. 1914), chief education officer to the West Riding County Council, has been appointed chief education officer for Lancashire (May 1945).

Mr E. MILLER (B.A. 1914) has been appointed part-time psychiatrist to the Surrey Child-guidance Clinic (August 1945).

Mr A. J. BEARD (B.A. 1918) has been appointed general manager and secretary of the Liverpool Philharmonic Society (1945).

The Rev. E. C. RATCLIFF (B.A. 1920), Fellow of the Queen's College, Oxford, has been appointed Professor of Liturgical Theology at King's College, London.

Dr G. A. H. BUTTLE (B.A. 1921) has been appointed Professor of Pharmacology at the College of the Pharmaceutical Society (1945).

Mr E. A. J. HEATH (B.A. 1921), Fellow of the Institute of Actuaries, has been appointed manager and actuary of the Medical Sickness Annuity and Life Assurance Society.

Lieutenant-Colonel H. A. GOLDEN (B.A. 1921), Chief Constable of Shropshire, has been appointed Chief Constable of Wiltshire (1945).

Dr L. S. PENROSE (B.A. 1921), of the Provincial Department of Health, Ontario, Canada, has been appointed Galton Professor of Eugenics in University College, London (18 January 1945).

Dr W. S. MACLAY (B.A. 1922), superintendent of Mill Hill Emergency Hospital, has been appointed a senior medical commissioner of the Board of Control (24 March 1945).

Mr J. G. DOWER (B.A. 1923), author of a report on National Parks, has been appointed a member of a National Parks Committee set up by the Minister of Town and Country Planning (July 1945).

Mr G. E. BLACKMAN (B.A. 1925), lecturer in Plant Ecology at the Imperial College of Science and Technology, has been appointed Sibthorpe Professor of Rural Economy in the University of Oxford (31 March 1945).

Dr A. F. BURSTALL (Ph.D. 1925), Professor of Engineering in the University of Melbourne, has been appointed Professor of Mechanical and Marine Engineering at King's College, Newcastle-upon-Tyne (1945).

Mr JOHN FLEMING (B.A. 1925) has been promoted Instructor-Captain, Royal Navy; he is in the Naval Meteorological Service (1945).

Mr P. FLETCHER (B.A. 1925), head of the Military and Engineering Side of Cheltenham College, has been appointed headmaster of the Prince of Wales's School for Europeans at Kabete, near Nairobi, Kenya (May 1945).

Mr H. S. MAGNAY (B.A. 1925), Director of Education, Leicester, has been appointed Director of Education for Liverpool (1945).

Mr C. W. OATLEY (B.A. 1925) has been elected into a Fellowship in Trinity College, Cambridge, on appointment to a College Lectureship in Mechanical Sciences.

Mr F. RAPLEY (B.A. 1925) has been appointed superintendent of the Bahia Blanca Waterworks Company, Argentina (1945).

Mr A. C. MAHER (B.A. 1927), agricultural officer, Kenya, has been appointed senior soil conservation officer, Kenya (September 1945).

Mr D. R. SEABORNE DAVIES (B.A. 1927) has been appointed Professor of Common Law in the University of Liverpool (1945).

Mr C. G. S. HARDEN (B.A. 1928), assistant master at Worksop College, has been appointed headmaster of St Bees School.

Mr N. F. ASTBURY (B.A. 1929), formerly of the National Physical Laboratory, has been appointed director of research to Messrs Joseph Sankey and Sons, Ltd., a Midlands steel firm.

Mr H. M. FOOT (B.A. 1929), Colonial Secretary of Cyprus, has been appointed Colonial Secretary of Jamaica (1945).

Mr J. G. LEATHEM (B.A. 1929), headmaster of King Edward VII School, King's Lynn, has been appointed headmaster of Taunton School (31 March 1945).

Wing-Commander R. H. WINFIELD (B.A. 1931) has been appointed medical observer in the Lancaster 'Aries' on a series of flights over the geographical and magnetic North Pole for the Empire Air Navigation School of the Royal Air Force Flying Training Command (*The Times*, 15 May 1945).

Mr B. L. GOODLET (B.A. 1932) has been elected a Fellow of the Royal Society of South Africa for many-sided researches in electrical engineering, both in peace time and in association with the Royal Navy (1945).

Mr J. A. McMULLEN (B.A. 1932) has taken up the position of assistant to the District Goods and Passenger Manager, London, Midland and Scottish Railway, Bristol, to which he was appointed in 1944 (1945).

Mr A. M. P. BROOKES (B.A. 1934) has been appointed University Demonstrator in Engineering.

Dr J. LOUGH (B.A. 1934) has been appointed University Lecturer in French.

Dr F. W. G. WHITE (Ph.D. 1934), professor of physics at Canterbury College, New Zealand, has been appointed an executive officer to the Australian Council for Scientific and Industrial Research (March 1945).

Mr L. P. S. SALTER (B.A. 1935), lately of the Army Education Corps, has been appointed conductor of the B.B.C. Theatre Orchestra (1945).

Mr G. S. RUSHBROOKE (B.A. 1936) has been appointed lecturer in mathematics in the University of Leeds.

Mr R. PEIERLS (M.A. 1936), Professor of Applied Mathematics in the University of Birmingham, has been elected a Fellow of the Royal Society (22 March 1945).

Mr M. O. PALMER (B.A. 1937) has been appointed Assistant Education Officer to the Somerset County Education Committee (1945).

Dr K. E. BULLEN (Ph.D. 1937) has been appointed Professor of Applied Mathematics in the University of Sydney (1945).

Mr A. K. CROSTON (B.A. 1940) has been appointed assistant lecturer in English Literature in the University of Sheffield (1945).

Dr D. D. ELEY (Ph.D. 1940) has been appointed lecturer in colloid chemistry in the University of Bristol (1945).

Mr I. R. FRASER (B.A. 1940) has been appointed an assistant master at Bristol Grammar School (1945).

Dr D. M. ROSS (Ph.D. 1941) has been appointed Demonstrator in Zoology at University College, London (1945).

Mr G. B. CHARLESWORTH (B.A. 1942) has been appointed mathematics and science master at the British Boys' School, Alexandria (1945).

Mr A. N. WORDEN (B.A. 1942) has been appointed to the newly founded research professorship of animal health at University College of Wales, Aberystwyth (February 1945).

Mr A. V. MURRAY (M.A. by incorporation 1943), Professor of Education at University College, Hull, has been appointed President of Cheshunt College, Cambridge (20 March 1945).

Mr J. B. MARRIOTT (B.A. 1944) has been appointed to a mastership at Charterhouse (September 1945).

Mr B. MOSS (B.A. 1945) was called to the bar by Gray's Inn on 19 November 1945.

Mr C. JINARAJADASA (B.A. 1900) has been elected president of the Theosophical Society (1946). He succeeds another Johnian, Mr G. S. Arundale (B.A. 1898), who died in 1945.

Mr H. E. CHASTENEY (B.A. 1910) has been appointed Chief Inspector of Factories (1946).

Dr W. J. S. NAUNTON (B.A. 1910), of Imperial Chemical Industries, Ltd., has been awarded the Colwyn Gold Medal of the Institution of the Rubber Industry (1946).

Mr CECIL FURNESS SMITH (B.A. 1912), Attorney-General, Tanganyika Territory, has been appointed Chief Justice of Trinidad (1946).

Mr C. W. HARDISTY (B.A. 1914) has been appointed a Commissioner of Customs and Excise, and is to hold the post of Director of Establishments (1946).

Mr J. V. SPARKS (B.A. 1918) has been appointed honorary radiologist to the Bristol Royal Infirmary (1946).

Mr A. S. LE MAITRE (B.A. 1920) has been promoted to be an Under-Secretary to the Admiralty (January 1946).

Dr H. V. DICKS (B.A. 1923) has been appointed to the newly established Professorship of Psychiatry in the University of Leeds (1946).

Major N. LONG-BROWN (B.A. 1924) has been appointed secretary of the Institution of Heating and Ventilating Engineers (1946).

Dr E. T. O. SLATER (B.A. 1925) has been appointed physician in psychological medicine, National Hospital, Queen Square, London (1946).

Mr R. PEDDIE (B.A. 1926), chartered accountant, has been appointed secretary to the United Steel Companies, Ltd., Sheffield (1946).

Dr T. N. GEORGE (Ph.D. 1928), Professor of Geology at University College, Swansea, has been appointed Professor of Geology in the University of Glasgow (1946).

Mr G. E. WALKER (B.A. 1928) has been appointed Secretary of Associated Electrical Industries, Ltd. (1946).

Dr M. L. ROSENHEIM (B.A. 1929) has been appointed honorary physician to University College Hospital (1946).

Mr V. J. SANGER-DAVIES (B.A. 1930), master at Sedbergh School, is leaving to take up educational work in Gambia, West Africa (1946).

Mr G. W. CARTER (B.A. 1931) has been appointed Professor of Electrical Engineering in Leeds University (1946).

Mr R. A. BINNING (B.A. 1931) has been appointed anaesthetist to the Sussex County Hospital, Brighton (1946).

Dr E. E. POCHIN (B.A. 1931) has been appointed director of the Department of Clinical Research in University College Hospital, London (1946).

Dr G. WILLIAMS (Ph.D. 1931) has been appointed Professor of Chemistry at Royal Holloway College, University of London (1946).

Mr R. D. I. BEGGS (B.A. 1932) was admitted a Fellow of the Royal College of Surgeons of Edinburgh 25 July 1946.

Mr J. F. DOW (B.A. 1932) has been appointed assistant physician at St George's Hospital, S.W. (1946).

Mr G. H. BAINES (B.A. 1933) has been appointed assistant surgeon at Birmingham United Hospital (1946).

Dr W. A. LAW (B.A. 1933), lieutenant-colonel, R.A.M.C., has been awarded a Rockefeller Travelling Fellowship in Medicine (1946).

Mr J. V. WOODMAN (B.A. 1933) has been appointed technical sales engineer at the London office of the firm of Whessoe, Ltd., tank makers, of Darlington (1946).

Mr D. W. YATES (B.A. 1933) was called to the bar by the Inner Temple, 15 May 1946.

Mr H. E. BELL (B.A. 1934) has been elected a Fellow of New College, Oxford (1946).

Mr J. V. HUGHES (*Matric.* 1934) has been appointed Assistant Professor of Physics at Queen's University, Kingston, Ontario (1946).

Mr G. W. LOBB (B.A. 1934), lieutenant, R.N.V.R., was called to the bar by the Middle Temple, 28 January 1946.

Mr J. LOUGH (B.A. 1934) has been appointed University Lecturer in French (1946).

Mr P. R. PFAFF (B.A. 1935) has been appointed Music Tutor Organiser on the Lindsey and Holland Rural Community Council (1946).

Surgeon Lieut.-Commander A. M. BARNETT (B.A. 1936) has been appointed a medical officer in Tanganyika (1946).

Mr H. W. DUNK (B.A. 1936) has been admitted solicitor (1946).

Mr E. W. HYDE (B.A. 1937), M.B., B.Chir., has been appointed radiologist to the Gloucestershire Royal Infirmary and Eye Institution (1946).

Mr R. B. MARCHANT (B.A. 1937), Mus.B., has been appointed lecturer in music in the Department of Education, University College, Hull (1946).

Mr P. A. P. MORAN (B.A. 1939) has been appointed a senior member of the staff of the Oxford Institute of Statistics (1946).

Mr J. A. CARDNO (B.A. 1940) has been appointed Director of Social Studies in the University of Sydney, New South Wales (1946).

Mr A. B. THOMAS (B.A. 1941) had been appointed research officer, Radiophysics Division, Council of Scientific and Industrial Research, Sydney, New South Wales (1946).

Mr G. W. HUTCHINSON (B.A. 1942) is manager for Crosland and Pickstone, Ltd., dyers and finishers, Bury, Lancashire (1946).

Mr W. K. HAYMANN (B.A. 1946) has been elected to the Twysden Studentship at Trinity College, Cambridge.

The following higher degrees have been taken by members of the College:

Sc.D.: W. D. WEST (B.A. 1923), Geological Survey of India.

M.D.: H. B. MAY (B.A. 1930).

Commonwealth Fund Fellowships have been awarded to Mr D. G. NORTHCOTT (B.A. 1938) in Mathematics at Princeton University, and to Mr I. P. WATT (B.A. 1938) in English Literature at the University of California.

JOHN SARGENT (*Matric.* 1928). A piece of sculpture accepted for the Exhibition of the Royal Academy of Arts, London, 1946.

The following ecclesiastical appointments have been announced:

The Rev. G. M. LEVITT (B.A. 1881) to be canon emeritus on resigning his honorary canonry in Rochester Cathedral (6 February 1945).

The Ven. ALBERT BAINES (B.A. 1893), Archdeacon of Halifax, resigned his archdeaconry and canonry in Wakefield Cathedral in August 1945.

The Rev. W. A. DOHERTY (B.A. 1895) is resigning the benefice of Christ Church, Worthing, which he has held since 1934.

The Rev. C. T. POWELL (B.A. 1895), vicar of St John, Worcester, to be an honorary canon of Worcester Cathedral (24 November 1944).

The Rev. A. J. CAMPBELL (B.A. 1897), D.D. Glasgow, minister of Evie, Orkney, has been nominated for the Moderatorship of the General Assembly of the Church of Scotland (October 1944).

The Rev. W. T. GIBBINGS (B.A. 1900), rector of Boddington, Northamptonshire, to be rural dean of Brackley First Deanery.

The Rev. F. W. ARMSTRONG (B.A. 1901), for 34 years minister of Trinity Presbyterian Church, Frelands Road, Bromley, has retired.

The Rev. W. H. ROSEVEARE (B.A. 1901), vicar of St Paul, Herne Hill, to be vicar of Warlingham, Surrey (27 November 1944).

The Right Rev. J. C. H. HOW (B.A. 1903), D.D., Bishop of Glasgow and Galloway, has been elected Primus of the Episcopal Church in Scotland.

The Rev. H. I. ROBINSON (B.A. 1906), rector of Londesborough, to be vicar of Sutton-on-the-Forest, Yorkshire (1946).

The Rev. P. N. F. YOUNG (B.A. 1906), vicar of St Augustine, Bournemouth, to be warden of the College of the Ascension, Selly Oak, Birmingham (1945).

The Rev. A. D. TAYLOR (B.A. 1907), vicar of Budbrooke, Warwickshire, to be rector of Icklingham, Suffolk (1945).

The Rev. Canon A. D. ALLEN (B.A. 1908), rector of Holme-Pierpoint, Nottingham, to be rural dean of Bingham, diocese of Southwell.

The Rev. W. BYRON-SCOTT (B.A. 1908), vicar of Masham, to be an examining chaplain to the Bishop of Ripon (July 1945).

The Rev. R. P. DODD (B.A. 1908), rector of Tarporley, to be rector of All Saints, Freshwater, Isle-of-Wight—a College living.

The Rev. J. E. C. ROSS (B.A. 1908), perpetual curate of Belton, Doncaster, since 1930, has retired.

The Rev. E. B. ADAMSON (B.A. 1911), vicar of Greatham, to be rural dean of Hartlepool (*The Times*, 22 February 1945).

The Rev. J. P. DENHAM (B.A. 1911), vicar of Ipplepen, Exeter, to be vicar of Hursley, Winchester (1945).

The Rev. R. H. GOODE (B.A. 1911), rector of Moreton with Little Laver, Essex, to be rector of Houghton Conquest, Bedfordshire—a College living (1946).

The Rev. C. G. T. COLSON (B.A. 1913), vicar of Warminster with St John's, Boreham, Wiltshire, to be rural dean of the Heytesbury portion of the rural deanery of Wylde (1946).

The Rev. G. A. BINGLEY (B.A. 1914), vicar of Capel, Surrey, to be vicar of Chevithorne, Devon (1945).

The Rev. W. A. CURZON-SIGGERS (B.A. 1915), vicar of St Martin, North-East Valley, Dunedin, New Zealand, has been appointed a canon of St Paul's Cathedral, Dunedin (1945).

The Rev. H. S. GOODRICH (B.A. 1915), rector of Irnham with Corby, Lincolnshire, to be rural dean of Beltisloe.

The Rev. H. S. GOODRICH (B.A. 1915), rector of Irnham with Corby, Lincolnshire, to be a prebendary of Lincoln Cathedral (1946).

The Rev. D. H. OWEN (B.A. 1919), rector of Maidford and vicar of Adstone, Northamptonshire, to the joint living of Maxey and Northborough, Northamptonshire (1946).

The Rev. D. B. HASELER (B.A. 1922), rector of Stapleton, Shropshire, to be rector of Moreton with Little Laver, Essex—a College living (1946).

The Rev. R. S. PHILLIPS (B.A. 1923), vicar of St Peter, Hunslet Moor, Leeds, to be rector of St Laurence, Darlaston, Staffordshire (29 January 1945).

The Rev. P. N. H. PALMER (B.A. 1924), vicar of Swaffham, Norfolk, to be rector of Great Oakley, Essex—a College living.

The Rev. D. M. SALE (B.A. 1924), rector of Thornton, Leicester, to be rector of Downe St Mary, Bow, Devon (1945).

The Rev. H. S. CARTER (B.A. 1926), minister of the Old Meeting House, Mansfield, Nottinghamshire, has been appointed minister of the Cambridge Unitarian Church (1945).

The Rev. H. I. NOAKES (B.A. 1928), vicar of St Andrew, Leytonstone, to be rector of St Mary-at-the-Walls, Colchester (1946).

The Rev. J. R. SOUTHERN (B.A. 1928), rector of Black Notley, Essex, to be vicar of East Ham (1945).

The Rev. J. R. M. JOHNSTONE (B.A. 1929), vicar of Frizinghall, Bradford, to be vicar of St Barnabas, West Knowle, Bristol (2 January 1945).

The Rev. S. ROBERTON (B.A. 1930), rector of Norton Malreward, to be perpetual curate of Cudworth with Chillington, Somerset (1946).

The Very Rev. R. S. K. SEELEY (B.A. 1930, from Christ's), formerly Chaplain of the College, rector of St George's Cathedral, Kingston, and Dean of the Diocese of Ontario, to be provost of Trinity College, Toronto, from June 1945.

The Rev. G. KERSHAW (B.A. 1933), chaplain to the Forces, to be vicar of St James, Heywood, Lancashire (1946).

The Rev. E. J. G. FOSTER (B.A. 1934) to be chaplain and lecturer at the Diocesan Training College, Chester (1945).

The Rev. W. J. REYNOLDS (B.A. 1936) to be vicar of White Ladies Aston with Churchill and Spetchley, Worcestershire (1946).

The Rev. T. C. LEDGARD (B.A. 1938), vicar of St Michael's and All Angels, Norton, Durham, to be Vicar of the united parishes of Warcop and Musgrave.

The Rev. E. W. SCOTT (B.A. 1938), curate of Holy Trinity, Cambridge, to be curate of Tilehurst, near Reading (1945).

The following members of the College have been ordained:

Mr R. G. WALKER (B.A. 1939) was ordained to the Presbyterian ministry on 25 July 1942 at St James' Presbyterian Church, Sheffield.

The Rev. P. H. STARNES (B.A. 1942) was ordained priest by the Bishop of Salisbury 1 July 1945, in the parish church of Holy Trinity, Weymouth.

The Rev. G. A. H. COOKSLEY (B.A. 1943) was ordained priest 23 September 1945 by the Bishop of Birmingham.

Marriages

CHARLES GUNDRY ALEXANDER (B.A. 1944), sub-lieutenant (E), Royal Navy, to MARY NEALE RICHARDSON, only child of S. R. Richardson of Lauriston House, Bickley—on 16 December 1944, at Trinity Church, Bromley.

RICHARD THOMPSON ASHBY (B.A. 1930), major, Royal Artillery, to ELIZABETH STUTTARD SAGAR—on 2 November 1945, at Canterbury.

BERNARD ANSON BARBER (*Matric.* 1939), to DIANA LEE-BARBER, younger daughter of Mr Lee-Barber, of Norton Lea, Torquay—on 17 August 1946, at Cocklington Parish Church, Torquay.

GAVIN BUTLER BARBOUR (B.A. 1932), M.B., B.Chir., squadron-leader, R.A.F.V.R., to J. A. BOUQUET, of Sydney, New South Wales—on 22 September 1945, in New Delhi.

ARTHUR HAWORTH BARRAN (B.A. 1933) to ROSA GREENWOOD, second daughter of J. R. Greenwood, of The Oval, Tranmere Park, Guiseley—on 27 March 1945, at St Oswald's Church, Guiseley.

MARTIN VERNON BATES (*Matric.* 1938), lieutenant (A), R.N.V.R., to PATRICIA BIRKHEAD, younger daughter of P. Birkhead, of Holmfirth, Yorkshire—on 28 April 1945, at Holmfirth Parish Church.

GEORGE RAYMOND BELL (B.A. 1937), to JOAN ELIZABETH COLTHAM—on 30 October 1944, in London.

JOHN GORDON BENSTEAD (B.A. 1942), to NANCY CARVER, only daughter of H. Richard Carver, of Thackley—on 9 January 1946, at Idle Parish Church.

JOHN ANSON BRIGHTMAN (B.A. 1932), lieutenant-commander, R.N.V.R., to ROXANE AMBATIELO, of Istanbul—on 25 January 1945, at the Chapel of the British Embassy at Istanbul.

FREDDIE RICHARD BROWN (*Matric.* 1929), captain, R.A.S.C., to MARJORIE ELIZABETH PALMER, only daughter of the Hon. Cecil Palmer, Fernhurst, Pinkneys Green, Berkshire—on 9 June 1945, at St James the Less, Stubbings.

CHRISTOPHER ARTHUR GEOFFREY BURNEY (*Matric.* 1935), M.B.E., to JULIA BURRELL, eldest daughter of Gordon Burrell, of Nether Auchendrane, Ayrshire—on 2 February 1946, at Holy Trinity, Ayr.

ROBERT JAMES BURNS (*Matric.* 1946), flying officer, R.A.F.V.R., to ELEANOR TEASDALE, of Toronto—on 3 October 1944, in Toronto.

FREDERICK SPENCER CHAPMAN (B.A. 1929), D.S.O., lieutenant-colonel, The Seaforth Highlanders, to FAITH MARY TOWNSON, flight-officer, W.A.A.F., only daughter of Major G. H. Townson, of Canefield, Lockerley, Romsey, Hampshire—on 31 January 1946, at the Church of the Redemption, New Delhi, India.

RICHARD EDRIDGE COWBURN (*Matric.* 1928), to CATHARINE ELIZABETH BISCOE—on 17 November 1944, at the British Consulate, Madrid.

RICHARD GUY BERRINGTON CRITTALL (B.A. 1933), lieutenant-colonel, to MARJORIE JUDSON, Junior Commander, A.T.S., eldest daughter of F. H. Judson, The Knowle, Calne, Wiltshire—on 15 February 1945, at Naples.

JOHN YARBOROUGH CROWLEY (B.A. 1934), to ANNE YOUNG, daughter of R. T. Young, of Batheaston, Somerset—on 1 June 1946, at St Andrew's, Burnham-on-Sea.

GLYN EDMUND DANIEL (B.A. 1935), Fellow, to RUTH LANGHORNE, of The Close, Exeter—on 12 September 1946, in Exeter Cathedral.

IDRIS JOHN DAVIES (*Matric.* 1940), to BERYL BAYLIS, only daughter of G. F. Baylis, J.P., of The Manor, Eastbury, Newbury—on 25 April 1946, at St James's Church, Eastbury.

JOHN VERNON DOCKRAY (B.A. 1922) to MARY FRANCES WRINCH—on 13 December 1945, at Ipswich.

PHILIP ANTONY DONOVAN (*Matric.* 1944) to HILDA MARGARET BELL, elder daughter of Robertson Bell, of Dalmeny, Bonnybridge, Stirlingshire—on 12 June 1946, at the University Chapel, St Andrews.

HAROLD PERCY DRAYSON (*Matric.* 1925), lieutenant-colonel, Royal Engineers, to RENEE LECOQ, younger daughter of Commandant R. G. A. Lecoq—on 7 June 1945, in Paris.

STEPHEN THEODORE EVE (B.A. 1933), M.B.E., M.C., major, 4th Queen's Own Hussars, to BETTY V. RANK, only daughter of J. V. Rank, of Ouborough, Godstone, Surrey—on 8 March 1946, at St Michael's Church, Chester Square, London.

THOMAS ARNOLD ASHBRIDGE FAIRLESS (B.A. 1939) to JOAN MARGARET CHETWYND, only daughter of the Rev. George Joseph Chetwynd, vicar of Shotley, Northumberland—on 23 December 1944, at St John's, Shotley.

WILLIAM FOWLER FELTON (B.A. 1939), major, R.A.M.C., to FELICITY ANNE HAMILTON HERVEY, daughter of Squadron-Leader H. E. Hervey, R.A.F.—on 17 March 1945 at St Michael's Church, Great Billington, Bedfordshire.

RAYMOND LANGDON CARTER FOOTTIT (B.A. 1926) to ROSE MARIE HODGSON, only child of W. A. Hodgson, of Harrogate—on 1 April 1946, in Calcutta.

WILLIAM HERBERT FORRESTER (B.A. 1943), lieutenant, Royal Engineers, to DOROTHY MARGARET EDMONDSON, petty officer, W.R.N.S., of Barrow-in-Furness—on 24 February 1945, at St Mary's Church, Fort St George, Madras.

HERBERT FREDERICK BRUDENELL FOSTER (*Matric.* 1927) to CHRISTINE LUCAS-TOOTH, younger daughter of Sir Leonard Lucas-Tooth, Bart., of Hardres Court, Canterbury—on 28 November 1945, at St Paul's, Knightsbridge.

MICHAEL ALISON GLOVER (*Matric.* 1940), captain, The Sherwood Foresters, to DAPHNE BOWRING, youngest daughter of Noel H. Bowring—on 1 September 1945, at Holy Trinity, Brompton.

HUGH NOEL GRAHAM-MARTIN (*Matric.* L. 1940), captain, 2nd Gurkha Rifles, attached Intelligence Corps, India, to CYNTHIA BROOK McVEAGH, daughter of Major Ferdinand McVeagh—on 11 June 1945, at Srinagar, Kashmir.

GEOFFREY JOHN CARDROSS GRANT (*Matric.* 1942), sergeant pilot, R.A.F.V.R., to BARBARA ELIZABETH ANN PHIPPS, only daughter of W. C. Phipps, of Camberley, Lymington, Hampshire—on 13 January 1945, at St Mary's Episcopal Church, Hamilton, Lanarkshire.

CHARLES ROGER HEYDEN GREEN (B.A. 1942), lieutenant, R.A.M.C., to JOAN MURIEL OLIVER, eldest daughter of J. H. Oliver, of Westminster Bank House, Northwood, Middlesex—on 1 December 1945, at Emmanuel Church, Northwood.

MICHAEL LINDSAY BRACEBRIDGE HALL (B.A. 1939), captain, Royal Warwickshire Regiment, to BRENDA MARY HALLAM, only daughter of George Hallam, of Purley, Surrey—on 2 July 1943, at Coulsdon Parish Church.

GERALD EDWARD HARBINSON (*Matric.* 1931), third son of the late W. J. R. Harbinson, to PAMELA MARY WEBSTER, W.R.N.S., only daughter of Paymaster Captain J. T. V. Webster, D.S.O., R.N.—on 5 August 1944, at St Patrick's Church, Cairncastle, Co. Antrim.

MAURICE JOHN HARKER (B.A. 1923), major, R.A.M.C., to AUDREY MARY NORFOLK, T.A.N.S., daughter of William Norfolk, of Wilburton, Cambridgeshire—on 26 May 1945, at the chapel of a British military hospital near Athens.

HENRY STEPHEN LYN HARRIS (B.A. 1941), to MARGARET M. E. HINGELEY, elder daughter of Commander E. F. Hingeley, R.N.V.R., of Hallam Street, London, W.—on 6 January 1945, at the Friends' Meeting House, Golders Green.

MICHAEL BEVERLEY LEEDS HARRISON (B.A. 1931), son of the late Henry Leeds Harrison (B.A. 1884), of Worthing, to MYRTLE IRENE KNOWLMAN, Third Officer, W.R.N.S., daughter of Andrew Knowlman, of Finchley—on 21 August 1944, at St Barnabas, Finchley.

ROBERT MALCOLM HAY (B.A. 1944) to COLETTE LUCILLE CANTRILL, daughter of S. H. Cantrill, of Birmingham—on 8 September 1944, at Portsmouth.

CHARLES HENRY TELFORD HAYMAN (B.A. 1905) to ALICE MURIEL OSWALD—on 20 December 1944, at St John's, Dormansland, Surrey.

CHARLES HERBERT HEATH (B.A. 1888) to CORDELIA JULIA, widow of the Rev. Barclay Kitchin—on 18 May 1945, at St Augustine's Church, Edgbaston.

NORMAN GEORGE HEATLEY (B.A. 1932) to MERCY BING, only daughter of Geoffrey Bing, of Rockport, Craigarad, Co. Down—on 18 December 1944.

JOHN ANTHONY HENDERSON (B.A. 1937), surgeon-lieutenant, R.N.V.R., to BARBARA JOAN HART—on 14 December 1944, at St Martin-in-the-Fields, London.

JULIAN LIVINGSTON HERBAGE (*Matric.* 1922) to ANNA INSTONE, daughter of Sir Samuel Instone, of 11 Hanover Terrace, Regent's Park—on 14 December 1944, in London.

ROBERT BARTLEY HODGETTS (B.A. 1941), lieutenant, R.N.V.R., Fleet Air Arm, to ANN KATHLEEN JEFFREYS, daughter of Robert Sidney Jeffreys (B.A. 1909)—on 29 January 1945, at Holy Trinity Church, Formby.

FRANK SAMUEL JENNINGS HOLLICK (B.A. 1932), Fellow, to ALISON CUNNINGHAM DEW ELIAS, of Greenfield, West Kirby—on 12 January 1946, at West Kirby Presbyterian Church.

JOHN HENRY HUTTON (M.A. 1936), Fellow of St Catharine's College, William Wyse Professor of Social Anthropology, to MAUREEN MARGARET O'REILLY—on 27 June 1945, at St Catharine's College, Cambridge.

JAMES ENTWISTLE JOHNSTON (B.A. 1924) to MARY WATSON MILLIGAN, second daughter of Peter Milligan, of Newbyres, Airdrie—on 27 April 1946, at Helen's Bay Presbyterian Church, co. Down.

ROBERT SMITH JOHNSTON (B.A. 1939), Advocate, to MARGARET JOAN GRAHAM, elder daughter of Lieutenant-Colonel A. G. Graham, of Pollokshields, Glasgow—on 21 August 1943, at Trinity Church, Pollokshields.

JAMES ARTHUR JOHNSTONE (*Matric.* 1935) to DOROTHY HACKET, only daughter of William Hacket, Peterhead—on 6 July 1946, at St Columba's Church House, London.

RONALD MONTAGUE JONES (B.A. 1933), Brigadier, to BARBARA ELIZABETH GIBBON, elder daughter of Bruce Gibbon, of Goonambil, Wategama, Ceylon—on 1 November 1945, in Kandy, Ceylon.

THOMAS WHITFIELD KEEBLE (B.A. 1945), captain, Royal Artillery, to URSULA MADELEINE SCOTT MORRIS, of Cardiff—on 7 July 1945, at St Margaret's Church, Roath.

WILLIAM HALL KENNEDY (B.A. 1934) to PAULINE ELIZABETH NOTT-BOWER, younger daughter of Sir Guy Nott-Bower, of Wimbledon—on 15 June 1946, at St Mary's Church, Wimbledon.

JOHN GOFF KILNER (B.A. 1944) to PAMELA DOREEN PECKETT, only daughter of Karl Alwyn Peckett, of Grimsby—on 2 July 1946, at Grimsby.

ARTHUR GUY LEE (B.A. 1940), captain, Royal Signals, to HELEN ELIZABETH WHITLEY—on 13 January 1945, at Halifax Parish Church.

LOVELL HILLIER BENJAMIN LIGHT (*Matric.* 1923), M.R.C.S., L.R.C.P., to COLYEEN AUDREY BELL (*née* NORMAN)—on 14 September 1946, in London.

WILLIAM ANDREW MAGOWAN (*Matric.* 1941), flying officer, R.A.F.V.R., to MARY VIVIEN BARBARA YOUNG, third officer, W.R.N.S., younger daughter of R. C. Young, of Culdaff House, co. Donegal—on 6 December 1944, at Culdaff Parish Church.

ERNEST BERTRAM ZELLER MASTERMAN (B.A. 1931) to MARY K. DAVIS, of Worthing—on 10 April 1946, at St Mary's Church, Goring-by-Sea.

KENNETH NEWIS (B.A. 1938) to KATHLEEN BARROW, daughter of John Barrow, of Davenport, Cheshire—on 23 October 1943, at Trinity Church, Stockport.

JOHN NOURSE (B.A. 1943), lieutenant, R.N.V.R., to HELEN JANE ALLISON, of Langside, Glasgow—on 18 May 1945, at St Margaret's, Newlands, Glasgow.

ALBERT CYRIL OFFORD (Ph.D. 1936), formerly Fellow, to MARGUERITE YVONNE PICKARD—on 4 August 1945, at the Round Church, Cambridge.

ERIC GEORGE PARFIT (B.A. 1932) to DOROTHEA HAGEDORN, daughter of Hermann Hagedorn, of Santa Barbara, California—on 10 August 1945, at Machinac, Michigan, U.S.A.

EDWARD JOHN KELMAN PATTEN (*Matric.* 1939), captain, The Welch Regiment, to MONICA GAITER, Q.A.I.M.N.S. (R.), second daughter of William Gaiter, of Merthyr Tydfil—on 4 June 1945, at Barrackpore, Calcutta.

DAVID PEGG (B.A. 1938), major, Royal Signals, to MARGARET MORGAN, 3rd officer, W.R.N.S., only daughter of Hugh Morgan, of Long Ash, Bishopston, Swansea, Glamorganshire—on 9 June 1945, at St Paul's Church, Kandy, Ceylon.

PHILIP EDWARD PERCEVAL (B.A. 1936), M.B., flight-lieutenant, R.A.F.V.R., to JOAN MARGARET HACKING—on 20 November 1945, at the King's Chapel of the Savoy.

BASIL DIXON POWER (B.A. 1940), to LORNA MARY EDWARDS, elder daughter of F. E. Edwards, of Raglan, Monmouthshire—on 4 September 1946, at Erdington Parish Church, Birmingham.

CHARLES NORMAN SETON PRINGLE (B.A. 1940), squadron-leader, R.A.F., to MARGARET ELISABETH SHARP, of Baildon, Yorkshire—on 21 September 1946, at St Barnabas, Heaton.

HAROLD CHRISTOPHER RACKHAM (B.A. 1939) to ELIZABETH SMITH, only daughter of Douglas Smith, of Regent Street, Cambridge—on 17 August 1946, at St Andrew's the Great, Cambridge.

ARNOLD FOSTER RATTENBURY (*Matric.* 1940) to SIMONETTE COOPER-WILLIS, daughter of Guy Cooper-Willis, of Chelsea—on 3 April 1946.

IOAN AUGUSTIN NICOLAE RATIOU (*Matric.* 1940) to ELISABETH PILKINGTON, only daughter of Colonel Guy Pilkington, of Fairfield, St Helens, Lancs.—on 22 September 1945, at the Chapel of the Savoy.

IAN JACKSON HERBERT RICHARDSON (*Matric.* 1940), sub-lieutenant, R.N., to SHEILA G. RIND, 3rd officer, W.R.N.S.—on 18 November 1944, at Kimpton, Hertfordshire.

FRANK PATRICK RICKARD (B.A. 1937), captain, Royal Signals, to E. M. BARRETT, daughter of A. F. Barrett, of Bedford—on 5 April 1945, at Holy Trinity, Bedford.

JASPER ST JOHN ROTHAM (B.A. 1932), only son of the late Cyril Bradley Rootham (B.A. 1897) to JOAN McCLELLAND, youngest daughter of J. K. McClelland, of The Hollies, Lichfield Road, Tamworth—on 25 September 1944, at St Luke's, Chelsea.

CHARLES IAN RUTHERFORD (B.A. 1940), squadron-leader, R.A.F., to YVONNE IRENE BOULT, youngest daughter of A. E. Boulton—on 14 June 1944, at St Mary's Church, Parel, Bombay.

ALEXANDER GEORGE SCULAR (B.A. 1930), lieutenant-colonel, Royal Artillery, to HELEN YOMA JOHNSTON, flight-officer, W.A.A.F., eldest daughter of James McCrie Johnston, of Harpenden—on 11 January 1945, at Holy Trinity, Brompton.

GEOFFREY WADSWORTH SEARS (B.A. 1944), son of John Edward Sears (B.A. 1905) to LINDA BRENDA COLETTE WALLIS, youngest daughter of William Rendall Wallis, of Lyme Regis—on 7 September 1944, in London.

JOHN CAMPTON SHARMAN (*Matric.* 1940) to MARGARET JOHNSON, eldest daughter of John Barham Johnson, of The Schools, Shrewsbury—on 4 March 1946, at St Chad's Church, Shrewsbury.

RICHARD ARTHUR AMYAS SMITH (*Matric.* 1940) to MARGARET McLEOD PANTON, only daughter of H. M. Panton, of Esher, Surrey—on 25 November 1944, at All Saints', Weston Green, Surrey.

OLIVER MIDGLEY TAYLOR (B.A. 1937), lieutenant, Royal Engineers, to MARGARET MARION DOLL, younger daughter of Ernest Doll, of Haywards Heath—on 24 November 1945, at St Richard's Church, Haywards Heath.

WILLIAM HARVEY EVELYN THOMAS (*Matric.* 1921) to EILEEN COOK, of Trowbridge—on 6 August 1946, at Devizes.

PATRICK DEHANY FRANCIS THURSBY (*Matric.* 1940), major, The Suffolk Regiment, to GABRIELLE ODETTE NEWMAN, only daughter of Dr C. D. Newman, chief medical officer, India State Railways—on 22 April 1946, at Lahore Cathedral.

JOHN DUDLEY HUGH TOD (B.A. 1936), captain, 10th Gurkha Rifles, to MARGUERITE IRENE HOPE FAWKES, younger daughter of Dr Marmaduke Fawkes, of The White House, Midhurst—on 3 March 1945, at St Jude's Church, Courtfield Gardens, S.W. 5.

GEOFFREY STURT UDALL (B.A. 1939) to ELEANORE BRIGHOUSE MASON, daughter of F. C. Mason, of Ormskirk, Lancashire—on 27 July 1946, at St George's, Hanover Square.

RICHARD GEORGE WALKER (B.A. 1939) to OLIVE SHAW, of Barrow-in-Furness—on 3 November 1942, at Barrow.

PETER BARTLETT COLLIER WATSON (B.A. 1929) to MARJORIE CLARE RICHARDS—on 21 November 1945, at Grosvenor Chapel, South Audley Street, London.

NORMAN TRAVISS WELFORD (B.A. 1941) to MURIEL JANET MOORING ALDRIDGE, youngest daughter of General A. Mooring Aldridge, of Bournemouth—on 30 December 1944, at Richmond Hill Congregational Church.

RICHARD LOUGHNAN WHITE (B.A. 1936), major, Royal Engineers, to HAZEL ROBARTS, W.R.N.S., daughter of H. P. Robarts, of Antofagasta, Chile—on 1 March 1945, at the Church of the Sacred Heart and St Aldhelm, Sherborne.

NICHOLAS SCOTT WIDE (*Matric.* 1941), captain, Royal Dragoon Guards, to RUTH M. N. BIRD, youngest daughter of T. N. Bird, The Headlands, Kettering—on 17 November 1945, at the London Road Congregational Church, Kettering.

JAN WILLEM DIEDERIK WILLEMSTYN (B.A. 1937) to PHYLLIS MARJORIE COOMBE, daughter of J. R. Coombe, of Glenesk, Hunton Bridge, King's Langley—on 4 May 1946, at Langleybury Church.

JOHN RATCLIFFE WILLIAMS (Mus.B. 1942), sub-lieutenant, R.N.V.R., to VALERIE TRIMBLE, younger daughter of Egbert Trimble, Enniskillen, County Fermanagh—on 3 May 1945, at St Bridget's, St Brides Major, Glamorganshire.

BRIAN HARVEY GOODWIN WORMALD (M.A. 1938), Fellow of Peterhouse, to ROSEMARY LLOYD, daughter of E. J. B. Lloyd, of Neston, Cheshire—on 29 June 1946, at Little St Mary's, Cambridge.

KENNETH NEIL WYLIE (B.A. 1934), major, Royal Engineers, to LEONIE QUARRY, W.R.N.S., elder daughter of Claud Quarry, of Tunbridge Wells—on 16 June 1945, at St Mark's, Tunbridge Wells.

OBITUARY

HUMPHRY DAVY ROLLESTON

ONE evening early in October 1883 two rather shy freshmen met in the first court and asked each other the proper procedure for entering Hall, so 'new' were they. Thus started the friendship which only ended more than 60 years later when they died within a few weeks of each other. Each was destined to bring distinction to our College, for one was Arnold Chaplin who became the learned Harveian Librarian at the Royal College of Physicians; the other was Humphry Rolleston.

Humphry Davy Rolleston was born at Oxford on 21 June 1862, the eldest son of George Rolleston, F.R.S., Linacre Professor of Anatomy and Physiology in the University, and great-nephew on his mother's side of Sir Humphry Davy, P.R.S. At Marlborough he displayed much prowess on the football field but so little in the classroom that his father decided a University education would be wasted on him, and sent him to St Bartholomew's Hospital to become qualified in the easiest manner. But his teachers there thought otherwise and advised him to go to Cambridge, which he accordingly did, being admitted pensioner at this College on 5 October 1883, under W. E. Heitland. Rolleston himself confessed that he was backward at school and even in his first year as an undergraduate. Then one day he awoke 'consumed with a passion for knowledge' which never left him. He attributed this to some endocrine gland hitherto dormant coming suddenly into action. Which renders the perspicacity of his Bart's advisers all the more meritorious.

At the end of his second year he was elected Scholar when he attained a first class in Part I of the Natural Sciences Tripos. In 1886 he was placed in the first class of Part II for human anatomy with physiology. He became junior demonstrator in physiology and in 1887 demonstrator in pathology. Here in conjunction with Professor C. S. Roy he undertook research work on the mechanism of the heart and was elected to a Fellowship in 1889. Meanwhile he had become qualified, and proceeded to the degree of M.D. in 1891. Two years later he became an examiner for the Cambridge M.B. and was elected F.R.C.P. in 1894, delivering the Goulstonian Lectures the following year. He chose for his subject The Suprarenal Glands and, at a time when they were becoming regarded as adjuvant excretory organs, maintained on clinical grounds that the symptoms of Addison's disease implied an 'atony', as he expressed it, due to the loss of some unrecognised factor. His acumen was confirmed

later in the same year when Schäfer and Oliver prepared an active extract from these glands, from which adrenaline was isolated a few years later. This was his pioneer work in endocrinology, a subject in which he always retained his interest.

There were many aspirants then waiting for vacancies on the staff of Bart's and Rolleston wisely decided to avail himself of the opportunity of joining the staff of St George's Hospital. In earlier years there he devoted himself largely to the teaching of pathology, in which he proved himself highly successful. One of his students who afterwards became surgeon to St George's Hospital wrote of that phase as follows: 'His methods were gentle, as he was himself in all his ways, but they were none the less inspiring. Under his guidance the recognition of tissue under the microscope, instead of being a rather dull affair, became an exciting adventure. His own reputation as a pathologist became so great that his opinion on a difficult section was widely sought and his verdict upon it accepted as final without demur.' He also became a member of the staff of the Metropolitan Hospital and of the Victoria Hospital for Children at Chelsea, to which latter Hospital he long remained attached. A rapid succession of vacancies placed him on the Senior Staff of St George's Hospital at the unusually early age of thirty-five. When everything seemed in his favour there came a temporary set-back, for he was threatened with lung trouble and in 1901 went to S. Africa as consulting physician to the Imperial Yeomanry Hospital at Pretoria during the latter half of the S. African campaign, with fortunate effects on his health. His earliest editorial enterprise appeared as three handsome volumes recording the work of the Imperial Yeomanry Hospitals. With these it became clear that the literary side of medicine made a special appeal to him; indeed his knowledge of medical literature was almost unique. His labours in producing the second edition of Allbutt's *System of Medicine* which appeared under their joint names are well known and widely appreciated. Another important and perhaps his most original work was his book on *Diseases of the Liver and Gall-bladder*.

The drawback to early promotion to the Senior Staff of his Hospital was that under the twenty-year rule in force there he was due to resign at 55, a prospect very distasteful to him. But before that evil day arrived the last war found him a Surgeon-Rear-Admiral in the Navy, a position he filled with distinction and to the great pleasure of his colleagues. Indeed, it was not likely that a man of his ability and character would be left unemployed and, on his relinquishing Naval rank with the honour of a K.C.B., he became President of the Royal Society of Medicine. Then in 1922 he was elected President of the Royal College of Physicians and discharged

the responsibilities of that distinguished office with conspicuous urbanity and dignity. During his tenure of office he was created a Baronet, in 1924. In 1925, on the death of Sir Clifford Allbutt, he was appointed Regius Professor of Physic, as had been confidently anticipated. Indeed, any other appointment at that time would have come as a disappointment to the profession. It is of interest that the only other man to hold both these offices was Francis Glisson in the seventeenth century.

Among his many activities while he was at Cambridge he followed his predecessor in interesting himself in Varrier-Jones' work at Papworth, becoming president of the Village Settlement there, work in which he had the inestimable advantage, here as elsewhere, of Lady Rolleston's sympathetic insight and practical co-operation. He also placed all medical graduates of Cambridge under a debt of gratitude by his *Cambridge Medical History*, published in 1932, which bears the mark of the careful research so characteristic of him and which is full of interest. In this book, among other things, he rescued from oblivion the great services of John Haviland, Fellow of this College, who held the Regius Chair from 1817 to 1851, and who laid the foundations of the School which was later to achieve such success. He also wrote a full-length biography of Sir Clifford Allbutt.

Rolleston used to say that one of the results of the retiring age, enforced by the new statutes, would be that Emeritus Professors would live on in Cambridge *watching* their successors. This he was determined not to do, retiring to Haslemere where he continued an active literary career until the last few months of his life. To this the *British Encyclopaedia of Medical Practice* and the *Practitioner*, to which he more than restored a prestige that had begun to fade, bear ample testimony. He was certainly a leading authority on the presentation of medical articles in clear and polished prose. There were two aspects of his literary work: first a scrupulous exactitude which made him an ideal editor, though a terror to a contributor careless of his references; and secondly, a wider outlook to include such studies as the changes in the incidence of disease, the history of endocrinology, idiosyncrasy and the medical aspects of old age (which seemed to have an almost painful interest for him). Reference should be made to his minute and delicate calligraphy; his friends jestingly told him that the greater he became, the smaller his handwriting.

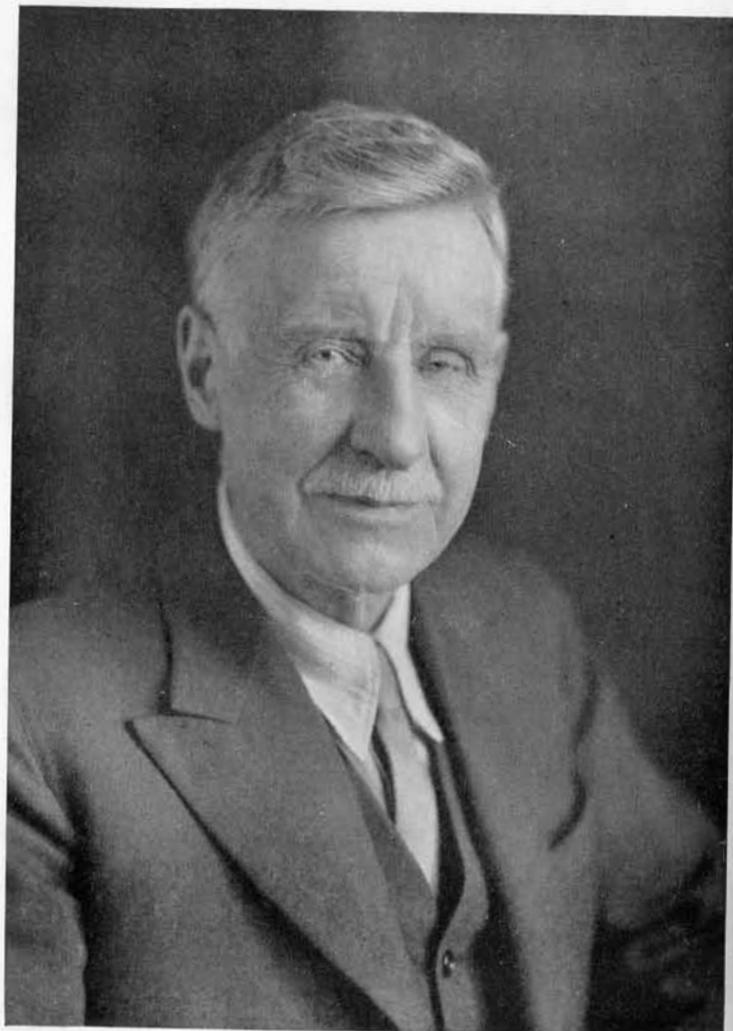
In this personal tribute it is not necessary to detail all the honours which were showered upon him. The list of his presidencies has been called 'a formidable one', as indeed is the list of his honorary degrees. He was Harveian Orator at the College of Physicians and Linacre Lecturer here. In 1923 he was appointed Physician-in-Ordinary to King George V, and with Lord Dawson and other

specialists he had a time of intense anxiety during the grave illness of the King in 1928. On the recovery of the Royal patient Rolleston received the G.C.V.O. He much appreciated his election into an honorary fellowship of our College, to which he always remained a devoted *alumnus*, and his name will now appear on our list of benefactors.

In 1894 he married Miss Lisette Eile Ogilvie, thus beginning what has been described an ideally happy partnership, which reached its fiftieth anniversary a few months before his death. The tragedy of their lives was the death of their two sons, one of whom was killed in Flanders in 1915, and the other in quelling a native riot in Zanzibar in 1936.

Rolleston's outstanding quality was a sterling integrity. A delicately sensitive sense of honour entered into all his words and deeds. Modest, patient, always courteous if a trifle aloof, his kindness and encouragement to his juniors was inexhaustible. Self-disciplined, he was happily at home in the disciplined service of the Royal Navy. A man of peace, he disliked controversy and detested intrigue. His unfailing respect for the personality of others sometimes gave an impression of timidity which was illusory, for where a matter of principle was involved he could be adamant. He had a keen sense of humour which expressed itself in a quaint, whimsical smile when amused. Though an academic physician he had great wisdom in consultation and the great gift of restoring the patient's confidence. Rolleston's chief recreation was lawn tennis which he continued to play with zest until he was over 70, enjoying it most as an interlude between spells of hard work. For such a public figure he was a retiring man. He refused to give an Inaugural Lecture when he became Regius Professor, and it is typical of this and of his consideration for others that he left instructions there should be no memorial service for him. But his best memorial is in the minds of the profession he served so well and himself adorned.

WALTER LANGDON-BROWN



LEWIS ERLE SHORE

LEWIS ERLE SHORE

DR SHORE, formerly University Lecturer and Fellow and Junior Bursar of St John's, died after a short illness on 27 July 1944. For over 40 years he had been a member of the staff of the Physiological Laboratory, for he became demonstrator to Michael Foster in 1887 and continued lecturing for several years after Langley's death in 1927. He was born on 5 July 1863, second son of T. W. Shore, F.G.S., and was educated at Southampton Grammar School and

Hartley College before coming to St John's. After gaining a first class in both parts of the Natural Sciences Tripos in 1884 and 1885 he entered St Bartholomew's Hospital, where he was clerk to the redoubtable Dr Samuel Gee. After graduating in medicine he returned to Cambridge and was soon after elected to a University demonstratorship and to a fellowship at St John's. Those were years of very active development both for the science of physiology and for the Cambridge school. Shore himself went to Breslau for post-graduate work and in those days a visit to a German laboratory was a normal part of the training of a physiologist: but the school which grew up under Michael Foster was soon to gain an international reputation of its own, and by 1914 Langley had a staff which numbered eight fellows of the Royal Society, each pre-eminent in his special field of research. There were no large research teams or elaborate programmes; indeed, there was very little in the way of equipment or assistance, but nowhere can there have been more inspiration to scientific work.

In this band of specialists Shore fitted admirably as an all-round teacher and a colleague whose good nature could never be shaken. He had a wide knowledge of physiology; and his own research work, mainly on peptones, was not at all negligible, but teaching was his chief concern. He knew how to arrest the attention of his audience by occasional touches of the dramatic; he took great pains to keep his lectures up to date and they were always clear and accurate. His lectures were greatly appreciated, but many generations of medical students will remember him principally as a demonstrator who was always ready to help them and was never impatient or discourteous. The shyest undergraduate could approach such a friendly person and would be made to feel that his questions deserved serious consideration. With his colleagues he was equally friendly and appreciative and to the end of his life he preserved his enthusiasm for the progress of physiology in general and the achievements of the Cambridge school in particular: in fact, his last illness cut short a book he was planning on the history of the laboratory.

During the last war he acted as neurologist to the 1st Eastern General Hospital. Besides this he was for 30 years Junior Bursar of St John's, winning the same regard and showing the same care with any work to which he set his hand. His period of office covered the time when medieval buildings had to be submitted to the electrician and the plumber, and the College was fortunate in having a man of Shore's artistic feeling and conservative temperament to control the development of its fabric.

He married in 1908 Agatha Catherine, daughter of R. Gresley Hall, and had one daughter and one son.

E. D. ADRIAN

Dr W. L. H. Duckworth writes:

These notes relate to an acquaintance which lasted from 1890 to 1944. During that period Dr Shore showed wonderfully little evidence of the lapse of time. His physique, his manner and his mental activity seemed equally defiant and indestructible.

As a medical student, my chief recollections are naturally of the years 1890-4, and my memory is materially aided by references to my physiological note-books of those years.

Thus I renew the sight of Dr Shore demonstrating the nature and mysteries of the 'buffy coat' displayed in a long glass cylinder. The spectators were assembled (I believe) in the so-called 'machine-room' of the newly opened extension of the Physiological Laboratory. Anatomy did not take possession of the corresponding new 'School' until the next term, and meanwhile remained housed on the site now occupied by Zoology. Having survived the notorious test of standing in a crowd to gaze impassively on an unaccustomed quantity of blood, we proceeded upstairs to study blood-corpuscles and fibrin in the 'Histology Room' overhead.

By 18 October 1890, we were encouraged by the same teacher to investigate the structure of cartilage. Animals so diverse as the cuttle-fish, the newt, and the mouse were laid under contribution. My note-book enables me to reconstruct the experiences of the course, class by class thrice weekly until 26 May 1891, and a feature of the instruction was the supply of leaflets setting out methods to adopt and results to be obtained. These leaflets were I believe mainly drafted by Dr Shore.

Occasionally he staged much more impressive demonstrations, and probably there were then but very few such experiences available to audiences in this country. Two in particular I recall. Both were given in the Demonstration Theatre. One related to vaso-motor effects. Herewith the name of Claude Bernard, and the injunction for great care in the employment of chloral as an anaesthetic, must suffice to indicate the scope of the first demonstration (both carried out on rabbits), while the second involved the exposure of nerves in the neck and the employment of a slip of diaphragm made to serve as part of the recording apparatus. This demonstration involves reference to the name of Henry Head, and it may have been given rather later than 1890.

It was about this time that we began to hear references to the Hyderabad Chloroform Commission, and more particularly to the association of Dr Shore with Dr Gaskell in testing certain details arising from the Report of the Commissioners. Further description would be inappropriate here, but these early memories serve to recall

Dr Shore's impressive manner, his well-chosen and well-delivered sentences, and his unflinching patience and imperturbable temper.

At a later stage I was the fortunate subject of a laboratory 'experiment', which led to the most lively appreciation of Dr Shore's concern for social amenities. Having mentioned this incident, I may be allowed to explain that the inquiry took the form of recording the effect of 'full meals' on the proportionate numbers of white blood corpuscles. When I add that the St John's College Kitchen under Dr Shore's direction provided the meals, readers of *The Eagle* will need no further assurance that the requirements of quality and quantity were assured and indeed exceeded. In fact the 'neutrophile' cells responded nobly and their percentage rose to an almost sensational figure.

The loyalty and success with which he managed the arrangements for the annual (Easter Term) Meeting of the Physiological Society belong to another epoch and are well recorded elsewhere. On a preceding page Dr Adrian has referred to the magnificent staff assembled and retained by Michael Foster for many years in the Department of Physiology. I have heard Dr Shore described as having earned the most unqualified praise from the Head of that Department. And the magnificence of the personnel could be seriously challenged by the Fellows or members of Dr Shore's own College during the corresponding years. Thus it is well to remember the talents and fame of physiologists (including Langley in his pre-Trinity days) in association with Hankin and Rivers, with McDougal and Langdon Brown in their budding phase, with Bateson, Weldon, Marshall, MacBride and Lister as Zoologists, F. F. Blackman and V. H. Blackman as Botanists, and Rolleston and Kanthack as pathologists.

In yet another connection, it has been my good fortune to enjoy and I hope to retain the friendship of Dr Shore's two nephews, whose father I used to meet in the course of clinical work at St Bartholomew's Hospital.

And a final long-distance view of Dr Shore himself brings back to mind the more general impression of his high standards of smartness and efficiency. The scene is laid on the Cambridge Departure Platform, where Dr Shore awaits the train to Liverpool Street. At his side is a porter's barrow with two leather gun-cases and two suit-cases, all exquisitely polished. I hope this does not count as 'telling tales outside school', but as it was the Christmas Vacation, no doubt the story would continue with a description of the spoils, with the College a recipient high up on the list.

The Master writes:

Not the least important part of Shore's work was done in the service of the College. Both in its teaching and administration he held office over an exceptionally long period. Generations of medical students remember him gratefully as the Director of their Medical Studies and their teacher in Physiology. A patient and thorough expositor, he was admirable with a class and always enjoyed the work, continuing it in other colleges for some years after his retirement from his duties in St John's. For the place he was content to fill, and which he filled so successfully, it was not easy to find a successor.

On the administrative side, he became Junior Bursar in 1900. In many respects the College was needing modern improvements, and Shore's office was for a long time a busy and responsible one. Though there were no new buildings undertaken, the introduction of modern conveniences into the old—electric light, baths, gas-rings, the telephone, and the keeping of the whole place in repair, presented problems in which he showed the greatest interest, and which he tackled with a due admixture of conservatism and innovation. The Junior Bursar works amidst the fierce light that beats upon the daily round, and Shore certainly came in for a good deal of criticism; but he took it all in good part. 'You say what you like, and I do what I like' was very often his attitude. But the work was always well done. Nothing was too good for the College. This naturally brought some differences with the Senior Bursar, for finance was not Shore's strongest side.

The appearance of the grounds was very much improved in his early years of office: the care of the water courses, the lawns and the trees, and the planting of flowers occupied him. In our grounds he began the planting of bulbs along the walks, which has added so much to the spring beauty of the Backs.

His plans for the baths were not realised until after the Great War, when also he undertook the burning problem of the redecoration of the Hall. In this matter he was unable to carry the Society with him, but the ultimate compromise has worked very well. Gilbert Scott's chandeliers were also removed and electric light introduced, with another compromise about fittings which has remained. The War Memorial, the re-roofing of the Library and our Wilderness summer-house were other matters which involved no little trouble for the Junior Bursar.

On the College Council he was a useful adviser, and he kept its minutes for many years. He had opinions, but was not contentious, and what he could not carry in discussion, he trusted to achieve in the administration—and generally did.

His relations with College servants were always good, and he managed that part of the Junior Bursar's work with unvarying success. The junior Fellows were apt, however, to become a little impatient with the formula, 'You leave it to me', which, like 'Wait and see', became in time the description of his procedure.

'The rain comes in at my door.'

'You leave it to me', said Shore.

'But it's beating upon my head!'

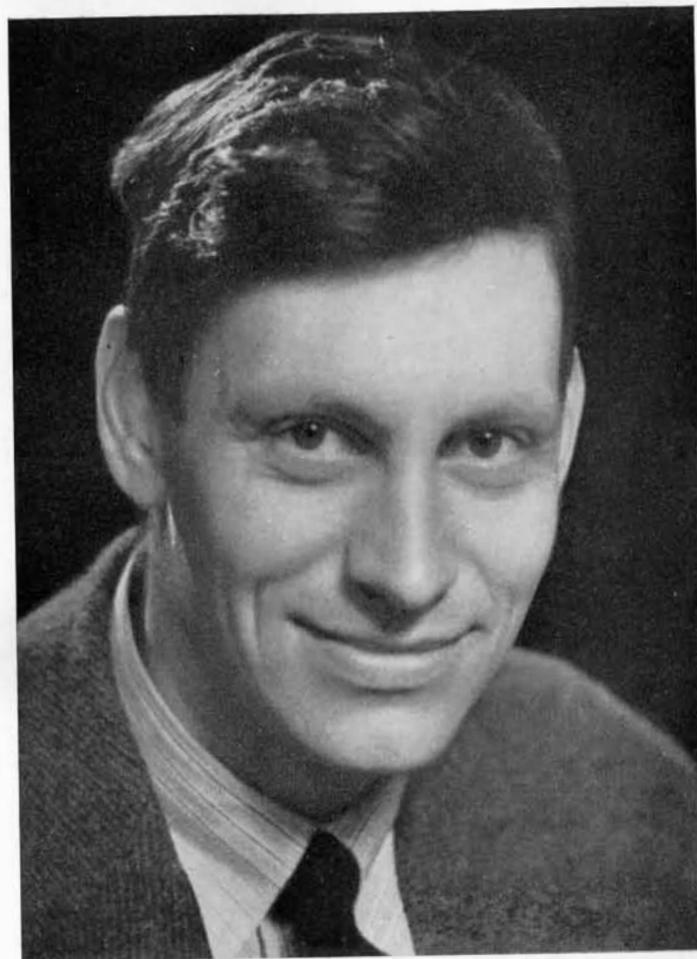
'You leave it to me', Shore said.

So wrote a friendly critic and expressed a general view. But though the speed of improvements slackened in the later years of his Junior Bursarship, yet, taking it as a whole, one realises how well he served the College through a transitional period in the developments of its domestic life. He certainly had many of the qualities that make a good administrator—caution, confidence and tact, and the work that he carried through was marked by thoroughness and good taste. He was for many years a central figure in the administration of the College, and it was not until he had gone that one realised how successfully he had managed the transition of its affairs from Victorian to post-Great War days. A sure and wise friend, calm and persistent in all that he did, he had no enemies and worked happily with a generation of College officers whose labours through difficult years entitle them to the gratitude of the College.

KENNETH JAMES WILLIAM CRAIK

IN KENNETH JAMES WILLIAM CRAIK, who died on 7 May as the result of injuries received in a street accident, Cambridge has lost one of her younger scientists whose gifts bore promise of exceptional achievements. At the age of thirty-one he had attained a high reputation for his work on vision in the borderlands between psychology, physiology and physics, and the respect of scientists, philosophers and others in many fields.

He was born at Leith in 1914, went to school at Edinburgh Academy, and thence to Edinburgh University, where he took his M.A. with first class honours in Mental Philosophy in 1935, and obtained the Shaw Fellowship in 1936. He came to St John's College, Cambridge, as a research student in the same year, took the degree of Ph.D. in 1940, and was elected a Research Fellow of St John's in 1941. In 1944 a unit of applied psychology of the Medical Research Council was formed in Cambridge, and he was chosen to be its first director. Throughout the war he was actively engaged in government research work, mainly for the three services.



KENNETH JAMES WILLIAM CRAIK

Perhaps the side of his rich and vigorous personality most likely to be noticed by those making his acquaintance for the first time was his gift for dealing with intricate and delicate articles. His rooms at the Psychological Laboratory and in College bore testimony to the breadth of this ability. In them could be found electrical, mechanical and optical apparatus, together with less serious things such as ships in bottles, pieces of home-made furniture, and even a home-made violin and kayak of Esquimo pattern, all of ingenious design and the work of a high-grade craftsman. He took his handiwork seriously, and held firmly the belief that, if a research worker is to be fully competent, he must be capable of maintaining and, if possible, making his own apparatus. His enthusiasm and selflessness made him always willing to use his skill on behalf of others: there must be many in Cambridge and elsewhere whose scientific apparatus, watches, clocks, wireless sets, and a host of other things he had restored to order, often after they had been condemned by the professionals as past repair.

It cannot be emphasised too strongly, however, that he was not, to use his own term, 'a mere gadgeteer'. While at school he won a prize for 'holiday work': his entry included a steam engine, a telescope, two essays on philosophical subjects, an album of photographs, a collection of butterflies, and a number of poems. The interests implied in this entry continued with him during his Cambridge days in a setting of acute and ever deepening scientific and philosophical thought. He was particularly interested in the synthesis of philosophical and psychological theories, and in seeing how far machines are simulated by mental processes. His thinking on these problems was not of a purely detached, academic kind, and, while he exercised the most severe discipline over his thought, he was passionately interested in the practical implications of the theories he considered.

While he had the maturity of mind of a man, he retained something of the spontaneity and high spirits of a schoolboy. Throughout his experimental work he displayed a buoyant enthusiasm and a complete disregard for personal comfort and even safety. He was never content to study his problems at second hand, but always wanted to know for himself just what it felt like to look at lights of blinding intensity, or to take this or that drug, or to work under the conditions obtaining in aircraft or ships or tanks.

Permeating his whole character was a rare kindness. He hated giving other people trouble, and would never spare himself effort to avoid doing so. He laid great stress on the virtue of being helpful and co-operative, and displayed it in all his activities: he never met people half-way, he always met them at *their* end.

Highly respected by his fellow workers, and beloved by all with whom he came into contact, his untimely death is indeed a great loss not only to Cambridge, but in both present and future to the scientific world.

A. T. WELFORD

A further appreciation by Professor Bartlett published in *The British Journal of Psychology*, May 1946, is reprinted at the close of this volume on pp. 454-65.—ED.

JAMES THOMAS WILSON

JAMES THOMAS WILSON, Emeritus Professor of Anatomy in the University of Cambridge, died on 2 September 1945, at the age of 84 years. He was born at Moniaive in Dumfriesshire on 14 April 1861, and was educated in the University of Edinburgh. There he graduated M.B., Ch.M. in 1883, and served under Sir William Turner as demonstrator of anatomy from 1885 to 1887. From Edinburgh he went to the University of Sydney to occupy a similar post, and in 1890 he became the first Challis Professor of Anatomy in that university.

Wilson served the University of Sydney with equal distinction as research worker and administrator. His work on the structure of monotremes and marsupials was outstanding, and in 1909 his scientific reputation earned his election to the Fellowship of the Royal Society. He had a profound influence upon the early development and expansion of the University, and was for many years dean of the Faculty of Medicine. His influence outside the University was equally important. He was in command of the Australian Intelligence Corps before the 1914-18 War, and organised the censorship in New South Wales when that war began. He was promoted to the rank of honorary colonel in 1915. Besides this, he was chairman of the committee for Commonwealth war propaganda in his State.

Wilson returned to England as Professor of Anatomy in the University of Cambridge in 1920, and was elected Fellow of St John's College in the same year. In Cambridge, although he continued his researches, his exacting standards allowed him to publish little, and his tenure of office was marked chiefly by his administrative reforms. He enlarged and reorganised the course of anatomy for the Natural Science Tripos Part I, and he created an excellent departmental library around the nucleus of his own collection of books and papers. From 1922-4 he was president of the Anatomical Society of Great Britain and Ireland, of which he had been the first overseas member,



JAMES THOMAS WILSON

and was president of the Cambridge Philosophical Society from 1924 to 1926. He represented the Australian Universities on the Executive Council of the Universities' Bureau of the British Empire from 1921 to 1938. In 1926 his own University of Edinburgh conferred on him the honorary degree of LL.D.

He retired from his chair in 1934 at the age of 73, but continued to lead an active life almost until his death.

Wilson was a distinguished research worker, but it was perhaps in the field of university administration that he made his greatest contribution to society. He was also a great teacher who inspired many pupils, of whom Sir Grafton Elliot Smith was probably the most distinguished.

M. H.

JOHN AMBROSE FLEMING

SIR JOHN AMBROSE FLEMING, Honorary Fellow of the College, died at Sidmouth on 18 April 1945, aged 95. He had been personally associated, says *The Times* obituarist, with the introduction into this country of three great electrical innovations which have become commonplaces of our daily life—the telephone, electric lighting by incandescent lamps, and wireless telegraphy, in particular the two-electrode thermionic valve. His scientific achievements are fully described in a notice by W. H. Eccles in *Obituary Notices of Fellows of the Royal Society*, vol. v, pp. 231–42. Here we can only give an outline of his career, with special reference to his early years and his Cambridge days, drawn largely from his *Memories of a Scientific Life*, published in 1934, supplemented by College records.

His connection with the College began in April 1877, when he was awarded a Natural Science Exhibition. He was then 27 years of age, having been born at Lancaster 29 November 1849. His father was the Rev. James Fleming, D.D., a Congregational minister. The family moved to Kentish Town, London, in 1854, and, after attending small local schools, Fleming was sent in 1862 to University College School. He passed the Matriculation Examination of London University at the age of sixteen, and then entered University College, to read for a science degree. It was then necessary for him to become to some extent self-supporting, and, after a few months in the drawing office of a firm of shipbuilders near Dublin, he became a clerk in a stock-jobber's office in London, working in the evenings for his final examination. In 1870 he was placed, with one other candidate, in the first division, and so qualified for the B.Sc. degree. He became a science master at Rossall School, but he resigned in 1872, feeling the need for further scientific training, and entered Dr Frankland's

Chemical Laboratory at the College of Science in South Kensington. Once more, however, it became necessary for him to earn his keep, and he took a science mastership in the Military and Civil Department of Cheltenham College. But the urge to a scientific career was still upon him, and the new Cavendish Laboratory at Cambridge, under James Clerk Maxwell, the first Professor, greatly attracted him. He had saved about £400; the College, by the award of the Exhibition, of £50 for three years, made a Cambridge career possible.

In the Michaelmas Term of 1877, then, Fleming came into residence, to lodgings in Portugal Place. The Little-Go, which had involved some intensive coaching in Latin and Greek during the summer, was successfully passed in December, with a first class in both parts, and Fleming settled down to read for the Mathematical Tripos, his private coach being Mr W. H. Besant, Fellow of St John's.

According to his own account, published some 55 years later, it was not until after his father's death in November 1879 that he turned over to the Natural Sciences Tripos, but College records show that, in fact, he took the Natural Science Mays in 1878, being placed in the first class. He records that he attended Maxwell's lectures, finding them difficult and the class minute; but he took careful notes, which he presented to the Cavendish Laboratory at the Maxwell centenary in 1931. He also attended Stokes' lectures on physical optics. In 1879 he was elected into a Foundation Scholarship in the College. He obtained a first class in the Natural Sciences Tripos in 1880, in physics, chemistry and mineralogy, being distinguished in physics; the College awarded him a Hughes Prize and a Wright's Prize. The opportune offer by Professor James Stuart of a demonstratorship in mechanism and applied mechanics enabled him to continue to reside in Cambridge, but in the summer of 1881 he was appointed the first Professor of Mathematics and Mechanics at University College, Nottingham. Here, again, he did not remain for more than a few months, leaving this time to take up a post as electrician to the Edison Electric Light Company. Finally, in 1885 he was appointed Professor of Electrical Engineering at University College, London, and here he remained until his retirement in 1926.

On 5 November 1883 (he himself says 1882) he had been elected into a Fellowship in St John's, being admitted the next day, but he did not return into residence, though he continued to hold his Fellowship for the then normal period of six years. It should be mentioned that in 1912 he advised the College on the introduction of electric lighting. He was knighted in 1929 and, as he notes with pride and gratitude in his *Memories*, on 18 February 1927 he was elected an Honorary Fellow of the College. In his will, after specific

bequests and a life-interest, he left one fifth of the residue of his estate to the College.

In the College Library is preserved a letter from Fleming to Sir Joseph Larmor, written from North Wales in August 1923. An extract may perhaps fitly close this inadequate notice: 'It is indeed wonderful how the *electron* has come to the front. It is now the master weapon of the wireless engineer. Not far from here at Carnarvon there is a great wireless station in which a great panel of 60 large valves, the size of footballs, sends out electric wave signals *direct* to Australia. What would Maxwell have thought of that!'

EUSTACE WILLIAM AIRY (B.A. 1897), of Bridge House, West Hythe, Kent, died 10 November 1944, aged 69.

AARON ALEXANDER, LL.M. (B.A. 1912), of the Inner Temple, barrister at law, died 12 September 1945 in Cairo, aged 56.

GEORGE SYDNEY ARUNDALE (B.A. 1898), president of the Theosophical Society, sometime principal of the Central Hindu College, Benares, died in August 1945 at Adyar, Madras, aged 66.

NORMAN ASHBY (B.A. 1907), formerly rector of Thorley, Hertfordshire, died 1 February 1946 at Madingley, Cambridgeshire, aged 64.

CHARLES ASKWITH (B.A. 1890), late vicar of St Matthew, St Leonards-on-Sea, canon of Chichester, died 25 February 1945 at Leamington Spa, aged 82.

FRANCIS GIBSON BAILY (B.A. 1889), Emeritus Professor of Electrical Engineering at Heriot-Watt College, Edinburgh, died 23 February 1945 at Juniper Green, Midlothian, aged 76.

JOSEPH EWART BARKBY (B.A. 1930), lieutenant, R.N.V.R., died 10 July 1945 at East Molesey, aged 36.

CYRIL ELMES BEALE (B.A. 1910) died 30 January 1945 at Bournemouth, aged 56.

JOHN BEGGS (Adm. 1884), formerly vicar of Woodford, Stockport, died 14 August 1946 at St Leonards-on-Sea, aged 89.

WILLIAM HENRY BOX (B.A. 1889), rector of Puckington, Somerset, 1894-8, died 20 August 1944 at Ashurst Wood, East Grinstead, aged 90.

HARRY STANLEY BRANSCOMBE (B.A. 1885), formerly vicar of Rothwell, Yorkshire, died 28 November 1945, aged 81.

SIDNEY BRAYSHAY (B.A. 1906), formerly executive engineer, Federated Malay States, died 12 June 1946 at Meopham, aged 61.

WILLIAM HENRY BROWN (B.A. 1889), secretary for elementary education, West Riding of Yorkshire, from 1903 to 1927, died 27 December 1945 in London, aged 82.

JOHN SHAW BRYERS (B.A. 1897), rector of Bowers Gifford, Essex, died 15 January 1945, aged 69.

CHARLES EDWARD BYLES (B.A. 1895), of Gerrards Cross, sub-editor of the *Illustrated London News* and *Sketch* from 1908 to 1938, died 15 July 1944, aged 70. He was a son-in-law of 'Hawker of Morwenstow' whose *Life and Letters* he published in 1905.

ARCHIBALD PRESTON CAMERON (B.A. 1894), died 17 January 1945 at Marston Green, Birmingham, aged 72. Two of his brothers, John Alexander Cameron (B.A. 1891) and Walter Evan Cameron (B.A. 1893) were also of St John's.

HENRY HERMANN CARLISLE (B.A. 1885), formerly Moderator, Congregational Union of England and Wales, died 14 June 1945, aged 81.

GRAHAM HUNT CASTLE (B.A. 1906), formerly vicar of St Agnes, Kennington Park, and for 14 years general secretary of the Gloucestershire Rural Community Council, died 8 May 1945 at Clifton, Bristol, aged 60.

THOMAS HANCOCK ARNOLD CHAPLIN (B.A. 1886), M.D., F.R.C.P., Harveian librarian at the Royal College of Physicians, died 18 October 1944 at Bedford, aged 80.

HAROLD CHAPPLE (B.A. 1904), M.Chir., senior obstetric surgeon and gynaecologist to Guy's Hospital, died 8 March 1945 at 42 Orchard Court, W. 1, aged 63.

ALFRED ROBERT CHARTERS (B.A. 1887), formerly headmaster of preparatory schools at Edgbaston and St Leonards, died 15 September 1944 at Westerleigh, Wadhurst, aged 79.

PAUL ROGERS CLEAVE (B.A. 1887; father of W. P. O. Cleave, B.A. 1933), headmaster of Llandaff Cathedral School from 1906 to 1912, and vicar of Hempstead, Norfolk, from 1925 to 1931, died 12 January 1945, aged 78.

JOHN COLLIN (B.A. 1887), solicitor, of the firm Francis and Company, Peas Hill, Cambridge, died 20 August 1944 at Saunton, North Devon, aged 77. He was a prominent member of the Lady Margaret Boat Club, stroking the First May Boat in 1886 and 1888, rowing bow in 1887, and stroking the eights which won the Thames Cup and the Ladies' Plate at Henley in 1888.

ARTHUR GEORGE COOKE (B.A. 1889), of Kilburn, died 10 November 1945, aged 78.

Sir CLEMENT KINLOCH COOKE (B.A. 1878), Baronet, died 8 September 1944 at Wimbledon, aged 89. He was a well-known figure in journalism and politics, founding and editing *The Empire Review*, and representing Devonport in Parliament from 1910 to 1923. He was knighted in 1905, made a K.B.E. in 1919, and created a baronet in 1926.

EBENEZER HUNT COOKE (B.A. 1884), M.B., B.Chir., died 28 March 1946 at Hendon, aged 82.

ARTHUR CHARLES CRICK (B.A. 1878), vicar of Pennington, Hampshire, from 1892 to 1929, died 2 August 1944 at Worthing, aged 88.

JOHN FREDERICK HALLS DALLY (B.A. 1898), M.D., M.R.C.P., died 4 November 1944 at 93 Harley Street, W. 1, aged 67.

LEONARD GEORGE DOBBS (B.A. 1923), died 2 March 1945, aged 43.

WILLIAM HENRY DODD (B.A. 1883), assistant master at Whitgift Grammar School, Croydon, from 1886 to 1921, died 18 May 1945 at Sutton, aged 85.

ERNEST JAMES DODGSHUN (B.A. 1902), honorary secretary of the National Adult School Union, of Ilkley, Yorkshire, died 24 August 1944, aged 68, while attending a Summer School at St Briavels, Gloucestershire.

HENRY CHARLES DODSON (B.A. 1884), of Crouch End, London, died 18 November 1944, aged 85.

ARTHUR TUDOR EDWARDS (B.A. 1911), M.D., M.Chir., F.R.C.S., died 25 August 1946 at St Enodoc, Cornwall, aged 56.

ARTHUR CREYKE ENGLAND (B.A. 1894), late Archdeacon of York, died 30 September 1946 at York, aged 74.

JOHN ALBERT FEWINGS (B.A. 1909), headmaster of St Andrew's School, Meads, Eastbourne, died 24 February 1946, aged 58.

REGINALD HENRY CASTLE FITZHERBERT (B.A. 1872), rector of Somersal Herbert, Derbyshire, from 1885 to 1913, died 8 April 1946 at Darley Dale, aged 96.

MATTHEW FORSTER (B.A. 1897), of Forster's Bishop Middleham Brewery, co. Durham, died 5 October 1944, aged 68.

HENRY ALEXANDER FRANCIS (B.A. 1886), for many years in practice as an asthma specialist in Wimpole Street, died at West Hoathly, Sussex, 13 August 1944, aged 81. He rowed in the Lady Margaret First May Boat in 1884 and 1885, and obtained his Trial Cap in 1886. His son, Clement Alexander Francis (B.A. 1921), also a prominent member of the L.M.B.C., is an ear, nose and throat surgeon.

Sir HENRY JOHN GAUVAIN (B.A. 1902), M.D., F.R.C.S., specialist in tuberculosis, died 19 January 1945 at Morland Hall, Alton, Hampshire, aged 66.

JOHN KEY DURANCE GEORGE (*Matric.* 1945) died 11 April 1946 at Cambridge, aged 21. He was elected Scholar of the College in December 1941, but joined the Army, being commissioned in the 27th Lancers in 1943. He served in the Middle East, and was released in October 1945.

THOMAS GILLESPIE (B.A. 1897), M.B., B.Chir., formerly in medical practice in Southampton, died 16 September 1944 at Havant Hospital, aged 68.

HARRY GODDARD (B.A. 1902), formerly mathematical master at Nottingham High School, died 20 April 1946 in Addenbrooke's Hospital, Cambridge, after an operation, aged 65.

NORMAN GREEN (B.A. 1909), assistant master at Acton County School, died 30 December 1944, aged 57. He left a sum of money to the College to buy a piece of furniture for the Combination Room.

WILLIAM GREENSTOCK (B.A. 1887), assistant master at Malvern College from 1892 to 1928, died 13 November 1944 at Lords and Ladies, Dogmersfield, Basingstoke, aged 79.

FRANCIS LEY GWATKIN (B.A. 1899), vicar of Moulsoford, Berkshire, formerly rector of Souldern, Oxfordshire, died 16 September 1946, aged 69.

RALPH RADCLYFFE HALL (B.A. 1888), assistant to the Professor of Chemistry and Agricultural Science, Barbados (Professor J. P. D'Albuquerque, B.A. 1889), from 1892 to 1928, died 17 April 1943 in a Bournemouth nursing home, aged 77.

ERNEST HALL HALL-CRAGGS (B.A. 1884, as Craggs), member of the Institution of Civil Engineers and of the Institution of Naval Architects, formerly a prominent member of the Lady Margaret Boat Club, died 17 July 1946 at Reading, aged 82.

NATHANIEL BISHOP HARMAN (B.A. 1897), F.R.C.S., ophthalmic surgeon, of Larksfield, Crockham Hill, Kent, died 13 June 1945, aged 76.

THOMAS LINDGREN HARRISON (B.A. 1889) died 26 March 1946 at Ware, Hertfordshire, aged 80.

FRANK ARTHUR HEPWORTH (B.A. 1900), M.B., F.R.C.S., died 5 November 1944 at Saffron Walden, aged 65.

HENRY VALENTINE HOCKIN (B.A. 1886), assistant master at Swansea Grammar School from 1899 to 1920, died 10 March 1945 at Swansea, aged 81.

CHARLES LEONARD ISAAC (B.A. 1899), M.B., F.R.C.S., Edinburgh, surgeon, of Swansea, died 6 November 1944 at Machen Lodge, Sketty, Swansea, aged 67.

JEHANGIR COWASJI JEHangir (B.A. 1934), elder son of Sir Cowasji Jehangir (B.A. 1901), died 23 October 1944 in London, as the result of a street accident, aged 32.

THOMAS JOHNSON (Mus.B. 1887), for 56 years organist of Christ Church, Summerfield, Birmingham, died in May 1945, aged 84.

FRANCIS SAMUEL JONES (*Matric.* 1897), M.R.C.S., L.R.C.P., died 23 July 1946 at Umzinto, Natal, aged 67.

WALTER ANTHONY JONES (B.A. 1870), rector of Pedmore, Worcestershire, from 1879 to 1913, died 10 January 1946 at Saul, Gloucestershire, aged 98.

AUGUSTUS KAHN (B.A. 1889), formerly headmaster of the County Secondary School, Holloway, London, died 16 September 1944 at Hampstead, aged 76.

JOHN NORMAN KING (B.A. 1935), A.M.I.M.E., died in October 1942 from an accident in Manchester, aged 29.

WILLIAM ANDREWS LAMB (B.A. 1894), rector of Desertserges, co. Cork, and canon of Cork Cathedral, died in October 1944, aged 71.

FRANCIS JOSEPH DE LANDA (*Matric.* 1922) died 2 December 1944 at Mexico City, aged 41.

ALBERT PENARD LAYCOCK (B.A. 1898), a medical missionary in China from 1905 to 1911, and afterwards in practice in South-west London, died 5 September 1944 at Fulham, aged 66. His father and two of his sons have been members of the College.

RONALD SAMUEL MANN LEES (B.A. 1942), flying officer, R.A.F., son of the late Professor S. Lees (B.A. 1909), formerly Fellow, died 6 August 1944 after a short illness brought on by war-work, aged 24.

WALTER PATTESON LEGG (B.A. 1888), chaplain at Vevey, Switzerland, since 1921, died 10 February 1946 at Vevey, aged 79.

TOM LISTER (B.A. 1909), C.I.E., late Indian Civil Service, died 26 March 1945, aged 57.

LANCELOT HAROLD LUDDINGTON (B.A. 1897), formerly of The Chantry, Ely, died 20 March 1945 at Wokingham, Surrey, aged 79.

JOHN LUPTON (B.A. 1891), formerly Fellow, for many years headmaster of King Henry VIII School, Coventry, died 9 July 1946 at Tansor, near Peterborough, aged 77.

SYDNEY GRAY MACDONALD (B.A. 1902), F.R.C.S., a specialist in diseases of the genito-urinary organs, died 20 February 1946 at University College Hospital, aged 66.

ALBERT SAMUEL MANNING (B.A. 1886), formerly of Newmarket, died 2 April 1945 at Cirencester, aged 81.

BERTIE EDWARD MATTHEWS (B.A. 1887), formerly secretary of St Mary's Hospital Medical School, died 25 August 1946 at St Mary's Hospital, aged 79.

JOHN CHARLES MATTHEWS (B.A. 1897), a distinguished bacteriologist, died 25 May 1946 at 20 Wimpole Street, W. 1, aged 73.

WILLIAM NAWTON MAW (B.A. 1891), formerly of the Indian Civil Service, died 13 June 1946 at Swalecliffe, Kent, aged 76.

OTTO MAY (B.A. 1900), M.D., F.R.C.P., died 15 August 1946, aged 67.

STANLEY MAXWELL (B.A. 1897), headmaster of Manor House School, Clapham, and secretary of the College of Preceptors, died 20 September 1944 at Surbiton, aged 69. Manor House School was founded in 1875 as a private school by Dr Frederick Charles Maxwell (of St John's, B.A. 1870; see *Eagle*, xx, pp. 574-6), father of Mr S. Maxwell, who succeeded to the headmastership on his father's death in 1898. Two sons are also members of the College.

THOMAS FRANCIS ROBERT McDONNELL (B.A. 1898), barrister at law, formerly of Rangoon, Burma, died 12 June 1946 in London, aged 70.

CYRIL DENZIL NUGENT MEARES (*Matric.* 1921), Brigadier, died 15 December 1944 at Nairobi, Kenya Colony, aged 46.

VERNON HENRY MELLOR (*Matric.* 1879), honorary colonel, Sherwood Foresters, died 20 April 1945 at Chelsea, aged 84.

CHARLES STEWART MIDDLEMISS (B.A. 1882), C.I.E., F.R.S., superintendent of the Geological Survey of India from 1895 to 1917, died 11 June 1945, aged 85.

FRANCIS GARDEN MITCHELL (B.A. 1884), vicar of Hormead 1913-23, rector of Alburgh, Norfolk, 1923-31, died 2 July 1944 at St Albans, aged 82.

JAMES CECIL MOTTRAM (*Matric.* 1905), M.B. London, director of the Research Laboratory, Mount Vernon Hospital, Northwood, died 4 October 1945 at Northwood, aged 65.

MATTHEW MULLINEUX (B.A. 1896), until recently vicar of Marham, King's Lynn, died 13 February 1945, aged 77.

THOMAS MILLER NEATBY (B.A. 1888), M.D., M.R.C.S., L.R.C.P., died 30 September 1944 at Poole, Dorset, aged 78.

BENJAMIN NOAKS (B.A. 1888), of Bloemfontein, Orange Free State, died 15 April 1946 at Dunskey, Portpatrick, Wigtownshire, aged 80.

THOMAS WILSON PARRY (B.A. 1887), M.D., F.S.A., died 21 September 1945 at Highgate, aged 79.

JOHN LEWIS ALEXANDER PATON (B.A. 1886), formerly Fellow, high master of Manchester Grammar School from 1903 to 1924, died 28 April 1946 at Beckenham, Kent, aged 82.

THOMAS LESLIE FOULKES ROBERTS (B.A. 1929), master at Lockers Park Preparatory School, Hemel Hempstead, Hertfordshire, died 8 September 1945 from a motor accident, aged 40.

REGINALD MURRAY SAMSON (B.A. 1876), priest, headmaster of Hawkeshead Grammar School from 1883 to 1909, died 19 June 1946 at Oxford, aged 92.

JAMES RALPH SCHOLFIELD (B.A. 1889), formerly vicar of Bourton with Silton, Dorset, died 21 July 1945 at Chatham, aged 78.

ERNEST LEOPOLD SCOTT (B.A. 1901), barrister-at-law, died 13 September 1944 at Putney, aged 65.

CHARLES SWANN SHEILD (B.A. 1875), barrister-at-law of Lincoln's Inn, died 21 January 1945 at St Charles Hospital, London, aged 92.

CHARLES PEAT SHEPPARD (B.A. 1885), vicar of Clifton-on-Dunsmore with Brownsover, Warwickshire, from 1896 to 1904, died 29 July 1945 at Wesley House, Bourton, Dorset, aged 81.

GEORGE ERNEST SMITH (B.A. 1915), assistant master at Wilson's Grammar School, Camberwell, and chess editor of *The Field*, died 17 July 1946, aged 53.

HENRY STOKES (*Matric.* 1867), Assistant Admiralty Registrar from 1904 to 1939, died 16 October 1944 at Lewisham, aged 95.

WALTER RONDEL LE SUEUR (B.A. 1892), formerly a master at Downside School, died 21 May 1946 at Blandford, aged 78.

WILLIAM ORMOND SUTCLIFFE (B.A. 1880), Canon of Westminster Cathedral, formerly Rector of St Edmund's House, Cambridge, died 16 November 1944, aged 88.

DONALD GEORGE SUTHERLAND (B.A. 1901), late senior bacteriologist, Metropolitan Water Board, died 10 January 1946 at Ealing, aged 82.

ROBERT OSWALD PATRICK TAYLOR (B.A. 1899), vicar of Ringwood, Hampshire, and formerly Provost of Cumbrae, died 14 December 1944 at Ringwood Vicarage, aged 71.

WILLIAM MARSHALL TEAPE, B.D. (B.A. 1885), vicar of South Hylton, Sunderland, from 1900 to 1922, died 1 November 1944 at Bournemouth, aged 82.

ALAN WATSON THOM (B.A. 1944), of the Royal Aircraft Establishment, Farnborough, was killed 27 April 1945 in an air accident, aged 21.

HERBERT THOMPSON (B.A. 1878), for 50 years music and art critic of the *Yorkshire Post*, died 6 May 1945 at Leeds, aged 88.

WILLIAM HALLIDAY THOMPSON (*Matric.* 1887), vicar of Winkfield, Berkshire, and Gresham Professor of Divinity, died 13 February 1945 at Crawley, Sussex, aged 80.

RICHARD THORMAN (B.A. 1882), formerly vicar of Christ Church, Skipton-in-Craven, died 7 February 1946 at Harrogate, aged 86.

GEORGE ARTHUR TOMLINSON (*Matric.* 1906), D.Sc. London, a Principal Scientific Officer in the Metrology Division of the National Physical Laboratory, Teddington, died 1 December 1944, aged 59.

JOHN HOWARD TOWLE (B.A. 1900), formerly Director-General of Education for the North West Frontier Province of India, died 31 July 1946 at Stamford, aged 67.

THOMAS GEORGE TUCKER (B.A. 1882), formerly Fellow, Professor of Classical and Comparative Philology in the University of Melbourne, Victoria, died 24 January 1946 in Devon, aged 86.

GEORGE JAMES TURNER (B.A. 1889), F.B.A., barrister-at-law, who edited Year-Books for the Selden Society, died 14 June 1946 at Surbiton, aged 78.

CUTHBERT FRANK TYRRELL (B.A. 1903), late rector of Freshwater, Isle of Wight, died 30 December 1945 at St Ives, Cornwall, aged 69.

CHARLES BRAITHWAITE WALLIS (B.A. 1919), Envoy Extraordinary and Minister Plenipotentiary to the Republics of Panama and Costa Rica from 1923 to 1931, died 4 August 1945 in Cambridge, aged 72.

HARRY WARD (B.A. 1885), honorary canon of York, vicar of Appleton-le-Street with Amotherby, from 1893 to 1934, died 1 September 1944 at Thornton-le-Dale, Yorkshire, aged 83.

GERARD TARVER WHITELEY (B.A. 1895), solicitor, died 10 October 1944, aged 71.

HENRY LONGLEY WOFFINDIN (B.A. 1896), rector of Great Gonerby, Grantham, since 1917, died 27 January 1945 at Grantham Hospital, aged 70.

ARTHUR CHORLEY WOODHOUSE (B.A. 1876), formerly vicar of Pampisford, Cambridgeshire, died 19 August 1944 at Bournemouth, aged 90.

ROLL OF HONOUR

STANLEY ERNEST ARGYLE (elected Sizar 1943), lieutenant, Coldstream Guards, killed in action in France, September 1944.

JOHN DICKSON ARMSTRONG (*Matric.* L. 1943), sub-lieutenant, R.N.V.R., missing presumed killed, in H.M.S. *Goodall*, April 1945.

WILLIAM BONSEY (B.A. 1933), chaplain, R.N.V.R., missing in H.M.S. *Gloucester* 22 May 1941, officially presumed to have lost his life on active service (April 1945).

STEPHEN DION BOOTH (*Matric.* 1942), flying-officer, R.A.F.V.R., missing believed killed after a collision during air operations off the South Burma coast, December 1944.

COLIN CAMPBELL (admitted 1942, but did not reside), lieutenant, Scots Guards, died 17 February 1945 of wounds received in action in North-West Europe, aged 20.

ALBERT WHITE CHESHIRE (*Matric.* 1939), captain, Royal Artillery, died in India, 29 November 1944.

JOHN DIVER (B.A. 1933), captain, R.A.M.C., died of beriberi at Changi Prisoner of War Hospital, Singapore, 29 May 1945, aged 33.

ALLEN PAUL DRINKWATER (B.A. 1931), lieutenant, R.N.V.R., killed 18 February 1945 at Lagos, while attempting to save life, aged 26.

JOHN RONALD GILLESPIE (*Matric.* 1942), pilot officer, R.A.F., officially presumed killed in action 7 October 1944.

GEOFFREY JOHN CARDROSS GRANT (*Matric.* 1942), flight-sergeant, R.A.F.V.R., killed in action in March 1945.

CHARLES JOHN SANDERS GREEN (B.A. 1941), surgeon-lieutenant, R.N.V.R., was reported missing presumed killed in October 1944.

DONALD GEORGE ROBERT HARVEY (*Matric.* 1937), lieutenant, killed in action August 1944.

HAROLD JOHN HAYGARTH (Scholar, B.A. 1939), lieutenant (E), R.N.V.R., reported missing, presumed killed on active service, 12 December 1943.

GRAHAM KENRICK HIGGINSON (admitted 1944, but did not reside), 6th Battalion Royal Welsh Fusiliers, killed in action in North-West Europe, 1 October 1944.

FREDERICK BERNHARD S'JACOB (B.A. 1930), lieutenant, Netherlands Army, killed at Dordrecht, 14 May 1940.

DAVID KENNETH JOHNSTON (*Matric.* 1939), lieutenant, Durham Light Infantry, attached Devon Regiment, 6th Airborne Division, killed in action in March 1945.

TRISTRAM GUY HAMMETT KIRKWOOD (B.A. 1936), major, Royal Engineers, killed in action in Western Europe, November 1944.

CHARLES WILLIAM LAING (*Matric.* 1942), second lieutenant, East Riding Yeomanry, died of wounds in October 1944, aged 20.

GEORGE MANNERS LAMB (*Matric.* 1943), killed in action at the Rhine Bridgehead, 28 March 1945, aged 19.

JOHN VICTOR LINDBERGH (*Matric.* 1938), killed in action March 1943, while serving with the South African Air Force.

GEORGE HAROLD MAY (*Matric.* E. 1941), first Airborne Division, missing at Arnhem.

IAN ORMISTON MEIKLE (B.A. 1941), lieutenant, Royal Artillery, First Airborne Division, killed in action at Arnhem, September 1944.

WILFRID EARLE NIXON (B.A. 1937), squadron-leader, R.A.F.V.R., killed on active service, August 1944.

BRIAN HATHERLEY PEAR (*Matric.* 1938), lieutenant, Westminster Dragoons, killed in action in North-West Europe in November 1944.

HUGH HAROLD PERCY (*Matric.* 1938), flight-lieutenant, R.A.F., missing, presumed killed, May 1944.

DONALD MICHAEL ROBERTS (elected choral student 1940, but did not reside), flying officer, Bomber Command, R.A.F.V.R., killed on air operations in April 1945, aged 23.

STEPHEN CHARLES ROOD (B.A. 1940), lieutenant, 8th Battalion Durham Light Infantry, killed in action in Belgium, 9 September 1944.

CHARLES LESLIE ROSENHEIM (B.A. 1933), major, The Welch Regiment, killed in action in Western Europe, February 1945.

JOHN EDWARD STURT (B.A. 1932), lieutenant, 1st Indian Heavy Anti-Aircraft Regiment, Royal Artillery, presumed to have lost his life on the way to New Guinea from Singapore, after 18 October 1942 (20 November 1945).

WILLIAM SMALLEY TAYLOR (B.A. 1933), lieutenant, The Queen's Bays, killed in action in Libya, 27 June 1942.

JACK HAROLD VINES (*Matric.* 1942), flying-officer, R.A.F., killed over Hamburg, 26 April 1945.

RALPH OSLER WEBSTER (*Matric.* 1941), flight-lieutenant, R.A.F., killed in a flying accident in February 1945.

NORVAL MURRAY WILSON (B.A. 1939), captain, Royal Artillery, died of wounds received in action in Burma, 25 February 1945.

Prisoners of War

MICHAEL ALISON GLOVER (*Matric.* 1940), captain, The Sherwood Foresters, previously reported missing, was later officially reported prisoner of war in Germany.

GEOFFREY EDWIN SMART (B.A. 1941), wireless operator, R.A.F., taken prisoner in Java about February 1942.

Decorations

The O.B.E. has been awarded to Captain P. J. LEWIS (B.A. 1906).

The Distinguished Flying Cross has been awarded to Wing-Commander G. J. C. PAUL (B.A. 1929).

RONALD ORMISTON MURRAY (B.A. 1935), major, R.A.M.C., awarded the M.B.E. (1945.)

The M.B.E. (military division) has been awarded to Major B. H. PRICE (B.A. 1935), R.A.M.C. (February 1946.)

The Croix de Guerre has been awarded to Captain R. R. THORNTON (B.A. 1935), Royal Artillery. (April 1945.)

PAUL JOHN REGINALD DAVIS (B.A. 1936), captain, R.A.M.C., awarded the M.B.E. (1945.)

The M.C. has been awarded to Captain A. N. RHODES (B.A. 1937), Royal Artillery. (April 1945.)

The O.B.E. has been awarded to Lieutenant-Colonel T. G. WILSON (B.A. 1937).

The Distinguished Flying Cross has been awarded to Flight-Lieutenant P. F. MALLENDER (*Matric.* 1938). (2 January 1945.)

JOHN ARUNDEL BARNES (B.A. 1939), lieutenant-commander, R.N.V.R., Fleet Air Arm, awarded the D.S.C. (January 1944.)

The Distinguished Service Cross has been awarded to Lieutenant (E) H. G. HILTON (B.A. 1939), R.N. (June 1946.)

Acting-Squadron-Leader R. E. CURTIS (Admitted 1940) has been awarded a bar to his Distinguished Flying Cross. He has also been awarded the D.S.O.

THE LIBRARY

Donations and other additions to the Library during the year ending Midsummer 1945.

DONATIONS

(* The asterisk denotes a past or present Member of the College.)

From the President.

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<i>Archaeologia Aeliana</i> . 4th ser. vol. xxii.	1944.
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From Professor Anderson.

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 translated. Lond. 1659.

From Professor Baker.

*BAKER (H. F.). *Geoffrey Thomas Bennett*,* 1868-1943. (Repr. from
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From the Rev. P. B. G. Binnall.

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English and French.] Nos. I, II. 1773-4.

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money upon the estates of the South-Sea Directors.* 2nd edn. 1721.

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- English studies, The year's work in, 1943*.
- KLUGE (F.). *Etymologisches Wörterbuch der deutschen Sprache*. Bearbeitet von A. Götze. 1943.
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- SHAKESPEARE. *Variorum edition. Henry the Fourth; The Poems; The Sonnets, part II*. Philadelphia, 1938-44.

MORAL SCIENCES

- COLLINGWOOD (R. G.). *An essay on metaphysics*. (Philosophical essays. Vol. II.) 1940.
- ZILBOORG (G.) and HENRY (G. W.). *A history of medical psychology*. New York, 1941.

NATURAL SCIENCES

- Chemistry, Annual reports on the progress of, 1944*.
- GUNTHER (R. T.), ed. *Early science in Oxford*. Vol. XIV. *Life and letters of Edward Lhwyd*. 1945.
- GUTHRIE (D.). *A history of medicine*. 1945.
- Nautical almanac and astronomical ephemeris for 1946 and 1947*.

THEOLOGY AND CHURCH HISTORY

- ARMAGH. *The Register of John Swayne, Archbishop of Armagh and Primate of Ireland, 1418-39*. Ed. by D. A. Chart. (N. Ireland Record publ.) 1935.
- BEDE. *Opera de temporibus*. Ed. by C. W. Jones. (Mediaeval Acad. of America.) 1943.
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- CABROL (F.). *Dictionnaire d'archéologie chrétienne et de liturgie*. Fasc. 158/9 (Portier-Rabula). 1940.
- Canterbury. *William Thorne's Chronicle of Saint Augustine's Abbey, Canterbury*. Engl. transl. by A. H. Davis, with a preface by A. Hamilton Thompson*. 1934.
- Canterbury and York Society. *Rochester diocese. Registrum Hamonis Hethe*. Pt. 9. 1945.
- Chichester. *The Chartulary of the High Church of Chichester*. Ed. by W. D. Peckham. (Sussex Record Soc.) [1946.]
- EYRE (E.), ed. *The Reformation*. (European civilization. Vol. IV.) 1936.
- GREEN (V. H. H.). *Bishop Reginald Pecock. A study in ecclesiastical history and thought*. 1945.
- PHILLIPS (C. H.). *The singing church. An outline history of the music sung by choir and people*. 1945.

The following books have been bought for the Reading Room

- AMES (J. S.) and MURNAGHAN (F. D.). *Theoretical mechanics, an introduction to mathematical physics*. Boston, Mass. (1929).
- BATES (L. F.). *Modern magnetism*. 1939.
- BEMIS (S. F.). *A diplomatic history of the United States*. Revised edn. New York (1942).
- COMMAGER (H. S.), ed. *Documents of American history*. 3rd edn. New York (1943: repr. 1946).
- CORNER (G. W.). *Ourselves unborn. An embryologist's essay on man*. New Haven (1944: repr. 1945).
- COTTON (C. A.). *Climatic accidents in landscape-making*. Christchurch, N.Z., 1942.
- *Volcanoes as landscape forms*. Christchurch, N.Z., 1944.
- DANA (J. D.) and (E. S.). *The system of mineralogy*. 7th edn. Vol. I. New York (1944: repr. 1946).

- ELLES (G. L.). *The study of geological maps.* (2nd edn.) 1931.
 EVERITT (W. L.). *Communication engineering.* 2nd edn.
 New York, 1937.
 GREGORY (E.) and SIMONS (E. N.). *Steel manufacture simply explained.*
 3rd edn. (1944: repr. 1946.)
 GRUNDY (R. H.). *The theory and practice of heat engines.*
 (1942: repr. 1945.)
 HOLMES (A.). *Principles of physical geology.* (1944: repr. 1945.)
 HUXLEY (JULIAN). *Evolution; the modern synthesis.* (1942: repr. 1945.)
 JAMES (P. E.). *Latin America.* [1942.]
 JOHNSON (R. E.). *Atomic spectra.* (1946.)
 JONES (L. R.) and BRYAN (P. W.). *North America.* 7th edn., revised.
 (1946.)
 KÁRMÁN (T. v.) and BIOT (M. A.). *Mathematical methods in engineering.*
 1940.
 LAMB (Sir HORACE). *The dynamical theory of sound.* 2nd edn. 1931.
 MCKAY (R. F.). *The theory of machines.* 2nd edn. (1920: repr. 1946.)
 MANN (W. B.). *The cyclotron.* 2nd edn. (1945.)
 OATLEY (C. W.). *Wireless receivers.* 1932.
 OWEN (D.). *Alternating current measurements.* 2nd edn., revised.
 (1946.)
 PARRINGTON (V. L.). *Main currents in American thought.* 3 vols.
 (bound in 1). New York (1927, 1930).
 PARTINGTON (J. R.). *General and inorganic chemistry...* 1946.
 PAULING (L.) and WILSON (E. B.). *Introduction to quantum mechanics
 with applications to chemistry.* New York, 1935.
 PAULLIN (C. O.). *Atlas of the historical geography of the United States.*
 Ed. by J. K. Wright. New York, 1932.
 PIERCY (N. A. V.). *A complete course in elementary aerodynamics.*
 (1944.)
 REICH (H. J.). *Theory and application of electron tubes.* 2nd edn.
 New York, 1944.
 RUTHERFORD (D. E.). *Vector methods.* 4th edn. 1946.
 SCHRÖDINGER (E.). *Statistical thermodynamics.* 1946.
 SLATER (J. C.) and FRANK (N. H.). *Introduction to theoretical physics.*
 New York, 1933.
 STEEDS (W.). *Mechanism and the kinematics of machines.*
 (1940: repr. 1945.)
 TAYLOR (A. J. P.). *The course of German history. A survey... since
 1815.* (1945.)

- THOMSON (M. A.). *A constitutional history of England, 1642 to 1801.*
 1938.
 TIMOSHENKO (S.). *Theory of elasticity.* New York, 1934.
 TOFT (L.) and KERSEY (A. T. J.). *Theory of machines.* 5th edn.
 (1943: repr. 1944.)
 VERAAT (J. A.). *Holland.* [1944.]
 WALSHAW (A. C.). *Heat engines.* (2nd edn.) (1944: repr. 1946.)
 WELLS (A. F.). *Structural inorganic chemistry.* 1945.
 WOOD (A.). *Acoustics.* (1940: repr. 1943.)
 WOODS (H.). *Palaeontology invertebrate.* 8th edn. 1946.

A number of books on History, which were in the Library, have been duplicated in the Reading Room.

COLLEGE AWARDS

STUDENTSHIP, 1945

Baylis: Ds Moran, P. A. P.

SCHOLARSHIPS AND EXHIBITIONS, 1945

Elected to Scholarships: Broomhead, I. W., Burke, A. E., Lavery, H., Munir, M. N., Sewell, A. D., Taylor, G. W., Wernham, J. C. S.

Elected to Exhibitions: Cussins, W. D., Poulter, D. R., Williams, K. S.

PRIZES, 1945

SPECIAL PRIZES

Essay Prizes: (Second Year) Barraclough, P., Glasgow, E. G. H. (*Aeq.*); (First Year) Sutcliffe, P. H.; *Reading Prizes:* Farr, P. J., Tomlinson, R. C., Wilkie, J. R. (*Aeq.*); *Hart Prize:* Godwin, W. H.; *Henry Humphreys Prize:* Ds Livesey, D. L.; *Hockin Prize:* Scott, P.; *Hutton Prize:* Godwin, W. H.; *Newcome Prize:* Elliott-Binns, C. P. E.; *Sir Joseph Larmor Awards:* Barraclough, P., MacLeod, J. W., Owen, D. N. H., Trapnell, B. M. W., Wilkie, J. R.

PRIZES AWARDED ON UNIVERSITY EXAMINATIONS

MATHEMATICS—Tripos Part II: Cockayne, A. H., *Wright's Prize*; Manning, J. R.; Shaw, D. C.; Tomlinson, R. C. *Tripos Parts II and III:* Haymann, W. K., *Earle Prize.*

NATURAL SCIENCES—*Preliminary Part I* (First Year): Barron, J., *Wright's Prize*; Duce, A. G.; Jenkins, D. P., *Wright's Prize*; Nock, W.; Ratcliff, G. A., *Wright's Prize. Preliminary Part I* (Second Year): Gittins, P. R., *Tripes Part I*: Dingle, R. B., *Wright's Prize*; Hemmings, R. F.; Westlake, E. K., *Hughes Prize. Tripes Part II*: Broomhead, I. W.; Green, G. W.

LAW—*Tripes Part I*: Munir, M. N.

THEOLOGY—*Tripes Part II*: Wernham, J. C. S.

HISTORY—*Tripes Part I*: Lavery, H., *Wright's Prize*.

MODERN AND MEDIEVAL LANGUAGES—*Tripes Part I*: Osborne, G. S.

MECHANICAL SCIENCES—*Preliminary* (Second Year): Burke, A. E., *Wright's Prize*; Cussins, W. D.; Haws, E. T.; Horsfield, W. D., *Wright's Prize*; Jarman, M. V.; Livesley, R. K., *Wright's Prize*; Millar, B.; Millar, W. D.; Newman, B. G.; Poulter, D. R.; Rothwell, R. W.; Shaw, B. W. B.; Taylor, G. W., *Wright's Prize*; Williams, K. S. *Tripes*: Kendon, R. D.; Parkes, E. W., *Earle Prize*; Scott, P., *Wright's Prize*; Sewell, A. D.; Stringer, J.

OPEN SCHOLARSHIPS AND EXHIBITIONS, APRIL, 1945

Major Scholarships:

Cooper, M. G., City of London School, for Mathematics (Strathcona Scholarship). Holding, D. J., Manchester Grammar School, for Mathematics (Baylis Scholarship). Kerruish, N., Hindley and Abram Grammar School, for Mathematics. Ballance, M. H., Oundle School, for Classics. Hay, W., Fettes College, for Classics. Norwood, D. B., Manchester Grammar School, for Classics (Patchett Scholarship). Ashby, M. L., Epsom College, for Natural Sciences. Collinson, R. G., Batley Grammar School, for Natural Sciences. Palfrey, A. J., King Edward VI School, for Natural Sciences. Mossman, D. J., St Paul's School, for History. Blench, J. W., Berwick Grammar School, for English.

Minor Scholarships:

Parrack, C. A., Manchester Grammar School, for Mathematics. Otton, G. J., Christ's Hospital, for Classics. Hepburn, F., Alderman Wood Secondary School, Stanley, for Natural Sciences. White, F., Bede Collegiate School, Sunderland, for Natural Sciences. Wolff, M. J., St Edward's School, Oxford, for History. Holmes, G. A., University College of Wales, Aberystwyth, for History. Salisbury-Rowswell, R. F., University College School, for Modern Languages. Radford, J. C. V., Christ's Hospital, for Modern Languages.

Exhibitions:

Leeming, J. C., Chadderton Grammar School, for Mathematics. Head, K. H., King Edward VI School, Stourbridge, for Mathematics. Harding, G. W., Aldenham School, for Classics. Reeves, J. M., Marlborough

College, for Classics. Jardin, D. W., Morpeth Grammar School, for Natural Sciences. MacRobert, A. E., Glasgow Academy, for History. Hunt, J. C. N., Bedford School, for History. Chapman, R. H. B., Felsted School, for Modern Languages. Nicholson, R. K., Hymers College, Hull, for English. Bloch, A., Peter Symonds' School, Winchester, for Biblical Hebrew (Rogerson Exhibition). Cobb, P. G., Bournemouth Secondary School, for the General Examination.

CLOSE EXHIBITIONS, SIZARSHIPS, AND CHORAL STUDENTSHIPS, 1945

To Close Exhibitions:

Baker: Ingham, A. P., Durham School. *Dowman*: Massie, F. A., Pocklington School. *Marquis of Exeter*: Jeeves, M. A., Stamford School. *Lupton and Hebblethwaite*: Mylne, C. K., Sedbergh School. *Munsteven*: Mellors, P. H., King's School, Peterborough. *Robins*: Scott, P. H., Sutton Valence School. *Vidalian*: Mackay, G. D., Exeter School.

To Sizarships:

Hills, K. A., County School for Boys, Lewes. Spargo, J. B., Charterhouse.

To Choral Studentships:

Cooper, P. B., Bedford Modern School. Reeves, J. M., Marlborough College. Margetson, J. W. D., Blundell's School, Tiverton.

STUDENTSHIPS, 1946

Strathcona: Marchant, R. B. *Baylis*: Haymann, W. K. *Laski*: Thompson, E. C. *Strathcona Exhibition*: Robinson, R. E.

SCHOLARSHIPS AND EXHIBITIONS, 1946

Elected to Scholarships: Bourne, C. B., Bruce Lockhart, L., Crane, C. D., Cussins, W. D., Espley, W. A., Haws, E. T., Poulter, D. R., Rothwell, R. W., Williams, K. S.

Elected to Exhibitions: Common, D. K., Hall, J. C., Noble, B., Shepherd, R. M. H., Sykes, N. W., Widdell, J. W.

Roger Neville Goodman Exhibitions: Gittins, P. R., Westlake, E. K.

Strathcona Travel Exhibitions: Margetson, J. W. D., Paton Philip, J. S.

Samuel Nunn Exhibition: Shepherd, R. M. H.

Hoare Exhibitions: Schlesinger, W. W. O., Shaw, M. M.

PRIZES, 1946

SPECIAL PRIZES

Essay Prizes (Third Year): Glasgow, E. L. H.; (First Year) Williams, R. H.
Reading Prizes: Pownall, A. J.; Rothwell, R. W., Stokes, R. I. (*Aeq.*);
Henry Humphreys Prize: Ds Hereward, H. G. *Hockin Prize*: Dingle,
 R. B. *Hutton Prize*: Widdell, J. W. *Sir Joseph Larmor Awards*: Crook,
 J. A., Paton Philip, J. S., Robinson, R. E., Salmon, R. G.

PRIZES AWARDED ON UNIVERSITY EXAMINATIONS

MATHEMATICS—*Tripes Part III*: Ds Redfern, P., *Hughes Prize. Tripes Part I*:
 Leeming, J. C., *Wright's Prize*; Schlesinger, W. W. O.; Shaw, M. M.
Preliminary: Cooper, M. G.; Curtis, A. R.; Jackson, A. D.; Kerruish,
 N., *Wright's Prize*; Noble, B.; Reddi, C. V. K.

CLASSICS—*Preliminary*: Ballance, M. H.; Bambrough, J. R.; Brown, K. D.;
 Norwood, D. B.; Otton, G. J.; Shepherd, R. M. H., *Wright's Prize*.

NATURAL SCIENCES—*Tripes Part II*: Dingle, R. B., *Hughes Prize*; Walters,
 S. M., *Wright's Prize*; Westlake, E. K., *Wright's Prize. Tripes Part I*:
 Barron, J., *Wright's Prize*; Jenkins, D. P., *Wright's Prize*; Ratcliff, G. A.,
Wright's Prize. Preliminary Part I: Ashby, M. L., *Wright's Prize*;
 Collinson, R. G.; Gregory, E.; Hepburn, F.; Moody, B. J.; Rayner, L. S.;
 Seale, J. R.; Tyler, G. J.; Waterhouse, D. F.; White, F.

THEOLOGY—*Tripes Part I. Section B*: Lindars, F. C.

LAW—*Tripes Part II*: Espley, W. A.; Munir, M. N. *Qualifying I*: Hall, J. C.
LL.B.: Bourne, C. B., *Wright's Prize*.

HISTORY—*Tripes Part II*: Crane, C. D.; Lavery, H. *Preliminary*: Molland,
 R.; Widdell, J. W.

MODERN AND MEDIEVAL LANGUAGES—*Preliminary* (Second Year): Bruce
 Lockhart, L., *Wright's Prize. Preliminary* (First Year): Nicholson, D. H.

MECHANICAL SCIENCES—*Tripes Part I*: Burke, A. E., *Wright's Prize*; Cussins,
 W. D.; Haws, E. T.; Horsfield, W. D., *Wright's Prize*; Livesley, R. K.,
Earle Prize; Millar, B.; Newman, B. G., *Wright's Prize*; Poulter, D. R.;
 Rothwell, R. W.; Shaw, B. W. B., *Wright's Prize*; Taylor, G. W.,
Wright's Prize; Williams, K. S. *Preliminary* (First Year): Cook, C. W.;
 Stevenson, K. M. *Preliminary* (Second Year): Adye, A. M.; Bates,
 E. W.; Common, D. K.; Jardin, D. W.; Nicholson, E. H.; Smith, R. E.;
 Sykes, N. W.

ECONOMICS—*Tripes Part I*: Radford, R. A., *Wright's Prize*.

GEOGRAPHY—*Qualifying*: Cobb, P. G., *Wright's Prize*.

OPEN SCHOLARSHIPS AND EXHIBITIONS,
DECEMBER, 1945*Major Scholarships:*

Kronheimer, E. H., City of Oxford School, for Mathematics (Baylis
 Scholarship). Barker, W. T., Manchester Grammar School, for Classics
 (Patchett Scholarship). Creed, J. L., Marlborough College, for Classics.
 Newton, R. J., Clifton College, for Classics. Ogilvie, D. A., Rugby
 School, for Classics. Gwilt, G. D., Sedbergh School, for Natural
 Sciences. Horridge, G. A., King Edward VII School, Sheffield, for
 Natural Sciences. Lennon, D. C., Bournemouth School, for Natural
 Sciences. Pullan, G. T., Tadcaster Grammar School, for Natural
 Sciences. Reily, D., Handsworth Grammar School, for Natural Sciences
 (Strathcona Scholarship). Ruth, A. B., King's College School, Wimble-
 don, for Natural Sciences.

Minor Scholarships:

Clarke, W. E., Swansea Grammar School, for Mathematics. Jones, H. F.,
 Swansea Grammar School, for Mathematics. Leaton, E. H., Solihull
 School, for Mathematics. Gough, G., Gravesend County School, for
 Natural Sciences. Rowe, P. W., Bishops Stortford College, for History.
 Jackson, F. W. D., Trinity College, Glenalmond, for Modern Languages.
 Butler, R. C., Blackpool Grammar School, for English. Timbrell, D. Y.,
 Thames Valley Grammar School, Twickenham, for English.

Exhibitions:

Bellis, B. T., Kingswood School, for Mathematics. Howe, P. W. H.,
 Arnold School, Blackpool, for Mathematics. Stamp, E., Quarry Bank
 High School, Liverpool, for Natural Sciences. Smith, R. S., Liverpool
 Collegiate School, for History. Whidby, F., Bede Grammar School,
 Sunderland, for History. Henton, G. R. P., Christ's Hospital, for
 Modern Languages. Goodwin, J. C. H., Oundle School, for English.
 Ellis, K. S., King Edward VII School, Sheffield, for the General
 Examination. O'Brien, C. I. M., Bedales School, for the General
 Examination.

CLOSE EXHIBITIONS, SIZARSHIP, AND
CHORAL STUDENTSHIPS, 1946*To Close Exhibitions:*

Baker: Smithson, T. A., Durham School. *Dowman*: Tyreman, A. C.,
 Pocklington School. *Johnson*: Woodhead, A., Uppingham School.
Munsteven: Laxton, R. W., Peterborough Cathedral School. *Somerset*:
 (March) Hammond, J. E., Hereford Cathedral School. *Spalding and*
Symonds: Rood, A. B., King Edward VI School, Bury St Edmunds.
Vidalian: Lindon, D. N., Exeter School.

To a Sizarship:

Cockburn, W. D., Royal Grammar School, Newcastle-upon-Tyne.

To Choral Studentships:

Beers, R. S. R., Christ's Hospital. Lyons, P. S., Alleyns School. Walmsley,
 E. R., Bradford Grammar School.

OBITUARY NOTICE

[Reprinted from *The British Journal of Psychology* (General Section), vol. xxxvi, Part 3, May 1946, pp. 109-16.]

KENNETH J. W. CRAIK, 1914-1945

Between the two wars a small group of British psychologists used to meet twice annually to discuss problems in which they were interested. On one of these occasions I was walking along a country road with Professor James Drever. He said, 'Next term I am going to send you a genius.' That was the first I heard of Kenneth Craik. It was a sufficiently startling introduction, and all the more so because I had long ago learned to have the deepest respect for Professor Drever's judgement about his students.

I then heard a little more about Craik's life, achievements and promise, and it was with the liveliest anticipation that I looked forward to seeing him in October 1936. Vividly I remember that first meeting. He came into my room at the Laboratory and my immediate impression was of a tall, rather powerful, spare frame; a face pale but full of life; a firm chin, straight mouth, singularly attractive dark eyes, and above a shock of black hair. From the beginning he was wholly 'at home', as we say, with any amount of genuine modesty, but not a scrap of false humility. He knew, and within a very few minutes I knew, of the power that was within him. We talked of what he had done, and more of what he would do. He was not then certain of what he would do in detail, for it was one of Craik's outstanding characteristics that there was very little which lay in the line of developing knowledge in which he was not profoundly interested.

At the Edinburgh Academy he had been a classic, and at the University of Edinburgh he had, with great distinction, studied philosophy under Kemp Smith. Professor James Drever has the honour—and a very great honour it is—of being the first to attract and hold him to the systematic study of psychology. But I am sure that all those who took part in his training would agree with me that a great amount of the best preparation for the work he was to do came from a most happy and free home life, which encouraged him to explore every path of opening interest, presented to him the widest possible outlook, and fostered a love of honest thinking. Particularly his holidays with his parents, by motor boat into remote parts of Scotland by sea and river, gave him independence, a capacity to deal with sudden emergencies, both small and large, and much knowledge

of the natural life of flowers and beasts, and of the structure of the earth.

When he came to Cambridge, Kenneth was absolutely certain that psychology was the subject which above all he desired to study, but he was still a little undecided: should he take for his field the higher mental functions, or should he elect to follow the traditional approach through research upon the special senses? He did not hesitate for long—that was his way always when the question was one which concerned a course of action affecting mainly himself. Already, for Professor Drever, he had begun some studies of brightness discrimination and dark adaptation. At Cambridge at that time was a very active group of research students and others at work upon sensorial problems, particularly of hearing. There was also—and this may easily have been the deciding factor—an exceedingly attractive workshop which captured his imagination from the moment at which he entered it. He decided to research on visual problems, and particularly on visual adaptation and after-images.

Thus began three crowded and happy years. There was, I think, nothing in a very busy and contented Department which Kenneth failed to influence and to help. The very first time I met him, out from his waistcoat pocket came his famous working model of an internal combustion engine. Everybody who had any apparatus problems quickly learned to go to Craik for help, and I cannot remember any case of a vain appeal. He worked with extraordinary rapidity, both in devising and in making instruments and gadgets of all kinds.

But, sure of himself as he was, he never, as some people do, thought of himself as beyond the stage of learning. He went to all the courses he could. I think of him as one of the most stimulating students in my own Discussion Classes that I have had the great fortune to know. He broke out of the conventional limits of psychological training. He went to the Cambridge Technical School for a course on plumbing and welding. He did a lot of physiology, and later on, brain anatomy.

His activity was by no means confined to his own immediate topics. He worked with Oliver Zangwill on some problems of Gestalt Psychology. He was ready to be an observer in every experiment. At the Psychological Society he would come in, often a bit late, sit cross-legged on the floor, listen, and then start some lively discussion, sticking to his point with persistence and good humour, and with his wonderful enjoyment of his own jokes, some of which were very good.

In 1940 he obtained the Cambridge Ph.D., and then, a year later, having enlarged his dissertation considerably, he became, at the first attempt, a Fellow of St John's College, which he had joined when he

came to Cambridge. The Thesis was entitled, 'An Experimental Study of Visual Adaptation, and a Discussion of some more general Psychological Problems'. The title was characteristic. There are some people who take a specific problem, answer it, and pass on to something else. Their work may be very good, but it lacks true fruitfulness. Kenneth was not in that class. I do not think he ever did an experiment, however simple and small it may have appeared, which was not informed by some idea which took its issues at once into a wide field of principle. This thesis, which has not yet been published, although it is greatly to be hoped that publication will come before long, is strongly marked by what became one of the leading ideas of all his work, a lively recognition of the interrelation of physical, physiological and psychological problems and issues. Already he was searching for and using physical analogies: 'The eye resembles a multi-range meter. . . . When set to any one range, or adapted to any one illumination, it is sensitive to rapid variations in illumination over a certain range. If it is adapted to a different illumination its whole range of sensitivity is shifted bodily to the new adapting illumination. This 'range-setting' is automatic, since the change in adapting illumination itself occasions it. It accounts for the great precision of the eye in distinguishing small, rapid changes in illumination and its inability to detect slow ones, or to act as an absolute photometer.' At the same time he devised, carried out and discussed a number of new experiments dealing with the transmission and scattering of light by the eye media and with peripheral photochemical and neural processes. Further, he was able to combine all his results into an illuminating general study of adaptation from a psychological point of view proper and of its biological significance.

The dissertation was not fully completed when the war broke out. Kenneth came to me at once to discuss whether he should join one of the Fighting Services, which, for many reasons, he genuinely desired to do. The answer was plain, as he well knew. His very unusual equipment should be put at the service of any authority which needed it, naval, military, air or civilian. For many would need it; and in a very short space of time many did. From 1939 to 1945 it is the simple truth to say that he was a key man in the scientific service of the country.

From the beginning I decided that he should have the fullest independence possible. He would have had it in any case; that I was glad and proud for him to have it made no difference, and never, during these incredibly busy years, did he once fail the trust we had in him, or once take any undue advantage of it. I am sorry, and even a little ashamed, that when I first sent him away, entirely by himself, to discuss some technical psychological problems about the role of

the human operator in the manipulation of certain instruments of war, I wondered a little what sort of a show he would make. I need have had no misgiving and ought to have had none. In these years he was to meet and almost immediately to win the confidence of all sorts and conditions of men, from scientists of international repute in very many different subjects to laboratory assistants and working mechanics; from Admirals, Generals and Air Marshals to ratings, privates and airmen; from leaders in industry to the rank and file of the workers. When he made any definite pronouncement everybody was sure at once that he knew what he was talking about. When he did not know, he never pretended, but was eager and astonishingly quick to learn. And when work was over for a time he was a thoroughly good companion.

The story of how he worked, long, intense, absorbed days and nights; and of what he did, solving all manner of mechanical and electrical problems in his stride and getting at once to the point of his problems in simple but brilliant experiment, cannot here be at all fully told. He was a very active member of the Vision Committee of the Flying Personnel Research Committee; he belonged to the Military Personnel Research Committee, and some of his remarkable work concerned tank equipment; he was an original member and became the Chairman of the Target Tracking Panel of the Ministry of Supply, and was also on its Servo-mechanisms Panel. He wrote many reports, all concise and to the point, and almost all of them containing descriptions of highly original methods and results. Although these papers could not be published, they were widely known and sought after. Many of them carried further the work on vision, dealing with dark adaptation, the use of night photometers, and definitely establishing several of the basic principles in radar display. Others broke new ground in studies of the principles of bodily mechanics, and the physiology and psychology underlying the efficient combination of motor responses in the control of instruments.

One story I should like to record. Kenneth and I had been out to look at some new anti-aircraft equipment. We were being driven back to Cambridge in a light car, by a very accomplished Services chauffeur at what may fairly be called a 'tidy pace'. The roads were greasy. For some time I had been trying to think how the conventional laboratory procedure for the study of fatigue might be supplemented in certain ways, perhaps improved. The common methods, based upon an investigation of simple and relatively isolated muscular and mental processes, seemed to me so devised that practically only three types of result could be recorded accurately: the amount of deterioration of work, checks and spurts in work, and the final

collapse of work. I thought something was needed which would show clearly and exactly how skill, long continued, may change and perhaps disintegrate. So I asked Kenneth whether perhaps it would be possible to design an experimental cockpit, so that the essential control responses of the aircraft-pilot, flying on instruments, could be accurately recorded, if necessary for long periods, and we should know, not only whether less or more work was being done, but also by what changes in the co-ordinated activities these, and other variations, were brought about. He jumped to the idea. He pulled out his wonderful black wallet, stuffed to overflowing with odds and ends of bits of paper, with their jotted notes in a strange handwriting about projected experiments, with dates of engagements seemingly in a terrific muddle, with impromptu drawings of apparatus. He found an available bit of blank space. A diagram began to grow.

We were driving down a steep hill. A car immediately in front suddenly stopped. So did we. We got into a terrific skid, made a right-angled turn and, by a bit of fine emergency control by our driver, came to a full stop with the front wheels of the car cocked high up on a steep bank a few inches from a thick-set hedge and in the hedge a number of uncomfortable looking tree trunks. Kenneth straightened himself up from the side of the car, rubbing a bruised arm. He was grinning happily. This was just what he enjoyed. He went straight on with the job.

The very next day he was in the Laboratory workshop fashioning the experimental controls for the first Cambridge cockpit. The design was his. He and George Drew together did the work. The whole thing was a very brilliant and beautiful application of calculating machine principle to a complex psychological problem. It was built in our own workshop, with slender resources and at trifling cost. It was to stand up to years of hard work, and first by the very expert research of Drew, and later by Dr D. Russell Davis, to open up what may well be a new chapter in experimental psychological development. For not only did it show that 'skill fatigue' is in many ways different from that deterioration which long spells of work may impose upon simple muscular and mental tasks, but also it demonstrated that it is possible to submit highly complex bodily and mental processes to exact and illuminating measurement.

Craik's work was rendered possible by constant and generous support from many different quarters. But above all it was Sir Edward Mellanby and the Medical Research Council who had encouraged it, aided it without stint, and given it the widest opportunities. In 1944 the Medical Research Council agreed, should the University concur, to establish in the Cambridge Psychological Department a unit for Research in Applied Psychology. The offer

was accepted and the unit established forthwith. The idea, the name, and above all the appointment of Kenneth Craik as the first Director of the unit, were all due to Sir Edward Mellanby, to whom psychology in Cambridge already owed more than can be expressed. In spite of all his many other preoccupations Craik found the time to inspire every branch of the work of the unit in the most practical manner, showing an unusual power of leadership.

On 7 May 1945 Kenneth came into my room about 6.30 p.m. to tell me about his movements for the next few days, and to discuss plans. He was full of all the usual enthusiasm. We were to meet at St John's College a little later, for it was the anniversary of St John the Evangelist and the annual dinner, greatly abbreviated because of war conditions, was still held. Soon after the dinner began news came that Kenneth had had an accident. I left the College. It was the eve of V.E. day. Flags were flying, many people pursuing their cheerful plans. Back went my mind like a flash to another public holiday years ago when I had come out of the same College gates into a world at play, knowing that W. H. R. Rivers, whom I had seen not long before full of vigour and plans, was lying dead. I went slowly to the hospital, and learned for certain what it seemed that for certain I knew already. There was nothing at all to be done. Kenneth was unconscious. He could not recover. Consciousness never came back to him, and that was a good thing; for if it had it would have meant pain and distress: these, at least, he escaped.

For the last six years—and they are the only ones I can write of with first-hand knowledge—Craik's life in Cambridge had been a very happy one. I often find myself wondering to what his power and its achievements were due. Partly they were due to an exceptionally acute and quick mind; partly to a controlled but agile imagination which was able to take practical problems, solve them, and at the same time use them in the interests of basic research; partly to a kind of training which gave him wide interests and a capacity for honest thinking, but did not prematurely tie him up in any specialism; partly, paradoxically, to a body that was not naturally very biddable, but which he so far trained that he became a most beautiful craftsman and no mean player of certain quick ball games; partly to a temperament which was appreciative before it was critical, so far as other people were concerned, so that he gave his best to them without reserve and got their best out of them without effort. Kenneth himself constantly acknowledged the fact that much of his success was due to his good fortune in having the most loyal experimental assistance, first from Mrs S. J. Macpherson and then from Miss M. A. Vince, and to his coming into a small group of people all intensely interested in the development of psychological science, and both

critical, and co-operative to an unusual degree. Behind and deeper than all these, and the many other similar influences which made him what he was, there were other things which maybe fewer people had the chance to know.

Happy these years were beyond question; but they had also their difficulties and indecisions, sometimes long and hard to resolve. He took tremendous physical risks, not always necessary ones either, and genuinely enjoyed them. More ordinary things could worry him. He had frequent long journeys, with much discomfort, little chance of food, and social encounters impossible to foresee and nothing whatever to do with the purpose of the journey, which were at times irksome to him. When the journeys were over he would joke about them, but their anticipation sometimes bothered him considerably and put him off his work. Making decisions about personal priorities which could perhaps seriously affect the careers of others he found very difficult, as perhaps most people do who have a wide tolerance for many different ways of thinking and for many different qualities of men. More important still, probably, were certain intellectual conflicts, never wholly settled, some of them with emotional roots deep in his earlier years.

One of these sprang from his outstanding capacity for designing and making instruments of all kinds. He found it hard to refuse any problem which gave him a chance to invent some new piece of apparatus, especially of the mechanical kind. There was a danger in this. He knew that it was to some degree interfering with his interests in basic research. Some of his later work, under the war stress, became in fact a little less rigorous than the earlier and a little less scientifically satisfying. There was a chance that he might find himself caught up in one long swirl of merely *ad hoc* investigations. But all those who knew him best were quite sure that this would not have been a lasting danger.

There was a more stubborn conflict than this one. Like many other people who have achieved striking originality Kenneth was exceedingly suggestible. Receptivity to ideas of all kinds and from all sources may well be one of the most effective conditions in the production of that sort of intellectual ferment out of which new developments arise. In Craik's earlier life most of the strongest influences came from people with profound artistic and humane interests. He gained and kept a love of beauty, particularly in poetry and in music, and treated the human mind as something unique, not capable of adequate expression in terms applicable to anything but itself. Then he came to an environment in which the strongest intellectual stimuli were scientific. Many of the people he knew well and most deeply respected were trying to find mathematical expressions for a large

variety of relations between stimuli and the responses which they set up in animals and human beings. The long-standing psychological controversy about the quantitative nature of sensations fascinated him, and although his own studies in sensory adaptation convinced him that none of the earlier formulae proposed for the expression of this particular relationship between the gradation of stimuli and an accompanying gradation of response was adequate, he hoped and believed that more satisfactory formulae would be found. It may even be the case that his rather sudden switch over from the humanities to natural science led him to exaggerate the differences between the two points of view.

When he was seventeen, Kenneth wrote an essay on Immortality.* It is intended to demonstrate, or at least to declare, that there can be no satisfactory accounting for man's life and mind as if they were machines. The notion that keeps cropping up is that however anything may be constructed its beauty may well be something different from the manner and material of its making. 'And it is comforting to think that we need not despise the beauty of things because they consist only of electrical energy; but rather admire them whether they do or not.'

The only completed study of any length which he published was his small book on *The Nature of Explanation* (Cambridge University Press, 1943). In this he appeared at first sight to be taking up a position diametrically opposed to that of his early essay. He argued that perhaps the human mind and body operate exactly according to the mechanical principles of the complex calculating machine or certain developing forms of servo-mechanisms, regulating its output not only according to the quantity but also according to qualitative features of the input supplied by its appropriate stimuli. Others, watching these machines at work have seen them as illustrations of how the human mind, faced with special problems, mostly of a practical character, has set to work to devise instruments which tackle them as nearly as possible with the results that the mind itself might achieve. He seemed to be trying to see them as evidence that in so far as they are successful, they show how the mind works, not in inventing the machines and using them, but in actually solving the problems. If therefore the flexibility of such machines could be so enormously increased that they could deal with as many and as varied situations as the mind and body can master, this would prove that they work just as the mind and body do, and further, the principles explaining their operation would be exactly those principles

* I am deeply indebted to his mother, Mrs M. Sylvia Craik, for a copy of this essay.

which are used in the current explanation of the operations of any system called mechanical.

Both these inferences are dubious. Both seem a far cry indeed from the earlier essay which asserted that 'the mind is... a fit instrument for any research, and something to be treated with a reverence that we can never feel for what may turn out to be a novel and complicated kind of engine'.

Many a time in the last year or so I went to his room in the Laboratory and found him, with absorbed delight, experimenting with lovely self-regulating machines, adapting them to pick out and respond to stimuli in rapid sequence in a different manner from their reaction to stimuli in slower succession, and even to segregate and do something special about changes of shape, like kinks in a straight line. When they broke down, as they not infrequently did, he would look up with a rueful smile and go on trying. In those smiles I think that perhaps I was not wrong in finding some quiet but deep satisfaction. He was so honest that he had to go right through with the mechanistic hypothesis, pushing it to the uttermost. Yet with him, as with many another, there remained the conviction that man's life and search are a perpetual adventure, and that all our advances towards self-knowledge are promises without end.

F. C. BARTLETT

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B.P.C. = Military Personnel Research Committee.
M.R.C. = Medical Research Council.
A.O.R.G. = Army Operational Research Group.
A.P.U. = Applied Psychology Unit.
R.N.P. = Royal Naval Personnel Committee.
A.R.L. = Admiralty Research Laboratory.

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