



# FELIX



NEWSPAPER OF IMPERIAL COLLEGE UNION

No. 189

Wednesday, 13th MARCH 1963

PRICE 4d.

## WE'RE OUT

### NUS MOTION DEFEATED

The Second debate this term over the N.U.S. issue was held in the R.G.S. hall last Thursday, March 7th, and the motion "that this College join NUS" was defeated by 315 to 254 with 14 abstentions. The debate might have been an empty anti-climax, or it might have become a dull repetition of that which went before. In fact it was neither; it resolved into an exciting and humorous flow of rhetoric and occasional sarcasm. The opposers considered the proposers irrelevant while the latter claimed the former were slanderous. The result was an hour's delightful entertainment.

#### TWO MOTIONS

##### CONSIDERED PRESIDENT PROPOSES

The meeting opened in danger of sinking in its own mediocrity. Two motions were put forward,

#### CONTRATULATIONS,

##### MR. PRESIDENT!

This year the Sir Arthur Acland English Essay Prize was awarded to Mr. A. Chandmal for his essay "The Prehistoric Cave of Lascaux."

This is probably the first time the award has been made to the President of the Union and the examiners made special mention of the high standard achieved.

one as small minded as the other, and Little's pedantic proposal to change the wording of the motion was admirably dealt with by the Chairman. The President vacated the Chair, and though in bad health spoke eloquently saying that the executive would certainly be able to deal with the extra work involved.

Mr. Gardiner layed about NUS in terms which Mr. Berry described as slanderous; only the staff, he claimed, would suffer were NUS to disappear.

#### "TURGID RHETORIC"

#### "JOIN THE BOILER

#### MAKERS"

Mr. Liddle described the NUS

council minutes as 150 pages of turgid rhetoric and waving a great deal of paper endeavoured successfully to ridicule the motions before said council. Mr. Harris implied that we might as well join the Boiler Makers Union as NUS, and amidst a great deal of laughter told of the unfortunate "Soe Joak" who was supporting us all at College.

#### "UNHAMPERED BY FACT"

#### "NUS OCEAN OF STERILITY"

Mr. Turner in a characteristic style pleaded that the opposition had unfair advantage, since they were unhampered by fact; further, the whole thing amounted to a monstrous slur on NUS. In perhaps the best received speech of the day, Mr. Watson applied biting sarcasm to good effect. Referring to NUS as the wonder cure for Mooneys' meals, he said that the first fruits from the golden bough would be £300

Cont on page 3

#### GENERAL STUDIES

#### Harold Wilson

#### at I.C.

The Rt. Hon. Harold Wilson, M.P., Leader of the Opposition, had a record audience for his General Studies Lecture last Thursday on "The Political Scene." He was accompanied by Richard Crossman, M.P., Shadow Minister of Science, and introduced by Professor P. M. S. Blackett.

Mr. Wilson, after first announcing that he did not intend to make a political speech, launched a scathing and often closely-argued attack on the Government's educational and economic policies.

He expressed horror at Lord Hailsham's complacency over the question of scientific education, and the loss of our graduates to America. "Britain not only produces far too few scientists, she wastes too many of those she has got on abortive defence projects or on dreaming up fresh gimmicks with which advertising men persuade us to buy even more of something we didn't even know we wanted in the first place."

Labour would give first priority to the Ministry of Science. "At present the Minister, poor fellow, is weighed down with every gimmick a tired and beaten Prime Minister can lay on him. With his Ministry's motto, 'Research on a Shoestring,' emblazoned on his shield, he goes forth to do battle with a Treasury more interested in Surtax relief than in the Ministry of Science."

The U.G.C., said Mr. Wilson, should not be under the control of the Treasury, whose job it is to curb spending; it should, he concluded, somewhat surprisingly, be under the Ministry of Science. One is strongly tempted to wonder if he would have spoken in a similar vein at, say, the Royal College of Art.

In the case of disarmament, firms losing defence orders should be given R. & D. contracts to investigate all manner of fundamental problems. If only a few even produced useful results, the money would have been well spent.

A.D.B.

## GORDON LOWES

The ideal Sports Shop

GOOD DISCOUNTS FOR  
ALL IC MEMBERS

21-23 Brompton Arcade,  
Knightsbridge, S.W.3

KEN 4494/5/6





**FELIX**

NEWSPAPER OF IMPERIAL COLLEGE UNION

Circulation 1700.

Editor ... ..	A. T. Pawlowicz
Adv. Manager ... ..	Michael Coombs
Treasurer ... ..	H. Smith
Photographer and Artistic Advisers ... ..	Roger Henson
Sales Manager ... ..	Keith Jones
Asst Sales Manager ... ..	Edward Babb
Production Manager ... ..	Margaret Lodge
Cartoonists ... ..	Nick Walker
	Dick Reeves
	Rod Chilton
Sports Editor ... ..	Bob Collins
Social Reporter ... ..	Dave Lenherr
Secretary ... ..	Penny Howard

## COME TO THE FIFTH MAY BALL

9.30 p.m. — 5.30 a.m.

MAY 3rd

£2 10s. 0d. Double

Application forms available in Union Office from

MARCH 18th

### ROYAL NAVAL SCIENTIFIC SERVICE

VACANCIES in Research Establishments mainly in SOUTH  
and SOUTH WEST ENGLAND.

PHYSICISTS  
MECHANICAL ENGINEERS  
ELECTRICAL ENGINEERS  
ELECTRONIC ENGINEERS  
MATHEMATICIANS

are required as :

SENIOR SCIENTIFIC OFFICERS  
SCIENTIFIC OFFICERS  
and some  
SENIOR and JUNIOR RESEARCH FELLOWS

For further information consult your  
UNIVERSITY APPOINTMENTS OFFICER

or apply to :

SUPERINTENDENT, SCIENTIFIC PERSONNEL,  
R.N.S.S., ADMIRALTY,  
LILLIE ROAD,  
LONDON, S.W.6

quoting this journal.

Graduates who may be going abroad, but will be available in  
1964/65, may apply now.

## This is not an Editorial!

### UP TO NO GOD

I feel that many of you will not have understood just **why** you must follow Father Ivor's simple suggestions so I thought a few words of clarification would help. I must say straight away that it is not in order that you may spend forty days **tempted of** Satan. Sorry, but there it is. Do you like our snappy slogan, "Limbering up for Lent"? Of course we cannot afford the big agencies yet but the time will come . . . .

Let us look at suggestion (1) "Private Prayer to be regular, morning **and** evening." Well, this is good sound stuff, but if it does not work, try a laxative. Suggestion (2) . . . yes . . . May I expand a bit on this New English Bible business? We felt that the Grammar Schools were getting a little behind in Bible reading mainly because they couldn't so we got some chaps together (who hadn't even seen a Grammar school, actually) and told them to talk down but with dignity so out came this new thing and of course the people love it. Helped to sort out the wheat from the goats among the clergy too.

(3) Next, I think the greatest of God's gifts to man is the Free Will to come to Church and it is **your bounden duty** to come and thank Him for giving you this choice. We will pass on to number (5) now because self-denial is paramount in Lent. A few hints on how to get away with self-denial in company; I have found that "Doctor's orders," "Throat trouble" or "Just had an operation" are invaluable cover-ups against pagan curiosity. What's next? Oh yes; Almsgiving, as Father Ivor says, this is an integral part of self-denial especially as one has to wait so long for the Thanksgiving. We do **not** mind if you give the money to charity.

And lastly number (7). Well, being a gentleman **and** an evangelist is a little difficult but some diplomacy and some One-upmanship (we call it Holier-than-Thou) should help to bring other sheep to the fold. **Do** make sure they **are** sheep, it saves so much trouble with the newspapers.

CLIVE B. HEATH.

## SMALL ADS

Will the person who bought 23 tickets (Friday) for "KING OEDIPUS," please contact the Business Manager.

### WANTED!

A Student with dinner-jacket—Escort required for pretty, young nursing student (18) to May Ball. Friend of a friend of mine! K. Robson, Chem. Eng., or 36, Garden Hall.

### COLCUTT

So we are out of NUS. Hooray! Mr. Combes seems to be as inconsistent as I am on this issue, but now I have finally made up my mind. I've joined the winning side. NUS is not worth £300 to ICU. I was rather disappointed in the President's speech—he said nothing. In his first speech he implied that IC has money to burn and that the ACC is squandering money on beer. He knows this is not true, but I suppose it is fair debating tactics to say so if you can get away with it. In his summing up, he glibly described Stacey as being glib, and Gardiner as sincere. It is a pity that he was not more sincere himself. It is all very well advocating IC representation on outside bodies, but how often does he represent IC in ULU Presidents Council? Last week was ULU Rag Week, but I'm afraid that IC did not make any real contribution. Surely we could have organised some sort of stunt with all this spare administrative talent that we are supposed to have?

Perhaps ICU is not all one cracks it up to be. I hope that we do better in our own Carnival.

IC hops have not been too good lately; attendance seems to have been dropping. Is it the bad weather, the lack of publicity, or the "undance-able to" jazz bands that have kept the birds away, or is it the unsocial-able atmosphere induced by the large groups of men at the back who just stand and stare. Whatever the reason, it is high time something was done to re-establish the IC hops as the best in town.

### LETTER TO THE EDITOR

Dear Sir,

Do we really have to put up with reading the tasteless rubbish published in "Auntie Lopes" column? The elegant ladies of ICWA must be rather tired of the old, so called "jokes," pushed at them by the obviously sex-starved compiler of the column, and most students at I.C. with an I.Q. over 60 are not interested in Mr. Alison's wild oats. (See column in the last edition of "Felix.")

If this literary abortion must remain can I steal a thought from TWTW and suggest a more realistic title—"That was the wit that wasn't."

Yours faithfully,  
K. HOCKING,  
Botany 3.

### QUOTES OF THE WEEK

Every time I go past her room, I hear "Sizzle, sizzle."

—3rd floor resident.

I believe in the sanctity of women.

—3rd year Elec.

I've given up Church for Lent.

—Anon.



## NUS DEBATE

Cont from page 1

worth of rubbish for the cleaners to take from IC waste baskets. "Let us not," he asked, "dissipate our energies in an ocean of sterility."

## SUMMING UP

Stacey vs. Chandmal

Mr. Stacey employed the smooth second-hand car salesman delivery in his summing up; again a masterly performance, but a trifle impudent perhaps to refer to Mr. Chandmal's so-polished technique. Mr. Chandmal used his own inimitable method in ridiculing each opposition speaker in turn. This, as always, was beautifully done, but while we were marvelling at his superb oratory we tended to forget the real issue at stake. Of Stacey he said: "An army of attractive phrases booming over the landscape in search of an idea." His main claim was that IC could come to no harm in NUS.

LESS INTEREST  
FEWER VOTERS

It may be that the Union is losing interest in the topics of NUS. Certainly less persons voted. Now that a decisive vote has been taken it is hoped that the dead horse will be allowed to rest for a few years. It has been an interesting term.

J. M. COMBES.

## Spannerama

After our very popular scrambled edition the other week, falsely rumoured to be of foreign origin, we have sobered up and are back to normal. Last week we had intended to report on the Engineer's Dinner and Dance but we were still recovering at the time of writing as our efforts proved. If Mr. Pawlowicz condescends to publish our account this time you will be able to discover what happened and if not, you cannot complain, tickets were available. A red and white striped perambulator was found in Master Micky Harries room last week by the cleaners. Was his affair a mistake or did Hocking have anything to do with it?

Last Thursday saw the third Guilds Union Meeting of the year. When the President officially opened the meeting he was saluted by a fly past of some 100 light aircraft. After the customary pillorying of the secretary minute after minute, congratulations were extended to the Radio Society and yet again to the Motor Club for their recent successes. In view of the gravity of the situation of the past three weeks and the severe financial stresses under which I.C. Union might find itself, a motion was proposed that the President of Guilds should set an example

and use a cheaper convenience, sorry conveyance. The obvious choice was a perambulator. Tweedle Carter and Dum Austin proposed the motion pointing out that the President was at the age where he was unable to distinguish between male and female. This they claimed was shown by his continual reference to "Bo" as she. Did any person present, they asked, know of a girl with a clutch, crash gears, a capacity of two litres and who still went to Brighton at the age of 61. Two experts on structures proved that the structural problem was difficult. The chairman of the debate, J. B. Preece, then allowed Mr. Liddle to put forward his defence, namely that the Union could not afford to support both himself and a perambulator. Two technical experts from the Ministry of Perambulation were called in to

give advice on the bye-laws relevant to the case. The debate was then thrown open to the meeting whereupon many incensed persons, aired their irrelevancies. Mr. Stacey in his rhetorical summing up demonstrated his inability to grasp the facts of life. No one was in any doubt as to which way they should vote and in order to prove the vehicle fit for the road and water a posse transported the President to his Mecca, the Queens.

Lately it has come to our notice that Guilds took part in a pedal car race in which they finished the course despite limited time available to make their car. Guilds also sent a deputation to Brighton in answer to President Kennedy's urge to all future executives to walk 50 miles a day.

**GUILDS UNION MEETING**  
Last Union Meeting of this term:  
Thursday, 14th March  
Room 542 Mech. Eng.  
at 1.15 p.m.

# A career is what it's worth

If you divide the population into two groups — those who take THE TIMES and those who don't — you find this: those who *don't* take THE TIMES are in the great majority. Those who *do* are either at the top in their careers, or are confidently headed there.

THE TIMES both by its seniority in experience and by its incomparable prowess as a modern newspaper, naturally commends itself to successful people. There is no high level conference, no board meeting, no top executive's private office into which THE TIMES is not apt to be taken.

This choice of a newspaper by people who get on is indisputable.\* In which of the two groups do you place yourself?

# Read THE TIMES

\* STUDENTS AND THE TIMES: As a student you can have The Times for 2½d. Write for details to the Circulation Manager, The Times, London, E.C.4



## TRAVEL TICKETS

ALL TRAVEL TICKETS &amp; RESERVATIONS

whether by  
AIR, RAIL, or SEA

may be obtained from

SEWELL &amp; CROWTHER LTD.

10, OLD BROMPTON ROAD  
S.W.7

No Booking Fees

KEN 1295





## FELIX PROFILES

### The Dean of Mines



**PROFESSOR J. G. BALL, B.Sc., F.I.M.**

Coming to the Royal School of Mines in 1956 as Professor of Physical Metallurgy, Professor J. G. Ball was, within two years, Head of the Metallurgy Department and was elected Dean in October 1962.

His career, since graduation from Birmingham, has been basically one of research, firstly with the British Welding Research Association and later with the A.E.R.E. at Harwell.

Professor Ball's attempts to brighten the sombre surroundings of the Metallurgy Department with a selection of paintings are much appreciated, but this was not his first essay into visual stimulation. Research reveals that he and the staff of the B.W.R.A. decided to brighten up the office there and being impatient for the appearance of skilled decorators tried to tackle the job themselves. On that occasion, however, the untimely bursting of a distemper spray resulted in the then senior metallurgist being so completely white-washed that it is said that then he was able to join the A.E.R.E. without any questions being raised.

During his time in the Welding Research Association Professor Ball worked on the welding of light alloys and structural steels, and the development of new alloy steels of good "weldability." He was particularly concerned with improvements in the fabrication and welding of Baily Bridges, sections of which he somehow managed to construct and dismantle in a tiny basement room.

At the A.E.R.E. in 1949, Ball took over research and development on plutonium. At this there was no collaboration with the Americans and the properties of the element were an unknown quantity apart from the fact that they were rather(?) dangerous. He pleasantly recalls the great enthusiasm associated with this work under very primitive conditions and certainly far removed from the multi-million, gleaming monolithic structures at Harwell to-day. As head of a research group, Professor Ball's first office was in a lavatory, although he did stress that there had been some attempt at conversion. In spite of great experimental diffi-

culties associated with the handling of this highly toxic material(?) Ball's team was successful and their endeavours were crowned in 1953, by the setting up of a production line for manufacturing the plutonium fuel elements required for the cone of the Zephyr fast reactor. In his last three years at Harwell, Professor Ball took charge of the Reactor Metallurgy Group, which was then responsible for all aspects of reactor technology. Again this pioneering work was accompanied by a great deal of enthusiasm and excitement indicated by agreeably working at three in the morning. Asked what his wife thought of such behaviour, the reply was, "She sometimes brought us coffee—which had to be inserted through the fence."

Professor Ball's return to academic life was prompted by the greater breadth of approach and intellectual freedom. His appearance at Mines was heralded by radical changes in the courses—a necessity in the promotion of the science and a reduction of the art. His opinions stem from the belief that the cult of the amateur has far outlived its British usefulness.

Under his guidance the Metallurgy Department has one of the largest postgraduate research groups in Imperial College and he is part instigator of a new postgraduate course in Materials Science which is to start in the

Autumn. Further expansion in the form of a new chair in Applied Metallurgy is imminent. These changes have brought opinions of distrust from the traditionalists but Ball rightly points out that the R.S.M. was founded by innovators and one cannot live on their traditions. To do so would mean that there was no creation and with no creation there is decline.

Professor Ball's administrative and committee capacity is illustrated by his sitting on over forty committees both within and outside the College. He classes, from his position as an academician, the most important as being the General Studies and the Library Committees. Not merely content with agreeing that an educated student requires far more than a knowledge of his notes he has and is doing a considerable amount of work in this direction. Apart from the paintings which have been hung in Mines he has arranged for art exhibitions in the Haldane Library.

Professor Ball's phenomenal capacity for work is possibly amplified by his leisure activities which include a voracious appetite for reading, cabinet making of a high order, music, photography and, when he has got the time, designing other people's gardens. When taking his vacations, he and his wife delight in unorganised travel and especially enjoy touring the art galleries of Italy. In a few weeks' time he makes his first visit to the States where he is going to investigate academic developments in metallurgy and materials science.

In Professor Ball there is a man of very broad and developed interests, a man who has the capacity to brilliantly lead a research team and who possesses the qualities of an aware educationalist. A man Mines is glad and proud to have as their Dean.

R.W.S.

### IC—RCM VERDI REQUIEM "NO MORE LANDLADIES"

This is the theme of a directive issued by the conductor of I.C. Choir at a recent rehearsal. Why should they be ostracised? Because of their treatment of students? No! Their looks? No! Their morals? No again. But because they have formed the majority of the audience at all the recent concerts of the I.C. Choir.

The choir is a go-ahead organisation efficiently directed by Dr. Eric Brown. During the past five years it has increased its membership sixfold and this is due to the enthusiasm of its conductor. The repertoire is extensive and has included such works as the Monteverdi Vespers, the Mass in B minor by J. S. Bach, and the first public performance of "No Room at the Inn," a carol composed by Christopher Shaw, the choir's accompanist.

The climax of the current year's programme will be a performance of the Requiem Mass by Verdi in the Royal College of Music on March 20th. This has been described as one of Verdi's greatest works, the music resembling light opera rather than a sombre dirge, as the title suggests. Could anything be so dull with four trumpets and two faggots as part of the accompaniment? Control of a full orchestra and nearly 200 voices (over 100 of which are female!) will be in the hands of Dr. Brown. During rehearsals it has become apparent that the choir's mastery of the intricate dynamics (f and p) of this work will be the highlight of the public performance.

The concert hall of R.C.N. is small and will seat only 700 people. Already, over 400 tickets have been sold, we suspect to landladies, despite the threat; how pleasant it would be to see I.C. students filling the OTHER seats at this particular concert.

### RCS 3RD YEAR AND

### POSTGRADUATES

### RCS ASSOCIATION A.G.M.

**FRIDAY, MARCH 15th**

**5.30 p.m. in Union Upper  
Refectory**

**FREE BEER!  
FREE BUFFET!  
FREE FILMSHOW!**

**All 3rd Yrs. and PG's of RCS  
welcome**



# CARNIVAL PAGE



**LYNN CURTIS**

Since hitting Imperial College in the Autumn of 1962, this explosive ICWarian has become known to everyone in general, and certain college sportsmen in particular.

Her knowledge of sport is not, however confined to hearsay as she formerly represented Essex on the Hockeying Field. Essex is her home county, though she now has digs in Richmond, to which she repairs at a far earlier hour than she customarily left the lower lounge in the evenings last term.

Linda's reason for coming to IC is to study Mathematics, and though still in her first year, she shows as much promise in this direction, as in all those more pleasurable pastimes to which her sex is an advantage.

The members of Maths I have no hesitation in calling on all men of I.C. who notice the beauties of the Spring, to agree with them that Lynn Curtis is ideally suited to fulfill the post of I.C. Carnival Queen 1963.

**king  
oedipus**

**concert hall  
tonight 7.30**

## AT LAST CARNIVAL QUEEN NOMINATIONS



**MARION PONMAN**

I very much doubt if you have ever had the pleasure of meeting a real live ex-councillor for the Education of World Citizenship. However, you may correct this sad state of affairs by attending the Carnival Queen Parade and examining exhibit "A." Marion, who was once a fully paid up member of this distinguished order.

In 1962 she heard that an even nobler cause existed, and therefore came to I.C. to offer her secretarial services to the Electrical Engineering Department. Marion soon found out that office hours were unfortunately only from 10 a.m. to 5.30 and it does not need much of a mathematician to realise that there are 724 hours remaining each week.

This initially presented her with a great problem, but she soon discovered a few methods of whiling away these excess hours. Ice-skating, dancing and sailing now provide a healthy balance to her sedentary occupation, while Trad. Jazz lends itself to effortless mental digestion. ?

Marion started driving two years ago, and possessed an old motor-car named B.O. (pronounced bee-oh) for reasons best known to mechanics. This vehicle met with an unhappy end suddenly last year, and was succeeded by B.O.2, a 1935 Austin 10 which is used daily for the journey to college.

I have no doubt that with the help of your approval, this year's Carnival Week functions could have the most attractive and gayest ever figure-head by electing Marion to the office of I.C. Carnival Queen, 1963.

LIONEL D. MOSS.

## LUVERLY GRUB

Take 731 rolls, 9 lb. butter, 2 tins of tomatoes, 2 tins of pilchards, 1½ cans of mustard, 14 lb. of jam and 4 gallons of concentrated orange squash; stir in a few Prominent College Personages; add a generous helping of "trad" from the I.C. Trad Band; and you have the first, very successful, Carnival Lunch. Another is being held in the last week of term, so why not give your stomach a change from roast goodness - knows - what à la Mooney, and come along to the next Carnival Lunch!

### CARNIVAL PROGRAMME

Friday, April 26th:

Carnival Queen Parade.

Wednesday, May 1st:

May Dancing.

Friday, May 3rd:

May Ball, and Crowning of the Carnival Queen.

Wednesday, May 8th:

2.30 p.m. Chariot race in Hyde Park. (Togas optional).

7.30 p.m. International Evening.

Thursday, May 9th:

Films (including Peter Ustinov's "Romanoff and Juliet").

Revue.

Friday, May 10th:

Revue.

Saturday, May 11th:

12.0 p.m. Carnival Procession.

2.30 - 5 p.m. Fete.

8 - 12 p.m. Masquerade Ball.

In addition, several other items are being planned; more details will be available later.

### INFORMATION, PLEASE

Next term, the Carnival Information Stall will be set up in the Union Quad. It will be a centre for all Carnival news and information; raffle tickets will be col-

lected and distributed, etc., etc.

### RAFFLE TICKETS

Tickets for the Raffle, one of Carnival's biggest money makers, will be sent to you by post during the Easter Vacation. Please try and sell as many as you can; remember, for every ten you sell, you get one for yourself, as your "commission"; and in addition, there is a prize for the person who sells the most tickets. Full details will of course be sent to you with the tickets.

### FREEDOM FROM HUNGER

Finally, some information about the Charity which will benefit from the Imperial College Carnival this year.

Freedom From Hunger was founded to tackle the appalling problems of hunger which afflict more than half the world. It does this in two ways; by giving immediate help in cases of dire need, and by financing longer-range programmes which will bring benefit over many years.

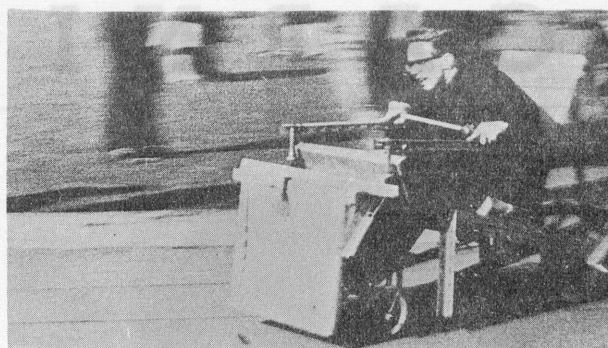
It is one of these latter projects which Carnival will aid; a scheme to build a system of small earth dams in Northern Nyassaland which will irrigate many thousand acres of now dry soil. The scheme is not a spectacular one, but it will bring to a poor community more and better food, and, equally important, a chance to be self-reliant. Both of these are of course vital to the future of a young and developing country; and therefore I hope you will all support the Carnival, now, during the vacation, and especially next term, with all your energy and enthusiasm.

P.D.B.





## Jezette at speed



### Guilds no.43 & R.C.S. no.20

#### R.C.S. ENTER BRISTOL PEDAL CAR MARATHON

For many weeks past the men of Physics III and II have been labouring behind locked doors to build the R.C.S. reply to the B.R.M. The result of their efforts could be seen in Bristol at noon on Friday, March 1st, drawn up on the starting grid of the 24 hour Pedal Car Race, held annually by Bristol University as part of Rag week. Her name was "Jezette," and as the first few laps showed, she was one of the fastest of the entry of 50; an assorted group of cars, varying from tiny kiddie cars driven by teams of women, to monsters weighing hundreds of pounds. There was even an unofficial Guilds entry, built the night before.

For the first two hours each of the R.C.S. "Thetans" pedalled 3 laps each at a stretch at an average lap time of 1 min. 30 secs., easily one of the fastest times. At 2.15 the first disaster struck. Whilst Johnny Hall was rounding the pit's bend one of the back wheel's spindles snapped. He made a truly valiant effort to continue driving with one back wheel, but the car was taken out

of the race. Team Manager Kirit Patel with drivers Vic. Julyan and Clive McCann eventually found a brazing torch in Bristol to repair the car.

By 5.30 p.m. R.C.S. were back in the race but the brazing had caused one of the axle bearings to seize, making the going really tough: lap times were now 2mins. 30 secs. At 7 p.m. the drivers

divided into two 3 hr. shifts. At the beginning of the 3rd shift at 1.0 a.m. Saturday "Wrecker" Hall punctured one of the back tyres; in the pits it was discovered that the other back wheel spindle had broken. This was eventually successfully repaired but all through the night the tale of disaster continued. Wheel spokes were broken in a collision, others snapped as the race continued. Nine punctures were repaired before Dave Johnson, who had taken over at short notice from 'flu-ridden Keith Hocking, continued the race.

Seven hours were lost during the night and it was only due to the Guilds team (that had dropped out temporarily with a broken back axle) that the R.C.S. car was kept going, with two 6 inch front wheels off a pram, replacing the original R.C.S. wheels.

From then until the end of the race the team hammered round, engaging in duels with the leading cars and pushing the rest out of the way. Although we could not win we felt we could provide the thousands of spectators, who had turned out to see the end of the race, something to talk about; and I'm sure they will remember the sight of Emlyn Jones lapping at speed with beard flying behind him and Steve Colgan's brilliant attack on the lap record which failed by only 3.5 secs.

R.C.S. finished 13th out of the field of 50 after 13½ hours pedalling, and as the Guilds and R.C.S. cars completed their last lap, the combined teams rocked the pits with a mammoth "Hey Vivo!"

C. McCANN.

While few of us wish to know the future, many hope—reasonably—to have a hand in shaping it; and this requires acquaintance with what may lie ahead. But traditional methods of probing the future are no longer in favour. Crystal-gazing has obvious limitations. Witches are prophets only of ultimate doom. So today one turns, in the first instance, to the appointments officer for the pathways to the future. We, for our part, would like to elaborate what lies along one of them—Unilever Research.



**AND  
YOU**

Research in Unilever means industrial research: research directed to specific ends: research with a practical outcome. But not only that. No industrial project or problem stands in isolation. Its roots rarely lie in industry. So, research in Unilever also means research in a number of contrasting fields—detergents, edible fats, foods, cosmetics—and it means, further, research in surface chemistry, glyceride chemistry, protein chemistry, and a host of equally fundamental topics. It means a community of scientific interest within Unilever, and continuity of academic contact outside it.

It can mean research as a career, or as an introduction to the technical and commercial sides of Unilever. It can provide satisfaction in the pursuit of it and financial reward in the success of it. There is only one minor hazard. Our standards of acceptance are high.

We invite you to write to Dr. A. CROSSLEY, Staff Officer, Research Div., Unilever Ltd., Unilever House, London, E.C.4

**UNILEVER RESEARCH**

UR 13/1-4529-68

#### FILM SOCIETY

On Friday, 15th March, at 7.0 p.m. in Physics Lecture Theatre 2, the society is showing two films, "The Navigator" and "Destiny of a Man," and these will be followed by the A.G.M.

"The Navigator," starring and co-directed by Buster Keaton, must surely rate as a classic of the silent cinema. It is notable for its elaborate staging, novel mechanical effects and continuous flow of humour (such as his attempt to shuffle a pack of wet playing cards) which is just as funny to-day as in the mid-twenties when the film was a box-office success. The measure of Keaton's genius can never be better assessed than in this cleverly made comedy, where he gets the laughs without apparently moving a single facial muscle. Only once did he smile in one of his films but so effectively did this kill the joke that he never tried it again. The piano accompaniment will be by Mr. Arthur Dulay, resident pianist at the National Film Theatre, who will also introduce the film.

"Destiny of a Man" is one of the best films to come out of the USSR in recent years. Directed and produced by Sergei Bondarchuk, who also plays the leading role, the film tells the life story of a village carpenter, but is mostly concerned with war and his experiences in Nazi concentration camps. It is intensely dramatic and imbued with pro-

found philosophical reflections—what is man's place in life and what is happiness in the noblest sense of the word? Without being sentimental, "Destiny of a Man" shows the true meaning of the traditional manly virtues of courage, endurance and love, and reminds us of what the world of human beings is really like.

Members are reminded that nominations for next year's committee are due by March 14th. Also every consideration will be given to suggestions for future programmes, both for shorts and features, so please bring them along to the A.G.M. A question to be discussed then is the aims and objects of the society. In past years, the programmes tended to be of a specialised nature whereas now they cover a wide range of film making. If there is sufficient demand, it may be possible next year to arrange a series of films and discussion groups on the work of, say, Eisenstein or Bergman on Wednesday afternoons and to show popular entertainment films on Friday evenings. It is hoped that as many members as possible will come to this meeting to discuss this.

On Thursday, March 21st, the society is arranging a General Studies lecture by Stuart Hall of the British Film Institute. The subject will be "War Films" and the lecture will be illustrated with film extracts.

R. S. ROBERTSHAW.



## Road Relay

### MANCHESTER VICTORIOUS AGAIN Ex I.C. Man in Winning Team

Speculation ran high over the outcome of the fifteenth Annual Hyde Park Road Relay, run on the 23rd February. Leeds, having come close last year, were a popular choice with strong challenges likely from several of the other Northern Universities, and a possible London victory was the burden under which U.C. started the race. Manchester, however, confounded all the experts by winning easily in a very fast time, giving them the Sir Roderic Hill Cup for the third time in five years.

A record field of 78 teams came came before the starter on a cold, dry day on which underfoot conditions were far from conducive to fast times. C. Llewelyn-Smith of New College, Oxford, next year's Varsity captain, was the first to move to the front of this impressive bunch as they ran round the first of the six three-mile legs. He brought this minor College team to the 1st change-over ahead of the field, including international T. Schofield (Loughborough) and several Blues.

Despite the constant attention of the Sheffield University runner, New College managed to hold on to this lead until the beginning of the third lap, when they were sunk by the bigger guns of the fancied Manchester, Sheffield, Leicester and Durham University teams. Ron Hill, international marathon and cross-country runner, stormed into the lead for Manchester with an impressive run of 13 mins. 37 secs. which brought them from 8th place to a commanding 160 yards lead, which they were not to lose.

Jeff Greenleaf, who never ran in this race while at I.C., took over from Hill and held the lead, with Sheffield maintaining second position. U.C., who had started quietly now lay in 10th position, but their deficit of 2 minutes appeared too much even for their outstanding runners, Pete Yates and the redoubtable John Farrington.

ton. By now, it was evident that Queens' and Trinity, Cambridge and Bart's Hospital would be involved in a close fight for the minor Colleges' trophy, the Imperial College Union Cup.

Manchester's lead was made unassailable on the fifth lap by a good run from D. Nightingale who held a 50-second lead over Durham with Sheffield hanging on to third place. J. Whitton ran a fine lap of 13 mins. 45 secs. to bring Manchester home by a large margin from Durham, with Sheffield third. Mike Turner put in an astounding 13 mins. 35 secs. to ensure the I.C.U. Cup for Queens, dropping Tim Johnston, the Inter-County Champion by over 20 seconds.

#### RESULTS:

1. Manchester U. (rec.) 86m. 52s.
2. Durham U. 88m. 25s.
3. Sheffield U. 88m. 34s.
4. Loughborough C. 88m. 38s.
5. U.C. London 88m. 53s.
6. Leeds U. 89m. 08s.

I.C. Union Cup: Queens' C. Cantab. 10th in 90 mins. 02 secs.

#### FASTEST LAPS:

- D. M. Turner (Queens') 13m. 35s.  
R. Hill (Man.) 13m. 37s.  
J. Whitton (Man.) 13m. 45s.  
T. Johnston

(Trinity, Cantab) 13m. 57s.

P. Sulston  
(Magdalen, Cantab) 14m. 00s.

J. Farrington (U.C.) 14m. 05s.  
I.C., the holders, finished 31st in 94 mins. 25 secs.

## CAVING CLUB REPORT

"Holiday in the sun" . . . "Glorious vistas of snowfields" . . . "Thrills, adventure and excitement" . . . the usual captions of a travel agency you might think but no, they were all used to describe the latest trip to Mendip of the Saving Club.

Seventeen assorted students met in the I.C. lounge on Friday evening, 1st March, expecting a week-end of hard drinking and hard living. After a lot of pushing, cursing and good luck rather than good management, they and their equipment were all fitted in the van. Meanwhile to the consternation of some and the amusement of many, other members of the Club, not satisfied with the normal amenities of the Union had decided to climb from the first to the third floor of the Union on the wire ladders to test them.

Four hours later we found ourselves travelling between white cliffs of snow up to twelve feet high until at last we arrived at the barn where we spent rather a cold night under the stars.

After a morning lazing around in the sun we found ourselves, at mid-day, in old clothes outside Swildon's Hole. Those who hadn't been caving before wondered what they were in for, the others had a superior air, all were trying to hide their nervousness.

The cave was rather narrow at first with a lot of crawling to be done but it soon developed into large chambers and long canyons studded with formations. Soon a dull roar could be heard ahead, the first big drop which needed ladders. The diverted water of the stream hurtled over the edge to cascade 40 ft. to the floor below. One members fell off whilst

climbing down the ladder, but as she was "lifeline" she only fell about five feet before the rope took up the strain.

Soon it was decided to return to the surface as time was running out. The return journey was uneventful except for the amusement caused by one member leaning back on the 40ft. ladder and catching the full force of the diverted stream down the back of his neck. At four o'clock the party wearily emerged into the afternoon sunlight. Soon all but one of the other parties had returned. This party had arranged to go through sump I as far as sump II. (Sump — submerged passage for diving through). At 6 o'clock they still had not returned so it was decided to alert the rescue organisation. The number had just been dialled when they appeared out of the cave. It seemed that first one member had got stuck in the sump and then they themselves turned rescuers and had brought out three other exhausted cavers.

The evening was happily spent imbibing in the local and swapping experiences.

The next day again was warm and sunny and so the morning was again spent sun-bathing in Burrington Coombe and drying out wet clothes. In fact it was so glorious that only 6 people decided to cave in the afternoon, the rest going for a walk down Cheddar Gorge.

After an electrical fire in the van, a puncture and snowdrifts blocking the road the cavers were deposited at their caves only to find that one was flooded and the other was like Blackpool on a bank holiday.

The party arrived back in London in the small hours, tired and weary after a good week-end's caving(?).

N. HERRIMAN.

### SPORTS DAY 1963, WEDNESDAY MAY 1st

#### CLOSE CONTEST ANTICIPATED

Sports Day this year will be held at the University of London Athletic Ground, New Malden, Surrey, on Wednesday, May 1st. An official College half-holiday has been granted, so that no-one will have excuses for not being there to support his College, and enjoy a fine afternoon's entertainment.

This year's competition promises to be even closer than last, when the result hinged on the final event. Guilds have already won the cross-country team event from R.C.S., and at the moment seem all set to repeat their success in the 3 miles, to be held next week.

In addition to the team contest, some very close individual races are anticipated, and very good good performances will undoubtedly result. Bill Wood (R.C.S.), who was placed 2nd in the Northern Counties 440 yds. in 48.9s., and won the British Universities 440 yds. title last season, may well come close to or even improve his College record of 49.1 in this event. The sprints also promise to be good races, with Harrison and Wood (R.C.S.), and Jo Smith (C. & G.) who has made

great strides since last season.

The most interesting race may well prove to be the mile, in which two of the rival skippers, Colins (C. & G.) and Wilkins (R.C.S.) will meet. This year Dave Colins has managed to avoid serious injury throughout the winter, and we hope that he will now realise some of the promise he showed when finishing 3rd in the All England Schools Mile Championship. Wilkins should provide ample competition, since he has a personal best mile of 4 m. 18 s. to his credit, and has deservedly acquired a reputation as one of the best milers and cross-country runners in the University. Close finishes are also expected in the half-mile and the two relays, while in the steeplechase Wilkins (R.C.S.) can expect

a hard fight with Chris Janes (C. & G.).

In the field events, Turner (R.C.S.) and Martin (C. & G.) should have a keen tussle in the javelin, while Nicholson (R.S.M.) and Asekun (R.S.M.) are favourites for the high jump and pole vault respectively.

In addition to the athletic events, certain other entertainment of a diverting nature will be provided. I.C.W.A. will have some of their more talented members competing in a "netball match" against a team of Presidents and Union Officials. A Staff race is also being organised, and a tug-of-war competition.

#### TRANSPORT & TEAS

Coaches have been arranged to leave the Union at 1.30 p.m., returning by about 6.00 p.m., and teas will be available at the ground. The cost of the return journey will be 2/6d., and tickets will be on sale early next term.

This year's Sports Day is going to be an event well worth attending. Make sure that you don't miss it by getting your ticket early.

## LAMLEY'S

#### TECHNICAL & GENERAL

#### BOOKS

#### ART MATERIALS

#### DRAWING INSTRUMENTS

#### STATIONERY

#### PAPERBACKS

1, 3 & 5 EXHIBITION ROAD, S.W.7.



## Boat Club

### I.C. TROUNCE READING

The Boat Club won all four races against Reading University during the annual fixture on March 2nd. The course at Reading was a pleasant two-mile stretch of the Thames, finishing below Caversham Bridge.

The 3rd VIII had to fight hard in the early stages of their race, the crews were still level after two minutes when I.C., rowing with a steadier rhythm began to draw away and finally romped home to win by 7 lengths.

"Alpha," the fastest I.C. novice VIII, were a little over-confident and Reading, rowing at a higher rate, managed to snatch an early lead of  $\frac{1}{2}$  length. The well-drilled I.C. crew then drew slowly ahead to finish with a lead of  $1\frac{3}{4}$  lengths. "Beta" scored an outstanding 9 lengths win. Reading were never in the race and the I.C. crews did well to drive themselves hard over the course.

Three members of the Reading 1st VIII were ill so that the 1st VIII's race had to be cancelled. There can be little doubt that I.C. would have gained another convincing win in this race. In the all-important 2nd VIII's race, a good start by I.C. gained  $\frac{1}{2}$  length in the first minute. This gap was rapidly widened to 2 lengths which was maintained until near the finish when a final burst at 36 made the verdict  $2\frac{1}{2}$  lengths.

During the afternoon B. Vieri won a sculling race, so that I.C. superiority was complete.

This fixture was the first competitive event of the year, the result was a welcome reward for the months of hard training during the winter.

A more accurate guide to form will be the Head of the River Races later this term. The club has a full programme of regattas for the summer term and expects to do better than ever.

FREDERICK A. DOBNER  
(Boat Club Deputy  
Press Agent).

### IMPERIAL COLLEGE 1st RETAIN DIXON BOWL IN THE U.L. HEAD

from the FELIX Rowing correspondent

I.C.B.C. followed up their success at Reading by retaining the Dixon Bowl in the U.L. Head, awarded to the fastest University of London College crew over the  $4\frac{1}{4}$  mile course from Mortlake to Putney.

Twenty-three crews took part in the Head, which was run in windy conditions on the afternoon of Wednesday, 5th March, I.C.B.C. entering nine crews. The first eight home was the U.L. II, which does not qualify for the Dixon Bowl, hotly pursued by the I.C. I, which came in at 19 mins. 52 secs. I.C. crews also took 2nd and 4th places, and the first novice crew came second in the maidens division, only 27 seconds behind the winners, Kings II.

There were several surprises in the final placing: it was realised that the I.C. III crew had beaten I.C. II to the finish by 6 seconds. The much mocked Gentlemen's Eight showed their mettle by pulling up from their starting position of 20th to 11th, with a time only four seconds slower than the I.C. IV—quite creditable when it is remembered that they have not had any regular coaching, and have been rowing regularly as a crew only this term.

The only cloud on the horizon was the navigational error on the part of the second novice crew at the end of the course, which resulted in their coming in close contact with one pier of Putney Bridge with rather disastrous results to the front end of their boat.

Not counting U.L. II:

- 1st—I.C. I, 19.52
- 2nd—I.C. III, 20.07
- 4th—I.C. II, 20.13
- 10th—I.C. IV, 21.16
- 11th—I.C. VI, 21.20 (Gents)
- 14th—I.C. V, 21.39
- 15th—I.C. VII, 21.51
- 20th—I.C. VIII, 22.54
- 22nd—I.C. IX, 23.07

### THE DUTCH TAKE ON ICWA

During the first week of the Easter vacation, a team of ICWarians is visiting Groningen and Urrecht Universities in Holland. The keynote of the tour is variety, and a party of twelve will play the Dutch teams at sports including swimming, badminton, table tennis, hockey and squash. The following have accepted invitations for the tour: J. Brown, J. Brownlee, M. Bullock, M. Jones, B. Leslie, B. Milner, F. Oestriches, M. Pleaden, Dr. E. Rhodes, S. Stapley, A. Sutherland and K. Tait.

The team is particularly strong in squash and tennis, and should give a very good account of itself in these events, and should provide keen opposition in the other events. A few of the team will be competing in several sports, so that it looks like being quite a strenuous tour.

Departure date is the 24th March, and the team plan to spend a week in Holland, where they hope to combine sport with a full social programme. It is expected that the result will be a most enjoyable tour and a boost to women's sport in the College.

## ANNUAL PANCAKE RACE

### ICWA VICTORIOUS AGAIN

The ICWA team won the annual pancake race round the quad, mainly due to the lack of opposition from their opponents, the Executive. President Oldfield lost his pancake, President Little his trousers, Secretary Preece his umbrella, and President Chandmal his NUS card. All credit, however, to ICWA for the brave way they submitted to ordeal by water deluge and water bomb in order to reach their goal. A record number of pancakes were subsequently consumed on the 3rd floor. Your correspondent was assured that ICWA did not train on curry.

### BRIGHTON—

#### AND WE BURST

At midnight on Saturday, 23rd February, eight hundred (?) souls gathered on Westminster Bridge to walk to Brighton and show the world that the British nation was still capable of walking. Among those present were twelve IC representatives, seven of these being from first year Metallurgy, most of them sporting "Freedom from Hunger" posters and assorted clothing. Two of these travelled all the way in the supporting car, their chief duty being to brew tea in obscure places for the next 54 miles. The remaining ten were all walkers, that is, to start with at any rate.

Of the ten, one dropped out with blistered feet at the first check-point, joining the tea brewing party in the car. Another one retired with sore feet, and two more dropped out before the third check-point and were not seen again. The last one to give up was seen from the car walking in the wrong direction—his knee had gone stiff, and this presumably resulting in his turning round.

The remaining five won through to the 50 mile check-point, and three of these entered Brighton to roars of applause from assorted sadists and their car travelling colleagues. Those who had failed vowed in a moment of foolishness to try again. In any case, the IC men could claim a 50 per cent. success—the British Army could not even claim this much. Of a party of eleven from the Royal Signals, only one made it to the finish. This could be an indication that the average student is somewhat fitter than the Army.

## Soccer Club

Merrie England is green again, and soccer players are wearily emerging from their igloos pulling ham strings, muscles and fingers out in order to achieve the fitness weight of last term.

The first games of the restart were the U.L. Cup matches involving the 1st, 2nd, 4th, 5th, 6th and 7th XI's. Only the 1st and 6th XI's survived this plunge into the deep end, the former travelling to Sidcup on Sunday, March 3rd, to meet Goldsmiths' College. I.C. were not at full strength and their optimism was not increased by the large number of opposition supporters.

As expected the game started very fast, both sides fighting for an early goal. With Basil James back at centre-half, the I.C. defence efficiently broke down early Goldsmiths' attacks, each time the ball being thumped out hard to either wing. These tactics soon paid off when Colin Casemore raced down the right wing and sent across the ball hard and low to Alex Crawford who ran it into the net. I.C. then took advantage of their position and continually pressed the slightly demoralized Goldsmiths' defence. After 45 mins. I.C. were three up, Casemore having scored from a narrow angle and Crawford just eluding the goalkeeper from the edge of the area.

With nothing to lose, Goldsmiths' started the second half in very vigorous form, but the I.C. defence calmly held them in check safely backed by Dave Loftus in goal. In general I.C. were superior throughout the second half, but a stalemate seemed to descend upon the game. The fighting spirit departed from the home team and I.C. were contented to retain their lead.

In the League the 1st XI recently beat Goldsmiths' 5—1 thus easing the relegation danger. The 2nd XI continue their success at the top of Div. I (R) and the 4th and 3rd XI's at the top of Div. II (R) have strong promotion hopes. The 5th, 6th and 7th XI's all lie second in their respective Divisions. The 7th XI, captained by Ant. Jones, are worthy of special mention, experiencing a very successful first League Season.

D.J.H.

## SOCCER STOP PRESS

I.C. 2 goals down against

U.C. — match abandoned

15 minutes before end..