

# FELIX

IMPERIAL COLLEGE UNION NO. 283

6th NOVEMBER, 1969 6d.

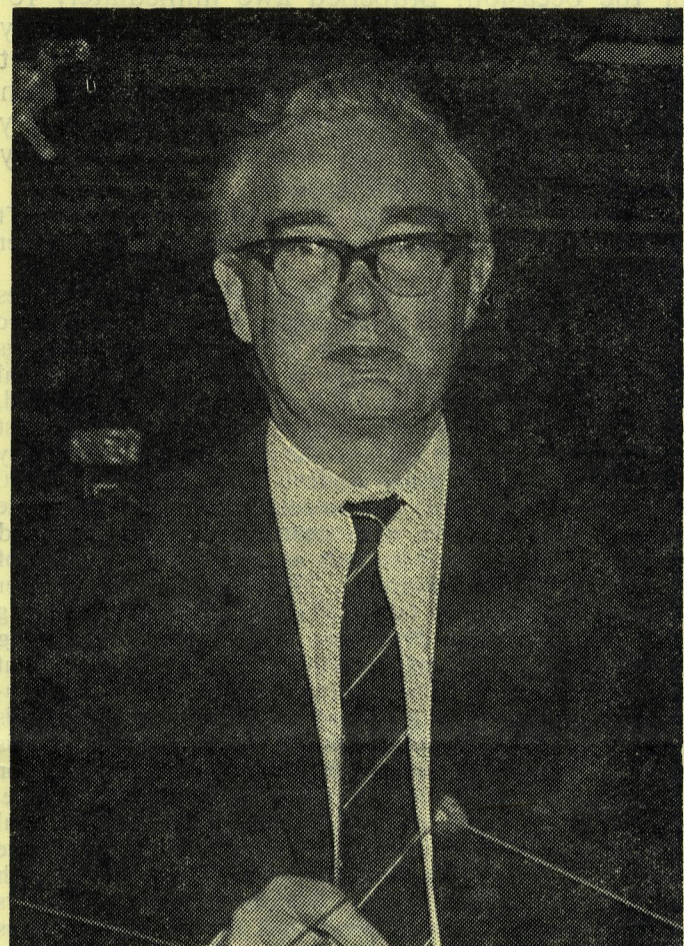
# EnNobeled

Last Thursday Professor Derek H. R. Barton of the chemistry department was awarded the 1969 Nobel Prize for chemistry. The prize shared with Professor Odd Hassel of Oslo University was given for their work "in developing and applying the concept of conformation in chemistry."

Research in this branch of chemistry was first undertaken by Prof. Hassel in the 1940's and was continued by Prof. Barton's work in 1950 on dynamic stereochemistry whilst a visiting Professor at Harvard. Prof. Barton's work has led to developments in the theory of molecular shapes and three-dimensional models of molecules and has led to a better understanding of how natural substances such as steroids, alkaloids and terpenes react. Prof. Barton himself going on to study the processes in which plants and moulds synthesize the natural substances. Prof. Barton, now aged 51, was a student at Imperial College and returned here in 1957 after holding posts at various other universities. With typical IC candour he said that he was not particularly surprised to hear of

the award — "scientists usually know where they stand on the international pecking order." Judging by the euphoria and champagne to be found in the chemistry department last Friday, after the public announcement of the award, his lack of surprise did not impede the celebration of his

prize. Prof. Barton now joins the hallowed ranks of other eminent IC scientists who have also gained a Nobel Prize, Professor Chain of Biochemistry and Prof. Blackett, senior research fellow of the physics dept. and a scientific advisor to the government.



## News of the Mews

At about 11 p.m. on Monday, 27th October a scuffle broke out in the Mews to the rear of Southside. The actual reason for the disturbance is still not absolutely clear. A man of, it is said, Polish origin came out of one of the Mews' houses, obviously discontented, and proceeded to remonstrate with another man about to go in. At this point someone from inside the house came

out, armed with a walking stick, and a fight ensued — the outcome being that the Pole was left outside shouting. By this time virtually all the residents (and others) of Southside were watching the scene, much to the delight of someone in an adjoining house, who was hammering away on a piano in an effort to entertain the crowds.

The police made several

visits and on one of these removed the Pole, who was still seething with discontent, but latterly had been conducting an impromptu Southside choir in a truly patriotic rendering of Land of Hope and Glory, accompanied by the fellow at the piano, to the obvious annoyance of some of the other local residents. His place in the Mews was then taken by none other than the warden of Silkirk Hall, C. C. Seaford, resplendent in dressing gown and pyjamas, whose appearance had the desired effect of substantially reducing the volume of noise.

Police officers were seen in Southside on Tuesday morning, and the police have reportedly been making further inquiries into certain activities believed to have taken place in one of the Mews houses.

## Carnival Winks

The first carnival collection stunt took place this weekend when Guilds and Mines went winking down Oxford Street on Saturday morning.

The prospect of collecting a large amount of money was hampered on Friday by a threat from the Metropolitan Police to arrest anyone with a collecting can, however over 80 people turned up on Saturday. Considerable confusion was created by Mines and Guilds taking opposite sides of the road and racing the length of Oxford Street. Mines reached Oxford Circus first and headed for Piccadilly Circus while Guilds returned to Marble Arch via C and A's.

On reaching Piccadilly a large crowd was drawn by the spectacle of a group of students winking down the steps into Piccadilly Underground and winking out even faster hotly pursued by the Law.

The return journey by tube was further enlightened by Dennis Taylor and his magaphone announcing the 1969 World Underground Winking Championships as a number of Guildsmen winked the length of a train.

The day finished with final score of

Metropolitan Police	Carnival
	£100

0

Don't miss the 3-legged pub-crawl down the Kings Road on November 14th with the women of Maria Assumption and the Institut Francais.

DANE HOBMAN

## Moon at I.C.

The only place in I.C. to benefit from the N.A.S.A. rock collection from the moon is the Mineral Technology Dept. A small glassy bead is under test on the

Geoscan scanning electron microscope. Elements identified include iron and copper, but none of the titanium that other investigators have reported.

## Elsewhere in Felix

Page 2  
Commem Day

Page 3  
Letters

Page 5  
Odds and Sods

Page 6  
Information

Page 7  
Reviews

Page 8  
Maltese Expedition

Page 9  
Sport

## Jack Straw

N.U.S. President Jack Straw is due to speak to a Polcomm meeting on November 17. His topic will be "Why IC should join N.U.S."

## I.C.U. Discusses Senate House Scuffle

The Extraordinary General Meeting of the Union called last Thursday verged on quoracy when Piers Corbyn opened the meeting.

Piers unfortunately started with extraneous business on the Board of Studies and a motion concerning reciprocal use of the swimming pool. Important though these matters are, in fact perhaps more vital to I.C.'s interests than the affair of Sir Dennis Logan and his relations with U.C. and University of Rhodesia that the meeting had been called to discuss, these first two motions caused so much dissention in the ranks and even greater dissent in the rank of John Darley, chairman of A.C.C., who had been given

no notice of the swimming pool motion and felt compelled to challenge the quorum. There was no quorum — the meeting closed. Before challenging the quorum, John Darley made it clear that he would not challenge if the matter was dropped. With all due respect to John, this was not the oft heard voice of reaction scared that its ideas would be held up to open ridicule but a genuine feeling that he, and A.C.C. should have been given notice of the motion beforehand. After all this motion concerned John's committee as much as I.C.U.

Low cunning entered in the form of Keith Guy who

by a laudably intricate move changed the E.G.M. to a meeting of the Debating Society! — with Piers as chairman. But as Piers wanted to propose the U.C. motion, Keith Guy took the chair.

After sufficient heckling from our still vocal right and similar, if more constructive intransigence from our increasingly vocal left, the motions on the floor were all passed with large majorities, much to the amazement of all after the haranguing that had gone on. Of course, the motions passed were quite unmandatable and presumably the second take of the whole scene will take place at the next Union meeting.

# How to bore 2,000 people without really trying — Commemoration Day Report

With no minutes to go some six hundred imitation Batmen sat stolidly in the pit of our Albert, surrounded by expectant and perhaps overawed parents, all awaiting our annual display of pomp and ceremony. The band struck up, the choir too, and the procession started. Parents' eyes gazed approvingly on the entering student procession, well maybe they looked a trifle perplexed at Piers' and Butty's garb — their usual plus robes for the occasion! Stupefied awe immediately replaced perplexity as the academic section slowly proceeded to the stage — two by two — in scarlet cape and squashed hat or mortar board. Such colour jarred for an instant against the sobriety of the student body but soon all were happily seated and the fun commenced.

Keith Guy performed well as student orator, one can't complain about his Latin pronunciation, maybe he never learnt Latin.

Lord Penney then gave his address. He talked of changes in structure, changes in relationships and changes specific to Imperial College, of growth in numbers, in buildings and facilities and growth points in academic and technical endeavour. Each group in I.C.'s community had, he said, been flexing its muscles and trying it on the rector. This last remark raising the first smile of the afternoon. Lord Penney still didn't know how many students there are at I.C. 3,950 he thinks, of whom 300 are women, he seemed sure of the number of women. We were treated to various facts and figures. 40% of all our students are postgraduates, 22% of all students are from overseas. The academic staff number 688. Lord Penney then talked of new chairs (not the seating kind) and of visiting Professors. Finishing this interesting list he went back to making an address. With a deft but friendly sentence he glossed over the student union mentioning, and only mentioning, the words 'discipline' and 'appeals machinery'. He did add however that by the end of this term the last nine of the student houses would be ready for occupation; so that 1,100 student places would be available. A long and eloquent waxing followed on the Architectural Association, collaboration with the Royal Postgraduate Medical School at Hammersmith and of work shared with Rothamstead Experimental Station. Bringing matters nearer home Lord Penney mentioned the recommendations of the National Libraries Committee affecting the Science Museum Library (newly moved to College Block) and

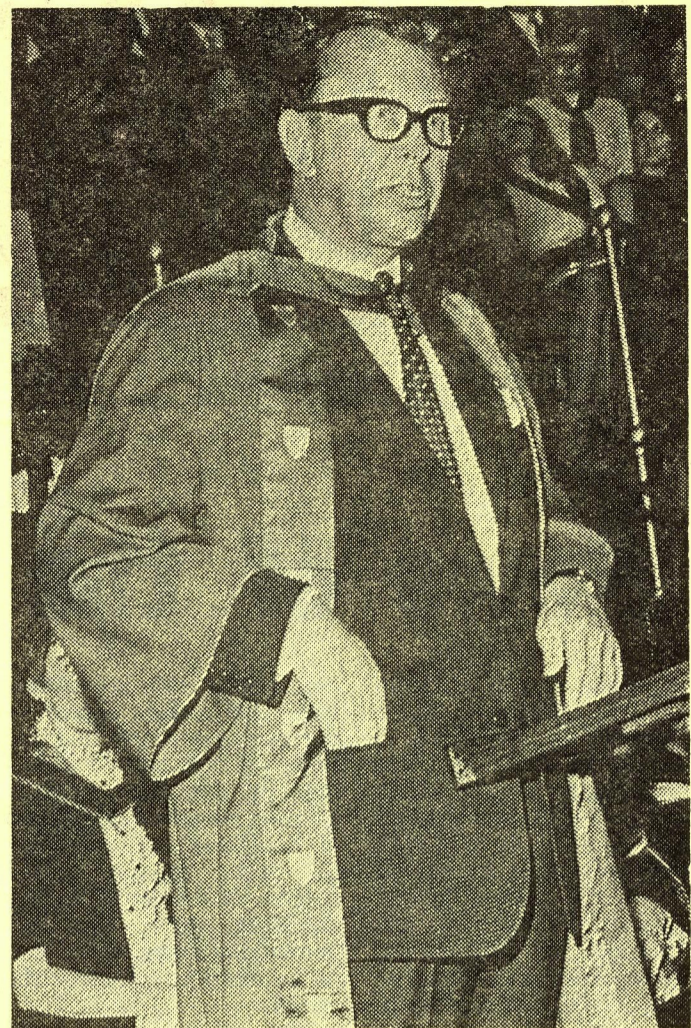
Imperial College's Lyon Playfair Library. The principle being that they should be integrated and administered as a major central library by Imperial College. The matter is being considered! The Rector closed with a few remarks on the college's future as he envisaged it and a final passing remark for the poor unfortunates in the pit. The age group, he said, of the young people who are today receiving their diplomas 'will have an important voice in deciding nationally what we (i.e. the nation) are to do in the future'. Seeing that these same students will by then be paying for the education of their successors, Lord Penney said that 'I await the day with the greatest possible interest'.

His interesting and sympathetic address over, the real *raison-d'être* of Commemoration Day started. With aplomb and discreet bowing the Deans of the various colleges announced their respective numbers of associates. Groans were quietly suppressed as it was gratefully realised that these numbers far exceeded the number of students present. Still the whole rigmarole of walking across the platform, bowing (or curtseying if in I.C.'s main minority group) took quite long enough. The only relief for your intrepid correspondent was the sight of Piers Corbyn quietly contemplating his Worker's Press during the whole process. The Associates over with, the choir relieved the gloom with a thoughtful rendition of Haydn's 'The Heavens are Telling'. Thoughtful in that it was well sung and not too long! The choir actually was one of the bright spots of the afternoon. After all the sight of so many mini-skirted singers certainly quelled the desire to sleep for many in the pit.

Now came the Diplomates. Six hundred and something of them, someone said. An audible groan this time. But the Gods were with us. Only about one hundred were there to be presented.

Professor Francis, the Staff Orator, then introduced and gave short and remarkably humorous accounts of the lives of the five new Fellows of the Imperial College. More memorable of his remarks were those applied to His Excellency Andre J. Clasen — Ambassador of Luxembourg, who Professor Francis described as 'Mines' best ever student' (pause for silence of disbelief) 'from Luxembourg'; and to the activities of Mr. A. R. O. Williams whilst a member of the Rowing Club back in 1926 — coaling locomotive tenders at Kings Cross during the General Strike. No comment.

Lord Nelson rose to address the throng. Expectation beat within most breasts for the pearls of wisdom about to fall from one of our leading industrialists — Fellow of Imperial College, Chairman of General Electric and English Electric Companies Ltd. Perhaps we had been spoilt by Lord Penney's speech and the brilliant wit of Professor Francis.



The content of the speech was mildly absorbing (I make this remark after re-reading it afterwards, only with difficulty could I keep awake during its rendition). However we can only presume that His Lordship's boardroom delivery far excels his public oratory. He spoke of the ever expanding technological knowledge in the world, of the need for technology of markets for firms. In fact a standard commemoration day dry technology orientated talk. Enough said.

The choir led, indeed, sung alone, the National Anthem, and we all filed out to the waiting cameras of proud mums and dads. For the supremely uninformed, Commemoration Day exists according to the student orator's proclamation to commemorate the visit of King George VI in 1945. Maybe we'll have two a year after the Queen's visit to open College block in November. Ah well it was only a thought!

## College Block Settles Down

A special report by our College Block correspondent

As I was walking around the college block a few days ago I realised that perhaps I was a little too harsh in my criticism of the building in an earlier article. As a result the place seems to have lost all interest in life and is already starting to fall to pieces.

Those locked doors I have found are locked because their hinges have broken and the chairs in the buttry which were already scarce now seem to be disappearing and a pile of 'rubble' seems to be growing all the time. It is a great pity that there were no camera crews around the buttry during the first few weeks of term as they would have obtained the perfect schools demonstration film of the formation of fold mountains in the floor (just by the till).

Is Mooney planning to grow his own spaghetti in the junior common room or is it the heat for the benefit of the

botany department to study tropical plants?

These, however, are minor faults; as a whole the major problems of the college block were caused by opening it before it was really ready. After nearly a month the various major amenities in central site have settled down and ironed out their initial difficulties.

### Lower Refectory

A publicity campaign has it seems educated most people in the use of the 'self-clearing' trays. The standard of the food is, in general, good compared with Southside, about the same as the Union. The queues are, except at the really busy times just after the end of lectures, reasonably short, and, there being two service areas, they are fast moving.

### Buttry

(or Chippie) — Still the queues are gigantic at lunch time. The chips are the best

in college but the variety of sandwiches is extremely limited. The hours open have become rather more convenient (10.15 — 11.15 a.m. especially) but late in the afternoon (about 4.15 onwards) the place is nearly deserted (which might cause a shortening of hours!).

### Libraries

The Lyon-Playfair library now covers three floors and has a large number of tables available for working until 9.30 in the evening. The Haldane library now looks huge compared to the old one.

More about libraries in the next issue.

### Music Library

Compared to the old cubby-hole the new music library is nothing short of luxurious. Apart from the larger space available for the display of record sleeves the library now boasts two hi-fi stereo units. For those who recognize terms there are two Garrard 401 decks with SME

arms and Shure magnetic cartridges. There are two Leak-70 amplifiers, two listening booths each equipped with two Maxim speakers and a pair of stereo headphones. Also in the record library (as opposed to the booths) there is a pair of Tannoy Lancaster speakers. In short a really superb set-up. This is primarily for the use of those who haven't got a quality record player themselves. There is just one puzzling feature: with an outlay of about £500 (based on current prices for all the pieces bought separately) it would be reasonable to see a 'dust-bug' on each deck (total cost £2.4.6) to ensure that the records are completely cleaned.

### Bookshop

The service is much quicker now, as the staff don't have to spend quite so much time searching for books. Also a larger range of stationery is now available.

## Conkers Hit by Rain

Rain hit R.C.S.'s first attempt to collect money for carnival Saturday last, cutting down an expected turn out of about 40 to 12. It was raining so hard that at one time the whole procession was almost abandoned, till Motor Club and Jez arrived and were talked into going for a ride, taking a few conkers and tins, to see what happened.

A wet ride followed, and several soggy, conker wielding students dismounted in Kensington High Street to confront the local public.

The original idea was to sell conkers to the public.

As a parting thought on the college block, why is it that an I.C. student stands more chance of seeing the state opening of Parliament than the state opening of the college block?

and have a fight with them, but it was supposed to be on the more leisurely Kings Road, which, of course, would have been deserted in the wet. Unfortunately the people on High Street were shopping, intent on getting to wherever they were rushing, and only the occasional one stopped for a fight. Even so, we often got 2 or 3 bob for a conker and Jez, surrounded by several conker playing students is quite an attraction. At one time a policeman, after looking on interestedly for a few minutes, was almost talked into buying a conker.

So, what appeared to be a drastic failure early on became a reasonable afternoon's collection, realising £30.3.5, three halfpennies and one U.S. cent out of ten tins, with two tins yet to be found.

# Letters

## Disassociation

Dear Sir,

I would like to remind Colcutt, that only 2 constituent college unions 'are planning their typical afternoon of hooliganism on the towpath at Putney' this year.

As far as R.C.S. Union is concerned, the Morphy Day towpath battle does not exist any more, as a motion was passed at an R.C.S. Union meeting last year saying that:

'Whilst continuing to support the Morphy Cup races, R.C.S.U. dissociates itself completely from the towpath battle'.

In my personal opinion, in passing that motion, by a very large majority, R.C.S. Union members showed a great deal more common sense than C. and G. and R.S.M. put together have ever done in their whole history.

Further, I hope that R.C.S. is leaving thuggery and interconstituent college rivalry far behind, and is heading towards a new era of respectability.

Yours sincerely,

John I. Butterworth

President R.C.S.U.

## Distract

Sir,

Last week I had the fortune to try the College Block snack bar for the first time. I agree with Mr. Lambert (Felix — 9 October) that if you hold the tray back to front and stop quickly then cups of tea, yoghurt etc., are launched in a similar manner to aircraft from an aircraft carrier. Also if you hold the tray upside down (or even downside up) everything falls off.

However, if you hold the tray the right way round its purpose is obvious, the tray is designed to fit on a table. This brainwave struck me as I approached the cash desk, so having paid I sallied forth triumphant to look for a place to sit and eat my delicious Mooney chips. After dodging round, over and under customers returning empty trays I had to clear

empty milk packs, yoghurt cartons (you can make lovely lampshades with the Ski ones), knives, forks, plates, chips etc., to place my tray with the gravy, milk and yoghurt quagmire on the table. I then had the pleasure of eating my chips. Only two of us still had our trays.

Why IC students should be so slow to adopt this new technique baffles me. The advantages are obvious:

1) Fewer customers rushing about after emptying trays, hence less time is spent in the snack bar and more customers can be accommodated.

2) Cleaner tables.

3) Improved quicker, easier clearing of tables.

I hope some of the snack bar customers will adopt the correct and polite methods of eating in College Block.

Ross Maxwell.

## Disillusion

Dear sir,

IC, I am embittered and disappointed with you. I now advise anyone not to come here. I have made my mistake. A University is, I believe, a place where a person's horizons and outlooks are widened and enriched. IC, you narrow and stifle your horizons. Being such a large college, specialising so narrowly and being in London, you create an oppressive atmosphere. There is no 'esprit de corps' and a lack of (if you'll excuse the word) loyalty. Instead you have established yourself as a large 'teaching machine' sucking up sixth-formers and regurgitating graduates. Your life largely consists of work, beer and sport — Whoopee! — lectures 6 hours a day, study 2 hours a day and that's your lot.

Important instrument of student representation, appears to be in an insipid state of stagnation — bogged down in its own anarchy. 101 committees organise nothing but 101 tons of waste paper. In a college with an appalling shortage of lodgings, totally inadequate refectory facilities and a parking system rivalled only by Westminster City Council, you merely preach a quasi-revolutionary feeling which does not satisfy the left wing — alienates the right wing and bores the moderates.

For heavens sake, IC, pull yourself out of it. I want a college to be proud of, an advanced, mature college not a feeble weak minded one. You are standing on a rickety pedestal, and I, for one, am going to try and push you off.

Mark M. Wood,

1st year Mining.

The opinions expressed in the letters on this page do not necessarily concur with those held by the Editor.

## Haldane Again

Dear Sir,

Mr. David, in your last edition, omits mention of some facts concerning the Haldane Library, which we feel may be of value to your readers to know.

Before the Haldane Library came into existence, the Union ran a fiction library, staffed by students. The Haldane then became responsible for the administration of these books, with the students still providing some help in staffing.

The student committee exists primarily to look after the Union funds (364 titles were bought last year with Union money), for which purpose a student librarian is elected to coordinate the fiction buying. The non-fiction is the responsibility of the Haldane Librarian, who is always ready to listen to recommendations for books. Last year, however, 36,000 titles were published in Britain alone, of which the Haldane was able to buy 850 — in consequence anyone recommending a book must be able to justify the purchase.

Yours faithfully,

Douglas Irish, Chairman, student committee.

Geoffrey Price, Secretary, student committee.

Hugh Spikes, Librarian, student committee.

## B.G.A.

Dear Sir,

If you went to the Union meeting you may have noticed a B. Hains mutter something about a Business Graduates Association seminar. In case you missed this I have collected one of all the pamphlets and these are available from my room (Linstead 434). Alternatively, you may write direct to the B.G.A. at 87, Jermyn St., London S.W.1. The aim of the B.G.A. is "to help to promote a wider and accelerated understanding, acceptance and use of graduate business in education in British industry and commerce". If you want some FREE advice on PG course, grants and career opportunities in business administration, then I suggest that you contact these people as soon as possible.

Yours sincerely,

Brian Hains

Letters to the Editor are always welcome. They should be of about 300 words in length, and must reach FELIX by no later than the Thursday lunchtime preceding publication. The Editor reserves the right to omit any letter, or to condense it for space reasons.

## Scientists in Industry

Dear Sir,

With the present concern for the broader education of scientists and engineers, it is instructive to consider the opposite approach. This would narrow the training to specific often strictly vocational courses. The present allegations that Scientists are used simply as problem solvers directed by the whims of management would then become the literal truth, although management would also be similarly trained. The effectiveness and structure of such a system would be judged on several grounds.

Firstly, as far as big Industry is concerned, it must be as good as the present system at solving specific problems. Assuming that the competence of the

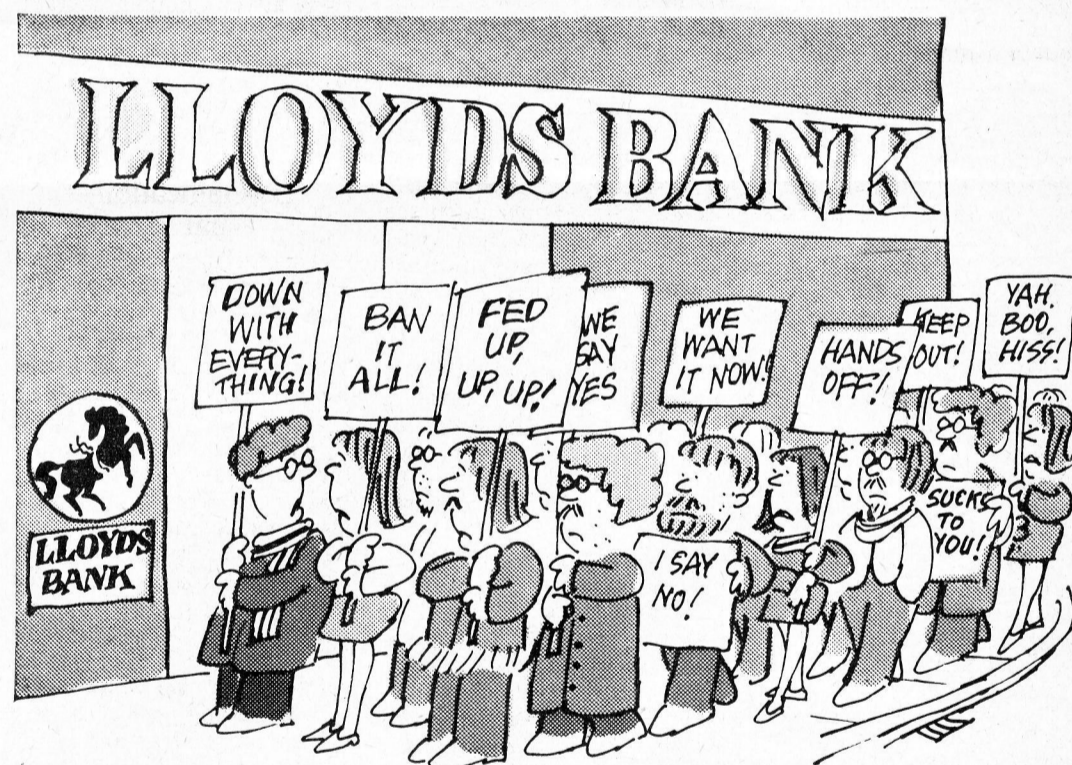
specialising majority will be at least as high as the present more generally trained workers, the difficulty will arise with those responsible for those who are to distribute the work. These people must have a wider, and certainly less detailed education. This indicates a hierarchical educational system, expanding and upgrading Polytechnics C.A.T.S., industry-financed courses, and business schools, at the expense of the Universities, which then become responsible for providing the more generally trained 'overseers' and for research too complex to undertake elsewhere (hence the P.G. population will rise). Higher management, responsible for policy decisions with reference to the forecasts of attainability made by our 'general scientists'; will require a very general education; which in practise will mean an Arts degree.

Observant readers will notice that these postulated changes are not unlike present Governmental policy on higher education. It is reasonable to suppose that given the choice of a fully trained specialist and a generally educated person requiring further training, industry will choose the former: the postulated changes in education and the further degeneration of scientific work then form a vicious circle, as without a very far reaching change of Government policy the preference of industry will once again, as in the past, dictate the form of higher scientific education.

That is why it is important to arrest the progression at once by pressing for broader scientific education at all higher levels, not just University. The alternative is to specialise ad infinitum, which most people will tire of sooner or later.

Yours etc.,

P. Lee Physics 3.



"The trouble with Lloyds is that there's nothing to protest about."

## Lloyds Bank say 'yes' to student freedom.

Because Lloyds Bank don't make charges to students. Our services are absolutely free—as long as your account is kept in credit.

Maybe you don't consider it worth opening a bank account while you're on a student grant. It is worth it. A bank account is by far the best way of planning, controlling and keeping track of your spending however limited your means.

The key is your Lloyds Bank manager. Financial disasters are far more easily avoided with a bank account—plus someone to help you if you do get into trouble. A Lloyds Bank manager tends to be understanding about the very occasional and unavoidable overdraft. And if you're hopeless at managing your money anyway, just ask him — that's his job!

Lloyds Bank looks after people like you

Nearest branch to the College: 67/69 Old Brompton Road, S.W.7



# FELIX

The reaction of those professorial members who spoke at the Board of Studies is indicative of the large rift which exists between the student body and certain authorities on the question of representation. Perhaps it is as well to know from the outset just what the position of the authorities is, and to build our case up from an understanding of this position.

It is important to remember that those professors who spoke all have the same reactionary opinion on representation; an opinion which is not necessarily held by the Board as a whole. In fact following the meeting with the student representatives, the professors who spoke were castigated by other members of the Board for their ill-mannered and unfounded attack on diversification. It would seem that this attack was planned by the few members who did speak, and another valid point is that many of the more progressive elements of the Board were not in attendance at the meeting.

The tone of this meeting should not, therefore, demoralise those who feel that adequate representation is ultimately attainable. Instead, they should remember that the reactionaries have done nothing but harm their case by their ill-mannered reception of the students at the Board of Studies.

## Letter:

Dear Sir, Imperial College Union,  
At today's inquorate Union Meeting the President, Mr. Corbyn in his capacity ex officio as Vice-president of all I.C. clubs called the assembly a meeting of I.C. Debating Society and continued to discuss motions which he intends recommending to Council in Debating Society's name. I maintain that this is both unethical and unconstitutional.

A meeting of the Debating Society was called without the knowledge of either the President of Debates or of any one of the nine committee members and also at a time when a committee meeting was in full session one floor above the Concert Hall. I quote from the Debating Society's Constitution:

- An E.G.M. of the society shall be convened upon the receipt of the secretary of a petition signed by at least 15 members or by a majority vote of the committee.
- Motions to be considered must be handed in to the secretary three clear college days before such a meeting.

The motions discussed are unimportant to this letter. It is not my object to either agree or disagree with them. I fully sympathise with Mr. Corbyn in the difficulties of quoracy in dealing with a largely uninterested Union. But this is not to vindicate his actions. It is clearly unethical to usurp the idea of quorum and to by-pass the Union members in this way.

Taken to its extreme it is clearly undesirable for a committee member to hold a spontaneous meeting, decide on a motion and then in the name of his society recommend it to Council. In the event of this happening the motion holds as much weight as the degree of authenticity in which it was achieved.

Today's events are alien to the aims of the Debating Society. It is a misuse of a society whose objectives are solely to propagate the art of debate, I quote from the Constitution.

"To provide facilities for public speaking and the holding of debates for the interchange of ideas."  
and not for Union policy making.

The Debating Society dissociates itself from all motions emerging from today's gathering of some members of the Society. It also calls upon Council to censure this violation of constitution and reject any motion that they should be presented with in this way.

John R. Reynolds. President.

## Corbyn Replies

Dear Editor,  
Having seen the letter from the President of Debates, I have a few points to make.

1. I did not at any stage call an EGM a meeting of the debating society. This was done by Keith Guy, Secretary of the Union.

2. As far as I am concerned, the meeting was a meeting of 260 IC students, as was suggested by me at the time, and which I stated at the outset, when asked to chair it. I will refer its two decision to Council in this form. I think that this is the best, if not the only way, to deal with the problem of 40 missing students, who were not there because of the unfortunately short time to publicise the meeting.

3. I think it would be stupid and undemocratic of Council to disregard a meeting of IC students of this size.

Piers Corbyn,

(Vice President of Debates ex-officio).

## President's Piece

### UL—Senate House

You all heard about the beating on Tuesday 21st at Senate House, of a UC student involved in a demonstration about the links between UL and Rhodesia. Following UC's EGM on Thursday 23rd, a meeting of 13 Presidents of Colleges was called on Sunday 26th, eye witnesses present at the meeting felt that UL was attempting to whitewash the whole affair in sending numerous statements to Rectors and Presidents — they are still sending them! The demo on Monday 27th led to a call by SOAS (School of Oriental and African Studies) for more EGM's. Our EGM on the 30th was held at rather short notice, but, despite the iniquity later in the meeting, Council will probably send £5 to each of SOAS and UC, and the UL will still take notice of our support for the ULU Students' Representative Council motion. The motions about links between IC and Southern Africa and LEA's hall fees increase will be referred to next Thursday's UGM.

### Diversification—What Next

The EGM on the 30th enabled a very useful and important discussion, following the BoSt meeting on Wednesday 29th, to take place (see elsewhere in FELIX) the results being conveyed to the Pro-Rector the next day. If the student body is to get what it wants in diversification, we will have to clearly and forcibly state our case on each development of it, and we must ensure all the time that your representatives have your support and you know what they are doing—which means convey your ideas and comments to your Academic Officers, Dept, Reps., and me etc! A strong Union means negotiating strength!

Our statement on the **Architectural Association** (where we said that we want our say in all the merger negotiations and that their level of participation should not be dropped merely to match ours) and our unanimous motion for representation of 5 on the BoSt. and better representation on the GOB and F and E will be considered by a special meeting of the BoSt. on November 12th. Their decisions can be discussed at the UGM on November 13th.

### Strong Union

If, as some people suggested at the EGM, the Union decides to make when the Queen comes some public statement or action about our policies and how well they have been met, it would be useless unless it had wide support, which means — make sure you know about and agree (I hope!) with Union policy. Your Dept. reps. have just been elected — make sure that they do their jobs! If you have any criticisms of the Union or anybody in it make them to the Union (letters to Council or Union or tell any official etc.) only then can they be put right. Talking to yourself about anything that is wrong won't help!

There is a large and very comfortable working space in the new **Lyon Playfair library**; is open till late, 9.30, every weekday and till 5.30 on Saturday. Foreign universities seem to work all night — why doesn't IC? Use the new library space!

Present correspondence/phone calls indicate we'll probably have to wait some time for a **zebra crossing** to be put in the wrong place, and even longer for it to be put in the right place!

## THE NEWSPAPER OF IMPERIAL COLLEGE UNION

Phone 01-589-2963 (Int phone 2881)

Editor: Malcolm Williamson

### Assistant Editors:

Production:  
Tony Kirkham  
Features: Ian Carr  
News Editor:  
Dave Chant

Photographics  
Simon Hoyle and  
Andrew Thomas

Business Manager:  
Ian Quarrinton

Circulation:  
Felix and Sennett—  
Roger Lindsay

Printed by: F. Bailey & Son, Dursley, Glos.  
National Advertising: J.E.P. and Associates, 107/111  
Fleet Street, E.C.4, 01-353-3712.

Published by the Editor on behalf of I.C.U.  
Publications Board, Imperial College, London, S.W.7

### Features Assistants:

Steve Giles,  
Frances Campbell  
News and production  
Assistants:

Ian Williams, John  
Bowman, Tony  
Simms, M. G.  
Lambert, Malcolm  
Bailey, Mike Yates,  
Piers Corbyn, John  
Rogers and Ross  
Maxwell.

Typist: Susan

## COLCUTT

This last week has seen the Union Office overloaded with work. Piers Corbyn is blamed for not doing all the mundane work despite the fact that he works twice as hard as anyone else. This is unjust because surely it is not the President's job to handle the day to day matters anyway.

Recently the Union got lumbered with the job of trying to get 100 students to have tea with the Queen when she visits the College, and a further 120 to act as Stewards. The amount of organisation for this is quite considerable especially considering that the majority of students would prefer the afternoon off anyway.

Surely then, if the Rector needs to have students to decorate the visit, he could get his own paid clerical staff to organise this. In general the Admin has far better lines of communication with the majority of students than has the Union.

As a note on this we should be wary that students participation should be participation in decisions and not participation in the mundane work of the Admin. Several Union reps on College committees are asked to do minor publicity and other jobs, despite the fact that they have their own academic work, and usually a fair amount of Union work as well. The Union is there to look after the welfare of students, it is not a branch of the College Administration.

I notice the Union Bar clique have returned to their habit of challenging the quorum at Union meetings to prevent popular motions being passed. This time, John Darley succeeded in stopping a motion supporting the RCA students who wish to use our Swimming Pool without paying an extortionate charge of £1 per term. Obviously the Rugby Club would rather see the pool nearly empty (as it often is) than put to good use by USK. How long will it be before RCA stops the many IC people who use their refectory as a welcome escape from the torture of a Mooney meatball? Even the Rugby Club must eat somewhere.

Although the Mooney empire has increased with the opening of College Block the efficiency and standard have hardly improved. If RCA can provide reasonable food at reasonable prices why can't Mooney? The impotent Refectories Committee cannot do anything worthwhile, so what about a boycott of Mooney Southside? Perhaps that would encourage him to provide a better service.

## UNIVERSITIES FOR THE 1970's

This important weekly series of feature articles discusses the vital issues:

Education for What? How Many Students? How do Universities Differ? Learning and Teaching Methods. Student Participation. Authority and Discipline in the Campus. The Open University. Levelling Up or Levelling Down in Higher Education?

Currently Appearing in The

## NEW STATESMAN

From all good newsagents every Friday, 1s 6d, or by subscription at 78s a year (39s for 6 months)

**STUDENT CONCESSION** Students can get the **NEW STATESMAN** for only 52s a year (26s for 6 months) — one third below full rate. Use the coupon below.

To NEW STATESMAN, Great Turnstile, London WC1

(Delete as applicable and use block letters please)

Please enter my subscription to the NEW STATESMAN for 52/26 weeks at full/student rate. I enclose 78s/39s (students 52s/26s)

NAME .....

ADDRESS .....

STUDENTS please complete: COLLEGE.....

COURSE .....

FINAL YEAR .....

## ODDS & SODS

This page goes under the title of "Odds and Sods". The articles on the page will be short contributions, preferably about 300 words long, of a similar nature to those printed below.

Contributions from any of our readers are always welcome. Send them to "Odds and Sods", Felix, Union Building, preferably 10 days before publication, and certainly at least 8 days before.

## Pius Pontification

It would seem that pontification on the subject of scientists' responsibility is all the rage at IC at the moment. Unfortunately the approach is usually along the lines of "We should not do this; it may have unfortunate spin-offs". This, I feel, is the wrong approach. It would be far more practical for the scientist to say "here is a problem, what can I do about it?" This would be a responsible attitude.

To give a specific case, every scientist is well aware of the population explosion on this planet. We cannot feed the people we already have, yet we persist in breeding like rabbits. Every effort to control this is held back by lack of doctors, lack of drugs and the vastness of

the problem. Then, on top of this, we have blind religious superstitions and ignorance telling some of the worst culprits that they should not effectively control their breeding.

What is needed is a birth control system that the most ignorant and unwilling can use. Obviously with a problem of this magnitude we can not only have voluntary birth control, we need something which must be taken willingly or not. Such a contraceptive would either have to be airborne or in water supplies. Here, a pill would be needed to have children; this alone would stop unwanted pregnancies. Then, by allowing each couple only two children we could reduce the population to a manageable size. This would possibly restrict liberty, but surely it would be a small price to pay to end this senseless breeding.

"Pius X"

## Anarchism V State

To define anarchism is impossible. This is entailed in its very concept — anarchy is freedom, the freedom of the individual — anarchism is the expression of each free individual's ideas and, since no two people's ideas are the same, no strict definition of anarchism can be obtained.

The requirement of anarchy is the removal of all authority, of that God-given right some men and all states seem to think they have to order and direct their fellow men's lives.

The gaining of this freedom will entail the collapse of both capitalist and communist systems, freeing people from their efficient state-run lives. This may seem a fearful prospect to people who have had their ability to think and make their own decisions removed or made redundant by state propaganda and decision-making machinery.

If this dependence of human beings not on themselves or on one another but on an amorphous bureaucracy, the state, is not frightening, then its methods of obtaining your dependence upon it must be.

State conditioning, while it has not yet reached the efficiency of "Brave New World" is the greatest

threat to individual freedom. Its aim is to convince people of the need for a central controlling authority and that without this no form of "civilised" (sic) society could exist. People brought up in this atmosphere concede their powers of thought and decision to the state, and then allow the state to increase its power by removing any freedom they have left under the guise of "protection of the society". Finally the only freedom remaining will be the freedom to obey the state. People will no longer be human beings, but will be mere slaves of the state.

Anarchism, no matter what form (mutualism, anarcho-communism, etc), is fundamentally opposed to all authority. It envisages a society built on co-operation, not coercion, people organising themselves by voluntary agreement. It envisages production for the needs of people, not production returning a profit to the few. It envisages freedom.

Tom Casey (Phys I)

## Y.H.A. Weekend

Last Friday (24th) at 5 p.m. a coach load of 31 people waited outside IC Union for the 32nd. They were ready to commence the first ICYHA weekend of the year.

Later that night, that very same coach devoided itself of its load outside a large studded door, which was the entrance to the castle of St. Briavel's in Gloucestershire. The castle is in fact the Youth Hostel and although parts of the present building date back to the 12th century, the accommodation was by no means primitive and a cheery warden and good food helped all the more to make the stay a pleasant one.

On the Saturday, the party split into various groups, most of whom went down the River Wye (Tintern Abbey seemed the main objective), only to regret it when faced with the climb up to the hostel in the evening. Luckily there was a pub next door to provide entertainment.

On Sunday most people tried an easier walk; in the oppressive temperatures of the day no-one was keen to exert themselves. As the day wore on, and a few more pubs fell to the adventurous, London's noise and fumes grew nearer. The four o'clock deadline was met promptly, and we hope people enjoyed themselves enough to try the next trip.

## Chess at IC

Although chess is often thought of in the popular imagination as an old man's game, a very large proportion of those who play competitively are under 25. This means that virtually all the Universities and Colleges in the country have a chess team, and IC is no exception.

The IC Chess club meets every lunch-time in the room opposite the Halls of Residence Office, at the top of the spiral concrete staircase opposite Southside main entrance, and shares quarters with the Bridge Club. Membership stands at about 60, roughly 50 per cent of whom are active members of one of our teams, and the rest prefer to play just the occasional lunch-time friendly game.

Two IC teams play in the UL League, the first in the Premier Division (of which we are champions) and the second in the First Division. Teams are 8 a side, and matches take place approximately once a fortnight. There is, in addition, a knockout competition known as the Pugh Cup (which name should not be said too quickly), in which both teams compete.

IC is the only London College to enter a team, in fact two teams, in the London League. This is the largest league in the country,

with a higher playing standard than any other league in Britain. Until 1968, the IC team was numbered among the elite of the A division, but then, in a disastrous year, the first team was relegated to the B's, and the second also went down from the D to the E division. Last season both teams made valiant but unsuccessful attempts to re-establish themselves. The second team was very unlucky here, defaulting a crucial match before the fixture list arrived!

With the end of last term, several of the best players left College, and although an influx of freshers has brought the second team up to strength, the first team is considerably weakened, and may have difficulty preventing the drop into the London C Division.

The first team has, in fact, made a rather hesitant start. On Friday, 17th October they played Camden Town in a match, as yet unfinished, which may end up in an IC victory, whilst on Friday 24th they played Streatham in another unfinished match which looks like it will be lost.

The second team opened on Monday, 13th October, against Atheneum IV, and won convincingly 6½ to 3½, despite losing two boards on default. A subsequent match against West London II stands at 5 to 4, to the opposition, but indications are that IC will win the remaining game and thus square the match.

## WHAT'S ON

**THURSDAY, 6th NOVEMBER**  
Scout & Guide Club, Mines 303, 12.35. Come and choose the destination of the summer expedition 1970.

**Wellsoc Film Show.** Blow up/ Lord of the Flies. 3/-.  
**FRIDAY, 7th NOVEMBER**  
Discotheque, Weeks Hall Lounge from 8.00 p.m. Free food, free admission, cheap drinks. Organised by Overseas Students' Committee.

**Falmouth Hall Party** — group, disco-bar, Men 5/-, women free.

**SATURDAY, 8th NOVEMBER**  
IC Hop in the Union tonight features Blossom Toes.

**MONDAY, 10th NOVEMBER**  
"Turn and Live", Rev. Peter Lapage, ME 542 at 1.10 p.m.  
**Indian Cultural Evening,** Sitar recital by Viram Jassani, songs by Prabha Atre, ME220, 7.30 p.m., 5/-.

**TUESDAY, 11th NOVEMBER**  
Night Photography in London. A Phot-Soc group expedition leaves Physics level 2 at 6.30. This and every Tuesday; Go Club meets in Southside Upper Lounge at 8 o'clock.

Felix Press Meeting will take place in the Press Office, top floor Union building, from 12.45. New news-hounds and any general helpers are always welcome.

**THURSDAY, 13th NOVEMBER**  
"The Economic Crisis", Geoff Pilling, Socialist Labour League, EE 305 at 5.30 p.m.  
Scout and Guide club: a talk will be given by a member of the Prison Service, Mines 303, 12.35.

Student Residence Committee, 2.30 p.m.

Copy for what's on for the period up to December 3rd

should be in to the Felix rack in the Union lower lounge by next Monday if possible. What's on cards are available from the Press Room at Press Meetings. Felix Press Meeting happening as usual. Prospective news-hounds should come to the press Office on the top floor of the Union building at 12.45 p.m.

**Go club:** This and every Thursday, Southside Upper lounge, 8.00 p.m.

**FRIDAY, 14th NOVEMBER**  
Film Soc: Tom Jones and Une Femme est Une Femme, Union Concert Hall, 7.30 p.m., Members 1/6, guests 3/6.

**SATURDAY, 15th NOVEMBER**  
Tonight's hop in the IC Union building will feature the Edgar Broughton Band.

**MONDAY, 17th NOVEMBER**  
"I Believe . . ." Christian Union members, ME542 at 1.10 p.m.  
JURGO meets for the first time this session, 5.00 p.m.

**TUESDAY, 18th NOVEMBER**  
Winetasting Society — Champagne — Physics SCR (level 8) at 5.40 p.m.

**Print Evening.** Bring any of your prints to Physics 630 at 6.30 — Photo. Soc.

**Felicity Press Meeting** in the Press Office, top floor, Union building, at 12.45 p.m. Anyone wishing to help produce Felicity should attend. News-hounds — sniff your way here!

**Railway Soc.** "Railway Break-down Work", given by Mr. S. C. Townroe, at 5.40. Room to be announced.

**WEDNESDAY, 19th NOVEMBER**  
IC Folk Song Club present Cy Grant in the Union, top floor, at 7.30 p.m., Members 3/-, others 5/-.

## Exploration Society Revived

Some of you may have noticed the decline and fall of the I.C. Exploration Society. Last year, the Society was completely inactive and this year seems non-existent. A completely new and enthusiastic Committee has been formed and we hope to resurrect the Society. Basically, it is to be concerned with encouraging and helping in all ways possible expeditions from Imperial College. Lectures will also

be held from time to time.

We would be interested to hear from anyone who has an idea for an Expedition or, of course, anyone generally interested in joining the Society (contact via Union Rack to S. Sparks (GEOL. II)).

We would like to impress on you that Exploration does not necessarily mean taking an activity from the climbing/surveying/mapping format. The College has a very enthusiastic exploration board, with whom the Society has had and will have close connections. The Board

is prepared to finance any venture, as long as it contains the elements of initiative, adventure and competent organisation. Any original idea involving cars, photography, tricycles, climbing, sailing, bird-watching, in fact virtually any activity could be a potential Expedition and will be considered by the Board.

If you have no idea how to set about organising one, contact us. That's what we are here for to give and swap ideas, advice and information. If you have ever thought of canoeing down the Orinoco, studying flora in the Hindu Kush, winning the London-Sydney Marathon or perhaps something less exotic, just approach us and you might realise your dreams.

The Society will officially be active on November 25th (to be confirmed) with a lecture by Dennis Kemp on the Bangor College Expedition to Peru, I have seen this particular lecture myself and it uses highly unusual and entertaining audio-visual techniques and, Photo. Soc. note, the photography is really superb. This Expedition was organised and achieved by students and they managed some excellent climbing.

R. S. J. Sparks (GEOL. II)

## LAMLEY'S

AMLEY'S  
for your—  
BOOKS  
ART MATERIALS  
PAPER BACKS  
STATIONERY  
\*  
1 EXHIBITION ROAD, S.W.7

### Read any good books lately?

Thoms **H**ardy  
Eric **A**mbler  
D. H. **L**awrence  
Margaret **D**rabble  
Isaac **A**simov  
P. H. **N**ewby  
Elya **E**hrenburg

### LIBRARY,

Second Floor  
Library Block

Open Mon.-Fri., 10—5.30

# FOOLISH SCHOLARS?

*We asked Mike Muller, 2nd Year Guildsman, to write a features article for us, and let him choose his own subject. The result is below; it concerns everyone training to be a scientist or engineer and is a balanced observation on the scientists role in society.*

There is much talk at present about 'social responsibility in the sciences'; the 'scientists' lack of conscience'; associated with which we have the so-called 'crisis of the city' and the growth of the 'technological jungle'.

Scientists and technologists have been singled out by the public as chief culprits in the 'rape of the environment'; pollution of the ecosphere is slow mass suicide we're told, and **you**, the boffins are leading it. Even concerned scientists are predicting an early doom for mankind as a direct result of the tampering of their fellows with natural processes that aren't understood.

What are the foundations for this outburst of opinion? Well, to take some general categories, we have pollution of the air, of the waters, and lately thermal pollution has been realised to be as inherently dangerous to the environment and life in general as the other two. More specifically, 'scientific' farming practices are said to have already upset certain biological cycles due to the excessive and indiscriminate

use of nitrate fertilisers and caused such an accumulation of DDT in some species of wild life that it has now been outlawed as a major danger to seagulls and fish in the U.S.A. where it was once the panacea for all the farmers pest problems.

There should be no doubt to anyone with eyes that a problem, possibly a very serious one, exists and is escalating in the fact of indifference. What then can we do, as future (or present) scientists and technologists, about this state of affairs?

I suggest that, for a start, we introduce a new concept into the game of technology. We must recognize that the natural environment has some intrinsic value. So why not ascribe a monetary value to the ecosphere and regard it as part of your technological capital. Thus when you come to design, say, a chemical works, raising the level of pollution in the atmosphere would be equivalent to destroying some part of the ecosphere and the cost of this section of ecosphere would be a part of the capital costs of the project. Now, you are in a position where you can weigh up the profits to be gained by raising the

material 'quality of life' against the corresponding decline in the life-supporting capacity of the ecosphere. Perhaps it would be profitable to keep the population permanently on the brink of choking to death if this stimulated sufficient demand for your air-purifying units. The possibilities are boundless. And you would be secure in the knowledge that all your pet projects would eventually become possible as the fall in value of the ecosphere (due to capital depreciation at 6% p.a.) reduced the cost of destroying it.

## Planning Utopia

But this is frivolous. The point I'm trying to make is that there is little consideration given to the importance of maintaining our environment (when did you last have a lecture (in Engineering) which emphasised this aspect rather than the economic aspect of a project?). Material criteria are no longer sufficient in determining the direction to be taken through the multiplicity of possibilities open to us in technology and an improvement in the material

standard of living no longer seems to be such a self-evident virtue. The stage has been reached where we can begin to, need to, 'plan our Utopia' (Marcuse). To do this we need to look at our subjects not only in isolation but also as part of society and question our roles in the society.

Kant, a while ago, expressed this problem in the terms relevant for his era when the search for 'pure knowledge' was a perfectly acceptable role.

'To yield to every whim of curiosity, and to allow our passion for enquiry to be restrained by nothing but the limits of our ability, this shows an eagerness of mind not unbecoming to **scholarship**. But it is **wisdom** that has the merit of selecting from among the innumerable problems that present themselves, those whose solution is important to mankind'.

Now all I can see at IC, and all that is taught seems to me only to lead to the blind application of arbitrary criteria without any consideration to their place in the gestalt; to lead in fact to producing individuals whom Kant might describe as foolish scholars.

Am I wrong? I hope so.

# INFORMATION

**MUSIC.** The entertainments committee hope to maintain a good standard in groups at the Saturday night dances this year. Those booked for the rest of this term are:

November 8th Blossom Toes and Alexander Patton  
November 15th Edgar Broughton Band  
November 22nd Prince Edward's Magic Theatre  
November 29th Deep Purple  
December 6th Bob Kerr's Whoopee Band

On November 28th East of Eden and the Battered Ornaments will be playing at the R.C.S. Carnival.

**SCHOLARSHIPS:** If you think you might like a period of study at an overseas university the British Council publishes a booklet giving details of 200 awards tenable at foreign universities by British Students. The British Council, State House, High Holborn, London WC1.

**BOOKS:** It is sometimes nice to put aside all the heavy reading and look at something simple. A good place for this is The Children's Book Centre in Kensington Church St. They have a really wide selection of books which enable you, for a short time anyway, to recapture your childhood.

Mayflower paperbacks are shortly bringing out a paperback version of Alice in Wonderland with the original illustrations for only 5/-.

**JUMBLE SALES:** Jumble Sales can be a very enjoyable way of spending a Saturday afternoon. Look in local papers like the Kensington news for details.

**PUBLICATIONS:** If you've always wanted to be a writer or get your thoughts into print there is ample opportunity in the college.

**BEENO** is produced by the college arts group HENRY. It is produced on an occasional basis, only coming out when someone feels like putting it out. It contains poetry, stories, articles drawings and photographs by people in the college, but unlike Phoenix it contains everything submitted; there is no editorship. Go to a Henry meeting if you would like something in.

**CEFE** — stands for coming events, future events, it is produced weekly by the left wing political societies. It provides comment on things happening in college and gives notice of future happenings. It is distributed free to anyone who wants it. Send your name and department to Mike Muller 458 Tizard Hall. Anyone is welcome to help write it on Thursday evenings in 458 Tizard. CEFE is worth reading even if you aren't politically minded, since it usually contains interesting pieces of college news which don't find their way into Felix.

**FELICITY** is the Felix late news produced on the Wednesday preceding Felix publication day by Tony Kirkham and John Bowman whom you should contact if you have some last minute news.

**FELIX** you know about, people are always needed to write features and reports and to root out news. Come to a press meeting on Tuesday or Thursday lunchtime or contact Malcolm Williamson, in Linstead Hall, Room 634.

Guilds newsletter is one of the constituent college news-sheets. These contain constituent college union news and are usually available from year reps., information about writing for them can be obtained in the relevant union offices, or from Eric Rossiter, for Mines, Howard Matthews, Chem., for RCS.

**PHOENIX** is published twice a year and contains a selection of poetry, articles, photography and so on by people in the college. Contributions should be sent to Chris Lewis in Linstead.

assessment really test the overall attainment of its objectives. Such encouragement could probably only come successfully from the Board of Studies." It is important to realise that the Board of Studies control the real power in the academic affairs of this college. For this reason it is imperative that we have some representation on the Board. Unfortunately, however, progress in this direction has not been altogether satisfactory.

A further suggestion from the report was that the Academic Affairs Officers should report periodically to

the Deans Committee. In this respect, the Deans are the "opposite numbers" of the Academic Officers, hence any consultation with them would be of considerable value. We intend to pursue this suggestion in the very near future.

After one hour and eleven minutes the meeting closed (How's that for a Council Committee?), the next Hains and Walton Laugh-In being scheduled for Tuesday, November 25. Anyone interested in having an academic affair is cordially invited to come along!

**BRIAN HAINS**

## 3W1 Again

"The world will face a major hunger and unemployment crisis in the next 15 years unless rich countries drastically change their agricultural and trade policies".

This is the warning theme of a report issued this month by the United Nations Food and Agricultural Organisation. Yet the crisis is already with us with 80% of the world's population starving, whilst we, the rich 20%, sit back in our profit-craving western economic system, and watch the poor become poorer. Foreign 'aid' given by Britain and most other western capitalist countries, more often means private investment so that nice fat returns are made. Thus instead of the third world countries becoming richer, their economy remains static whilst their resources of raw materials are exploited for gain, to go straight into the pockets of the rich investors. Thus the gap between the rich and the poor countries grows, as it has done in the past decade.

In mediaeval England, it was the poor who paid the taxes, and the rich who received them, whilst the "com-

penation" paid to the peasants was the privilege of owning a small plot of land, and the privilege to work on the vast Squires' land, at as low a wage as he could possibly pay them, without their starving to death.

To me there is a great similarity between the local feudal system of Britain's Dark Ages, and the worldwide feudal system of the 20th Dark Age.

The ultimate aim of 3W1 is not simply to raise money towards O.A., but to urge the government to modify and increase its O.A. programme, eventually to attain the target set by the United Nations of giving 1% of our gross national product, (0.42% at the moment), and to give it in a way that does not ask for large returns. We are therefore asking students to give 1% or more of their annual income to O.A., and by the time that 30,000 students are doing this, it will become a considerable political force, and also a large financial source. Already over £1,000 has been raised in I.C. If you wish to give or to help, please contact me.

**JOHN THOMASON**

## Academic Affairs

On Tuesday, October 21, the Imperial College Academic Affairs Committee held its first meeting. To celebrate this momentous occasion, it was decided to elect Mike Walton (RSM Acad. Off.) to the posts of Secretary, Treasurer and General Dogsboddy of the Committee.

The purpose of the meeting was twofold. Firstly, it was to discuss the co-ordination of academic affairs within Imperial College, and secondly, to formulate a number of general policies. Some administrative changes were introduced to streamline the workings of the different academic committees, the most important being that specific people now have responsibilities for specific jobs.

The field of Audio-Visual Aids is looked after by Tom Woosnam (Union Rep). This means that he is concerned with the collecting and collation of information on these Aids, with particular reference to their potential application in the undergraduate teaching at IC. Judith Walker (Union Rep) will be following with in-

terest the development of the course unit system, whereas the whole gamut of Vacation Training falls under the hands of Harald Marshbaum (Guilds Acad. Off.).

One of the major purposes of the Committee is to assist the general process of feedback from the student body to the staff. It is hoped that this will be done through the cooperation of the newly elected IC Department Reps. We also hope that both staff and administration will see the Committee as a means of sounding out student opinion in a speedy and accurate manner. We have every desire to work in full cooperation with the staff and administration towards the building of an academic community.

The report on the Conference on Learning and Teaching was read out, from which I should now like to quote. "The most basic long-term suggestion is that each Department should be encouraged to examine its objectives in teachings in its own field, to consider whether its present methods are the best suited to those objectives and to decide whether its methods of

# WAR OF THE SEXES

Women are what men wake up to find themselves married to. They too have 2 hands and 2 feet, but also 2 hairpieces, 2 sets of false eyelashes and a whole paraphernalia of other odds and ends. Not content in being exactly what the others are, they also insist on doing exactly what the others do.

Though a woman finds it hard to keep a secret, for women have a keen sense of rumour, one secret she can keep is her age. Between 30 and 40 is the longest year of her life. But the years that a woman subtracts from her age are not lost. They are added to the ages of other women.

A woman is quite content with very little, if that little is precisely what she wants, if not, then nothing is enough. The only way to get on with her is to let her imagine that she is having her own way. The only way to do this is to let her have her own way. Every woman is wrong till she cries, then she is right — instantly. A woman never admits she has lost an argument. She just thinks she has failed to make her position clear. She has a great sense of right and wrong, but little sense of right and left.

A woman takes 20 years to make a man of her son, and than another woman takes 20 minutes to make a fool of him. Having made a sheep of him, she always tells him he is a lion with a will of iron. She works 10 years to change a man's habits, and then complains that he is not the man she married.

It is true that woman gives to man the very gold of her life, but she invariably wants it back in small change. It is hard to teach her that even a bargain costs money.

It is often woman who inspires man with the great things she will prevent him from doing. She is vogue on the outside and vague on the inside. She is very much akin to a shadow: follow her she flies, fly from her she follows. Love is the delusion that one woman differs from another, and marriage is the dissolution of any such idea. On one issue, at least, men and women agree: they both distrust women.

Women are not much, but they are the only alternative sex. So here's to woman. Would that we could fall into her arms without falling into her hands.

DAVID DANGOOR



Men are what women marry. They have 2 hands, 2 feet and sometimes 2 women but never more than one dollar and one idea at a time. Like Turkish cigarettes they are all made of the same materials, the only difference being that some are better distinguished than others.

Generally speaking, they can be divided into 3 classes: husbands, bachelors and widowers. A bachelor is an eligible mass of obstinacy entirely surrounded by suspicion. Husbands are of 3 types: prizes, surprises and consolation prizes. Making a husband out of a man is the highest plastic art known to civilization. It requires science, sculpture, common sense, faith, hope and charity — mostly charity. It is a psychological marvel that a small, tender, soft, violet scented thing like a woman should enjoy kissing a big, awkward, stubby chinned, tobacco and rum scented thing like a man.

If you flatter him you frighten him to death; if you don't you bore him to death. If you permit him to make love to you, he gets tired of you in the end; if you don't he gets tired of you in the beginning. If you agree with him in everything he says, you cease to interest him. If you argue with him, you cease to charm him. If you believe all he says, he thinks you are a fool, if you don't, he thinks you a cynic.

If you wear gay colours and a mini-skirt, he hesitates to take you out. If you wear a little brown beret and a tailored suit, he takes you out and stares all evening at women in gay colours and mini-skirts.

If you join him in his gaieties and approve of his drinking, he swears you are driving him to the devil. If you don't approve of his revelling and urge him to give up his gaieties, he vows you are ice and snow.

If you are a clinging type, he doubts whether you have a brain. If you are a modern, advanced (and intelligent!) woman, he doubts whether you have a heart. If you are silly, he longs for a bright mate; if you are brilliant, he longs for a playmate.

Man is just a worm in the dust. He comes along, wriggles for a while, and finally some bird gets him.

LINDA KHALASTCHI

## FRUSTRATION, BRUTALITY, AND A DIRTY LAUGH

University audiences for films are now so important that 20th Century Fox have taken on 23 year old Sociology graduate Tony Orfredi as liaison officer to British University Film Societies. This week he organised on behalf of Fox an advance screening of 'The Magus' for film editors and Film Presidents of various student bodies. This is going to be a regular feature and will give Felix an opportunity to publish their review in advance of the dailies.

**The Magus** from John Fowles' novel is set in the beautiful Greek island of Phraxos and tells of the encounters of an English schoolmaster, Nicholas Urfe (Michael Caine) with Conchis (Anthony Quinn), well seasoned foreigner and Lily (Candice Bergen). A frustrating book has been turned into a somewhat less frustrating movie, which moves rapidly from one innuendo to the next by way of passionate encounters with Anne (Anna Karina), an airline hostess, to some gory scenes with the nazis and culminating in the final anguish of Nicholas and Lily.

Conchis a wealthy intellectual owns a villa on Phraxos, to which he invites many guests including Lily and Nicholas. Gradually during the course of the film the guests are introduced to Nick, who becomes more and more confused at each turn in the road. Just as he thinks he's solved the mystery, the whole direction of the game is moved by Conchis, who continually springs surprises on Nick. The film ends as it begins with a quote from T. S. Eliot:

"We shall not cease from exploration  
And the end of all our exploring  
Will be to arrive where we started  
And know the place for the first time".

This really sums up the whole enigma that is the Magus. "Was it real? someone asked after the show. "What was it all about?" was another comment. Most people when they leave this film will feel that they have been entertained, but at the same time they may be a little non-plussed and will almost certainly feel cheated. How should the film end, even the producer didn't know, so like the

book he plays with your emotions and then lets you down. If one cares to analyse it one could put a hundred and one interpretations on it, but the simplest thing, I think would be to say that Conchis wants somebody to feel the terror that he felt during the war when he was told to execute three Greek Commandos by beating them to death. He couldn't do it and so the Germans shot 80 hostages and he was left to fight his conscience for the rest of his life. He desires passionately to share this pain with someone and chooses Nicholas as a suitable victim. Nicholas must face the test. Will he punish Lily for her animalistic unfaithfulness, or will he throw away the cat o' nine tails like Conchis did the gun.

The screenplay is almost completely different from the book and of course weak by comparison, which is strange since John Fowles wrote it. Anthony Quinn makes a star performance as a typical Greek, which makes up in my opinion for the miscasting of Michael Caine, whose cockney accent tends to stretch the nerves. This is an intriguing film well worth a visit.

A film that should really have been left on the stage is **The Royal Hunt of The Sun**. There is splendour and savagery in Peter Shaffer's epic drama in which General Pizarro (Robert Shaw) leads an expedition to find the South American kingdom of gold. The brutality of his Spanish army is stomach turning as they strike down a thousand unarmed Incas. The drama occurs in the relationship between the captured Inca God King Atahualpa (Christopher Plummer) and Pizarro. The situation grows intense as Pizarro having promised Atahualpa's freedom in exchange for a room full of gold, has to search his conscience when he finds out that if Atahualpa goes free all his men will die. There is high drama here and some good acting from Christopher Plummer, but I wonder if this is really film material.

**The Virgin Soldiers** takes a sharp look at boys at war. Playing around with prostitutes may be fun — watching your friends being killed isn't. If you feel like a dirty laugh don't miss this one.

CHRIS LEWIS

### Basket of Light

The Pentangle,

Transatlantic, TRA 205.

Nine tracks, including five traditional folksongs and four more modern pieces. The main feature is the intricate Jansch — Renbourne guitar work contrasting with Jacqui McShee's incredible voice. Bert Jansch sings on several tracks, and it takes some getting used to, sounding reminiscent of some of the vocal work on the 'Incredibles' LPs, but in many ways it adds substance to the songs which would otherwise sound ordinary. Two very similar songs are "Once I had a Sweetheart" and "The Cuckoo" but the best is probably "Hunting Song" which features all the musical talents of the group. All instruments played are acoustic but there are one or two examples of multiple recording. In short, it's good value as a stock of LP of sweet folk music, but no great step forward.

**King Crimson's** new LP on Island is a good example of how music can be both progressive and pleasant to listen to. Although there are only five tracks, any one is completely different in style

## RECORD REVIEWS

from the rest, but some drag on far too long and none have anything resembling a good finish. Nevertheless, it's one of the most original records produced recently, and shouldn't be pushed to one side as being "by one of those new groups".

**Led Zeppelin's** second LP, out Friday, October 24th and called **Led Zeppelin II** (sic), is a classic example of a record that must be played on stereo gear to get the full benefit of the recording. For those who really like solid music with strong vocals and guitar, this record is a must.

The front side opens with "Whole Lotta Love", a rocky number that has so much stereo panning that when I listened to it on headphones my brain nearly fell out of my head. The synchronised transitional balance is evident all the way through the LP especially on my favourite track "Ramble On".

For those of you who haven't heard of the group you should try to hear them. It is the type of music that really grips you or bores you to death. It grips me alright!!

LUNCHTIME O'DISQUE

# THE MALTESE EXPEDITION

Words: Claire Denis Barnes and Peter Newman

"Day 4: Subjects appear quite normal! That is, large amounts of food have been consumed and requests for more are being made with alarming frequency".

One might wonder why the eating habits of two people should concern a twenty strong expedition team and six medical attendants or require three years planning, or seventeen aqualungs dumped on a barren, rocky peninsular!

However, perhaps this will become clear when we say that these two men were actually living 20 feet below the Mediterranean off Marfa Point, North West Malta. Their world was a small inflatable house, moored in 35 feet of water, looking very much like a cottage loaf. Its strength lay in a tough nylon/neoprene skin attached to a steel frame. It could be well described as an 'underwater tent'.

The house was moored 130 feet from the shore, but it could have been 130 miles, for it was completely isolated with no airlines or power cables.

The heart of the system was a box, about the size of the average television set. This contained the life support system which kept the two subjects alive and healthy. Inside were a pair of emergency batteries which powered a blower unit; the interior lights; and an air purification unit containing soda lime to remove CO<sub>2</sub>

from the atmosphere and activated charcoal to absorb trace impurities.

Oxygen was 'bled' into the house from a cylinder resting on the sea bed. The main power unit which was also outside the house, was a fuel battery which generated electricity directly from H<sub>2</sub> + O<sub>2</sub> gases. It could run unattended for three weeks. The life-support module was exhausted after twenty four hours and was replaced daily.

The expedition was run jointly between Imperial College, London University and Enfield College of Technology. The teams arrived in Malta towards the end of July bringing the first of the structures strapped to the roof of the Enfield College Landrover. Soon the base camp was established on Marfa Point and by early August the first underwater house S.D.M. Mark I, was moored at 30 feet in 70 feet of water, the life support units had been assembled and tested.

The Mark I house had taken four months to design and build. Many problems had arisen: for example, the construction of a frame sufficiently rigid to take the loads involved (the displacement of the house was estimated at 8 tons), yet light enough to be carried by four persons. Another complexity was the prediction of the behaviour of the skin when subjected to tensions as high as 100 pounds per inch. It was this last problem that proved the most difficult to solve; quite a number of mistakes were made initially, but we had learnt by our experience; a new skin had

to be built before we left England and arrangements were made to construct a new type of frame in Malta, the combination of these becoming the S.D.M. Mark II house.

By August 17th, we were nearly fully prepared to begin the underwater living experiment. The Mark I house had been submerged for a week and it appeared to be as solid as a rock; personnel had been inside it for periods of two or three hours at a time, assembling the complex internal frame supporting bunks, table and hoist, and during this time the life-support modules had worked perfectly. The telephone link to the house had been established and conversation between habitat and shore was extremely clear. On shore, members of the support team had been allocated their tasks in the event of any mishap, and a rota had been drawn up for the continuous watch which would be kept once the experiment began.

Wires for lighting, telephones and search-lamps snaked over the rocks; the subjects were going yet again through the procedure for using CO<sub>2</sub> & O<sub>2</sub> meters.

A gentle westerly breeze had been blowing all day and a long low swell had developed. Late in the afternoon, the wind strengthened and the sea had become rougher with frightening speed. White horses came racing into the bay and breakers dashed against the low reefs. Two of the most experienced divers kitted up and were in the water as quickly as possible to find

that the structure on its long mooring ropes was swaying about and jerking angrily. No attempt was made to enter the house, all we could do was to wait hopefully for the sea to subside.

That night, freakish, gale-force winds swept across the island and the morning found 15 feet waves rolling into the bay, the shore installations damaged, tents down, large areas underwater and the diving ladder demolished.

By the following day the seas had calmed down enough for a brief recce dive. Our worst fears were confirmed, three of the six mooring ropes had snapped, the house lay on its side, partly deflated and with the fabric pierced by the internal hoops. The house, its mooring, and the life-support unit were completely wrecked.

However, progress had been made on the S.D.M. Mark II house during the past month. A frame had been quickly built of a simpler design, relying on a more sophisticated mooring system to spread the loading. The tricky task of attaching the skin to the frame had fortunately been completed the previous week.

Within only one week of the disaster, it was 'all systems go' — The Mark II house was moored at 20 feet and the fuel cell was on the sea bed ten feet below; a life-support unit had been installed and internal fittings had been built up on the spot, using 'Dexion'.

However the Mediterranean had not finished with us yet! Once more a long swell built up, the prelude to an even more violent storm. However, the few brief hours' warning were sufficient to weight down the fuel cell, remove the internal structure and deflate the Mark II to tie it down onto the sea bed. We watched the storm increase in ferocity — then without warning it subsided suddenly and the air was perfectly still and the sea like a mill pond.

Due to these delays, we were now working against the clock to get the divers into saturation. The expedition personnel were working fourteen and fifteen hours a day, and late in the evening of August 31st the first diver went down to the house. There are as yet no text books written on how to run an underwater house, nor even any tables stating when a diver becomes saturated. All we can say is, that, sometime during the next couple

of days we crossed this line.

The economics of saturation diving have been spelt out many times, the decompression time for a saturated diver is a constant, independent of the working time, so the ratio of working time to decompression time can be made large.

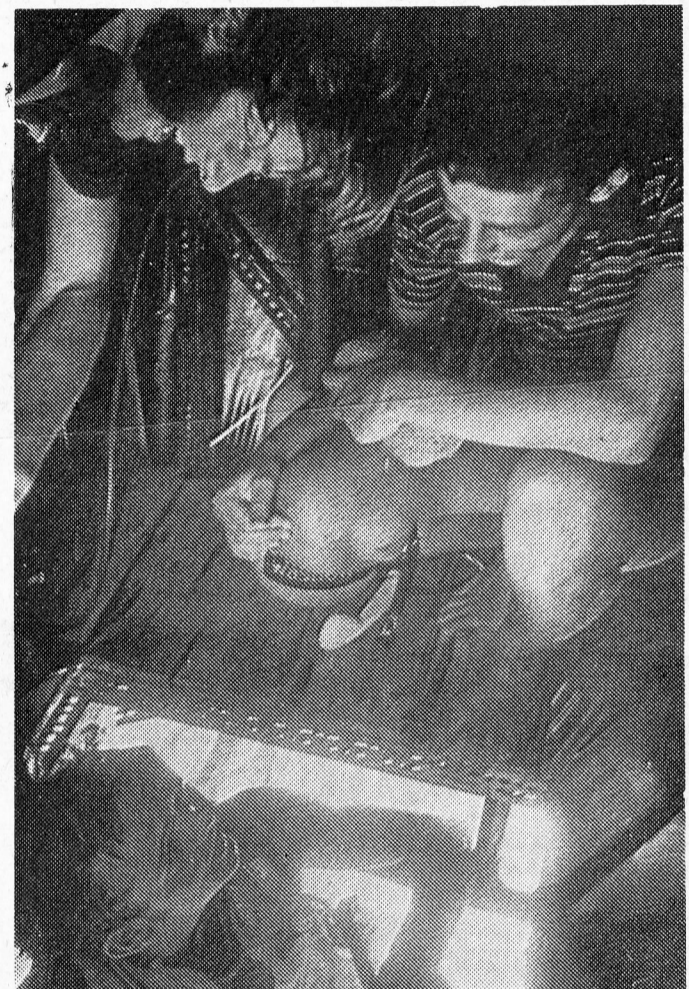
We were not working at depths where this economic argument could be applied, but this does not detract from the validity of the experiment.

From 1st — 4th September there were two divers living in the house.

no complaints of sleeplessness.

In this thoroughly satisfactory environment, work began. The first priority was to complete the interior arrangements and thoroughly check over all the equipment. A 'wireless' telephone link, the first of its type to be used, was established to the shore. When these initial tasks were satisfactorily completed, the divers started the work in hand.

The main project was a research experiment on diver hearing; the sea is not the 'silent world' of popular myth, a diver can hear



Diver's return to the House

Life inside the house was similar to that of a small caravan. On entering, the diver left his aqualung tied to the mooring ropes, and climbed in. A freshwater shower, a towel-down and some dry clothes, usually shorts and shirts, would enable the diver to remain in a dry and pleasant condition.

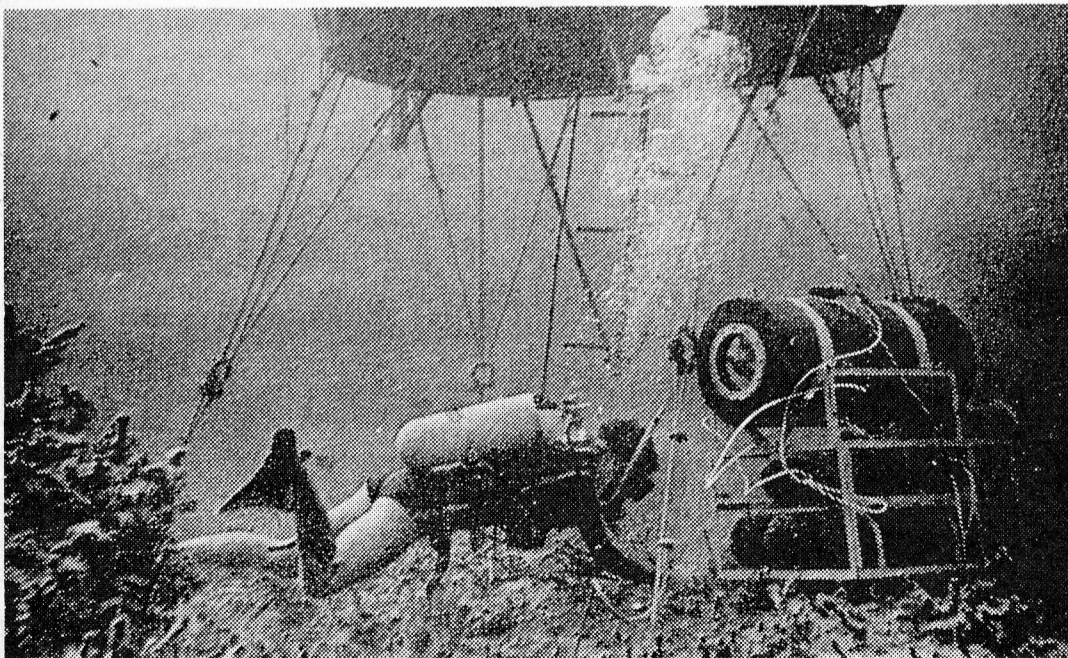
Food, and even wine, were brought down regularly and the occupants brewed up their own coffee and chocolate, and often invited visiting divers to a 'cuppa'.

Because air was not being pumped into the house, the source of considerable irritation in previous experiments, that of the sound of air bubbling out, was avoided. All was quiet except the purring of the air circulation, the occasional splash of a fish jumping into the house and the ubiquitous 'snapping shrimps'. The aquanauts' sleep was disturbed once each night at about 4 a.m. for readings of CO<sub>2</sub> & O<sub>2</sub> concentration. Apart from this, there were

the sound of his companions breathing above the general crackle of the aforementioned noisy shrimps!

Tests were carried out 'in the wet' by divers from the house and delicate instruments were used 'in the dry'. Many of these operations were recorded on film, some of which was shown on television in Britain; also a telephone call was made from the house to Imperial College announcing our success.

The house was in operation for nearly a week and five divers spent over 200 hours underwater, living in the habitat. The longest continuous period spent by one diver was four days. This was considerably less than we had hoped. As a result the organisers are considering the possibility of operating the house in United Kingdom waters. The team is still largely complete and much of the equipment is readily at hand. All that is required is the means to bring the house back from Malta and continue the experiment in Britain.



Working outside the Undersea "House"



# Sports Felix

Edited by John Darley

## EDITORIAL

This year will probably see a big step in the development of the concept of the University of South Kensington. It is worth considering, therefore, at the beginning of the year the effect that will be felt at IC particularly in the field of sport. Although no-one will deny that the very fine facilities we have here should be shared with other colleges so that as many students as possible can have use of them, I feel that care must be taken to ensure that the original users, i.e. IC students, do not suffer merely for the sake of sharing: as might happen, for example, if one particular facility was to be over-used, which would obviously be to everyone's detriment.

### One Sided

Although the other colleges in the area have much to offer in a wide range of fields, they have little to offer to sportsmen at IC, many of whom feel that reciprocal arrangements are rather one-sided. In many cases it is the captains of individual clubs who are being asked to cater for USK students and the difficulties involved here are, perhaps, not widely realised. One of the biggest headaches any captain has to cope with is knowing whether or not a particular player is available for selection, and it is difficult enough to find whether a student at IC is available without having to look for people at other colleges. It must also be noted that most IC clubs enter teams in UL leagues, in which players from outside IC are not allowed to compete. No sensible captain will try to build up a team knowing that it will have to be changed for a league game.

### Other Universities

It is worth considering here, the way sport is run in large provincial universities, most of which run sport not on an absolutely centralized basis but generally on a departmental basis. This is in many cases simply because the numbers to be catered for are too large for any one club to deal with. If, therefore, too many USK students are invited to join IC clubs, the clubs will eventually become unmanageable and the respective sports will have to be run on collegiate basis, thus defeating the whole idea of USK. J.C.D.

Contributions to sports Felix are welcomed from all IC clubs. Please send them, by Thursday 7.00 p.m. at the latest, to the Sports Editor, John Darley, Falmouth Hall; although with advance notice small items can be accepted up to Friday lunchtime.

## I.C. W.S.C.

Imperial College Women's Sports Club

### Badminton

On Saturday, October 18th, the Badminton mixed team started off what is hoped to be a good season with an 8-1 win over Northern Polytechnic, away.

Team: G. Georgian, Susan Thompson, S. Donald, Rosanne Date, P. Poyser, Fiona Mackinnon (capt.).

Last Saturday, 24th, the ladies Badminton team started their season with a good and close match against Kings College, winning 5-4 at our home ground, Latimer Baths, at Wimbledon.

Team: L. Beynon, R. Date, S. Thompson, F. Mackinnon (capt.), P. Ryall, H. Hutchin.

### Hockey

The ladies Hockey team is going from strength to strength by beating Goldsmiths College, our opponents in last year's ULU Knockout Tournament Trial, 3-2 at Harlington on Wednesday, 29th October. The first half showed our team to be very disorganised with Goldsmiths leading 2-0 at half-time. However, after a strong pep talk from the captain, we finally won 3-2.

Team: J. Buzzard, S. Edwards, J. Mansfield, S. Inskip, M. Lewis, H. Hutchin, J. Allinson, S. Thompson, L. Beynon, (capt.), M. Paluch, M. Diggins.

The mixed Hockey is flourishing with ample support from both our ladies and the men. We started the season in fine style with a 2-1 win over Royal Free Hospital and narrowly lost the two other matches, 1-2 against the Land Registry (who were obviously more used to the bumps on their pitch than we were!) and 2-3 against Q.E.C.

ISWSC members: M. Diggins (capt.), H. Hutchin, B. Dilley, M. Lewis, J. Mansfield, L. Beynon.

It is unfortunate that the first netball match, against Chelsea on Wednesday 29, was cancelled by them.

ROSANNE DATE

## Football

IC first XI went to UC on Saturday for the first round of the UL cup. Despite being on top for most of the game, the team had great difficulty in finding goal. The whole team ran well, on a hard, slippery surface, but the score remained 0-0 despite the ball staying in the UC half for nearly the whole of extra time.

On Wednesday the 1st continued their league success by beating LSE 2-0. The fact that both goals came from the last 5 minutes showed the difficulty the side was having in scoring goals. This was a good win for the team, who now face UC in the cup replay on Saturday, November 1st.

The second XI lost 5-1 against LSE II. It is difficult to see why such a good set of players are not having much success at the present. After a good start to the season beating St. Mary's and Pembroke the team has lost 8-1 to Bristol II as well as LSE! A good win against UC is needed on Saturday to get back to form.

After winning 11-4 against UC the IV continue their winning run by beating LSE 4-2.

Note. With over 10% of players crossing off last Saturday, selection was difficult. The leagues and cups are won on consistency; this is your club, support it by playing regularly.

TOM McCARDLE

## Volleyball Strong

The season has got off to a convincing start, with the first match played against Gunners, a team from the S.E. London Technical College, on Friday 17th, being won by a mixed 1st and 2nd team. On the following Sunday a double match was played at home against Borough Road College 1st and 2nd teams. This resulted in a 3 sets to 2 win against their 1st team and 3:0 win against their seconds.

The first real test for a strong 1st team took place on Sunday 26th, in a Southern Area Tournament at Bracknell. We were unfortunate to be under seeded and had to play the first match in our pool against Preston, a National League team playing by invitation. We took an early lead but they discovered some weakness and soon we lost co-ordination and were soundly beaten. After a quick tactical talk we continued into the consolation event and won it easily. With the understanding built up in the tournament it is hoped to show we have the strongest team in the history of Volleyball at I.C., and also to attempt to test our abilities against many other British Universities.

CHARLES ORTON



Could YOU take an action sports photo? Would you like to spend an afternoon at Harlington, taking photos for Sports Felix, using free film, all expenses paid?

Apply now, to Simon Hoyle, 328 Linstead, Tony Kirkham, 316 Linstead, or any member of Felix staff.

### U.S.A.

Are you interested in North America?

Join University Students Abroad International House  
40 Shaftesbury Avenue, London W.1.  
Telephone: 01-437 5374

### SMALL AD

JAPANESE translator needed for short paper in Mech Eng/Metall field (Japanese into English).— Please contact I. Cumming, CCA, RSM Building, Prince Consort Road.

## Rugby Club Triumph

Royal Free Hospital 3 pts. ; IC 31 pts.

After losing to Royal Free two years running, IC gained ample revenge on Wednesday as the scoreline suggests. The whole team played very well and seem to be moulding themselves into a more than useful side. The rucking of the forwards and the running of the backs are particularly good.

IC scored directly from the kick-off, and throughout the match gave no quarter although some loose tackling by the back row let the Royal Free backs in for their solitary try. Our 9 tries were scored by: Roy Anderson (2), Mike Adams (2), John Gardiner, John Ballard, John Kelly, Keith Devaney, and Bob Atkins. Two conversions were kicked by Dave Devlin.

Other team members: Alan Roberts, Terry Stephenson, Andy Clark, Pete Earl, George Widelski, Steve Owens and Dave Barford.

On Saturday IC had a block fixture against Rosslyn Park to which all sides, with the exception of the irrepressible A3 XV, went down rather heavily. Although losing to bigger and better sides, the scores could have been far more decent if selected players had turned up to play, and had not crossed off after 6 p.m. on Friday evening! If the club is to prosper this season, some concrete club spirit must be built up — even though some sacrifices from players may be necessary.

MIKE ADAMS

## RCS Sixes

The RCS Soccer Sixes competition was held on Sunday, 26th October. Fourteen teams turned out under a variety of names, e.g. the Cloggers, Fairies, and Lepers, but even so support was less than had been hoped for.

After the first rounds had been played, the semi-finals set the Maths 3 first team against some PG's from Physics while the Chemistry 2 first team came up against the Hyde Park Casuals, a rather casual bunch from Physics.

The results of these games produced the not unexpected final between Maths 3 and Chem 2.

Maths took the lead fairly early in the game, but it was not long until the equaliser from Chem 2, after a defensive error. As half time drew rapidly near, a beautiful cross shot from Maths' wing whizzed past the Chemistry goalkeeper. In the second half, there were several incidents in both penalty areas, and about half way through the half Chemistry scored from a disputed penalty. Shortly before the end they took the lead, which they were able to maintain despite

## Judo

On Saturday, 25th October, a team of five went down to Southampton for a contest against Reading and Southampton. Despite the small size of the team, they managed to beat Reading by 25 pts. to 15, and only just lost to Southampton by 27 pts. to 20.

There are several important fixtures coming up soon, and the club would like more members, both beginners and graded, especially those who put their names down on Freshers' Day. Practices are held every Thursday night for graded members, and Tuesday night for beginners, in the Gym at 6.15 p.m.

valiant attempts by their opponents, and so ran off the field the winners by 3 goals to 2.

In the losers' finals, the Botany All Stars, few of whom actually came from that department, or even from RCS, beat a Chemistry 1 team by 2-1.

The evening rather degenerated after that, when RCS punch was served to the combatants.

## Winks Pots on

IC Winks gained its second victory last Wednesday, despite attempts by the opposition to outwit us with such daring tactics as playing on their floor with the dreaded Japanese Wink (care of Woolworths). The result was an overwhelming success by 90½ points to 21½. This result was due mainly to good potting, especially by B.

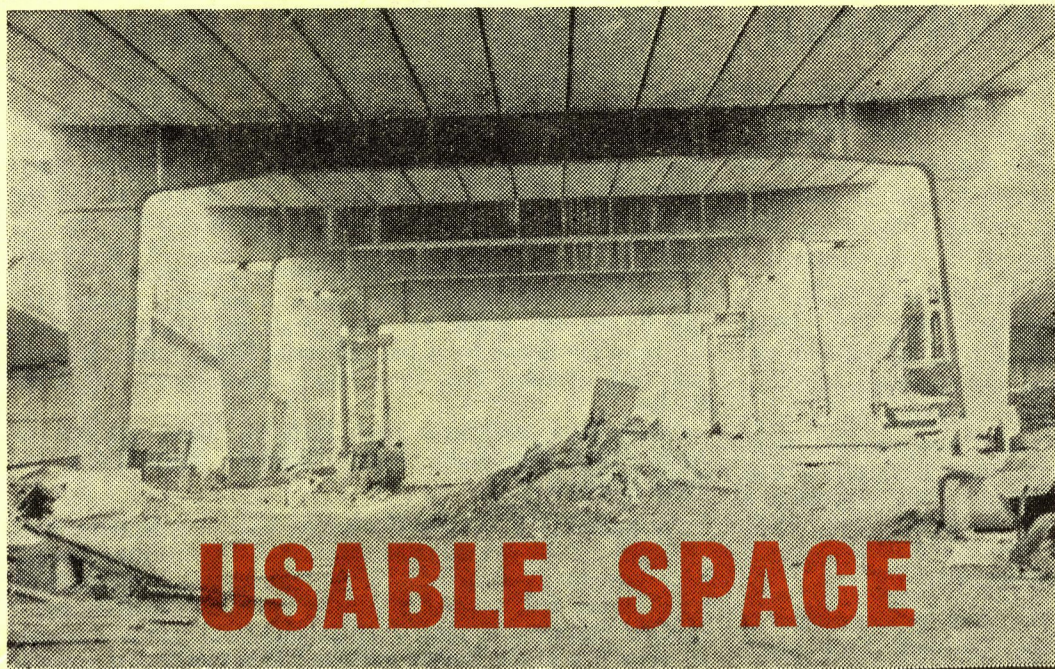
Pywell, who excelled himself on their floor.

Our first success was on the previous Monday, when Lower Mooney in the Union resounded to the cries of the frustrated ULU Freshwoman's team as the three pairs from IC got to work on the mats. Having removed the opposition, IC went on to win 44½ to 18½. G.P.

## ANDREW'S photographic

Special concessions for students for photographic materials and equipment

13 THE ARCADE  
S. KEN STATION



The photo above shows the end of the Western Avenue extension. For its complete length of 2 miles this raised motorway is creating beneath itself a strip of land which is often several times the width of the road above. Yet neither Kensington nor Westminster councils had any development plans for this space, which is to be rented to them by the G.L.C.

Under pressure Kensington is agreeing to incorporate several ideas such as a small park, adventure playground, and meals on wheel depot, which were included in a plan drawn up by a local pressure group. Nothing

similar is being organised in Westminster; yet there is even more space under their half of the motorway. (The photo shows the thinnest portion in Westminster).

Imperial College students, unlike the tenants of the new council estate which runs along the motorway have no cause to fear the borough council. And, as members of the best known centre for science and technology in the country, their ideas on the full exploitation of raised motorways in an urban setting would carry considerable weight.

As a preliminary show of concern it is intended to propose a motion at the next

Union meeting (November 13th) deploring the unimaginative attitude of Westminster Council. This will then need to be followed up by a development plan for the mile long site and the 'selling' of this to councillors, social workers, newspapers, M.P.'s etc.

With completion of the motorway expected during next year any further delay in forming a pressure group will inevitably result in a council decision to cover the whole area in grass or concrete. So come to the Union Meeting on November 13th and vote for this motion.

## Sitar-in

The Indian Society has arranged an evening of Indian classical music on the 10th November. Indian music is a melody and, to be quiet honest, one cannot really describe or explain it. It is something that must be heard and experienced.

Prolonged effort has resulted in the many melodic structures of Ragas. A Raga is a distinct personification of various moods. Meditative techniques enable the musician to enter into the mood of the particular Raga, and play it successfully.

### PERSIAN

The Sitar, the most popular Indian string instrument, was invented by a Persian poet-musician, Amir Kusrau, and was introduced to India in 1200 A.D.

The number of strings and their tuning can differ and is a characteristic of the school of music to which the artist belongs.

A typical programme of Indian music, vocal or instrumental, can last anything up to 8 hours. I have listened to Ravi Shankar in Bombay for 7½ hours, playing with tremendous concentration and devotion in and open-air theatre, when a sweet breeze from the sea continuously mingled with the delicacy of his music to create a spiritual atmosphere. It is an experience that will give me joy, and simply joy, all my life.

ANIL DATE.

## C. & G. Spree

The second Guilds union meeting of the term held on Tuesday of last week was rather poorly attended, there being a noticeable lack of second and third year Guildsmen. The result of this was the passing of a motion declaring that if the publicity officer did not succeed in producing an attendance of two hundred or more for the next meeting he would be removed to the Round Pond and washed clean of his sins.

The meeting open, the secretary gabbled through the minutes of the previous meeting after removing the pencil from between his teeth, though judging from what one could hear this was unnecessary.

Concerning Morphy Day the president announced that an official invitation would be sent to R.C.S.U. challenging them to a tug of war on the towpath at Putney. Should this invitation not be accepted a coffin containing the remains of R.C.S.U. will be ceremoniously consigned to the river bottom.

The meeting was informed of the results of the previous Saturday's collection in the form of a tiddleywinks race down Oxford Street for this year's charity. The seventy or so Guildsmen who turned up raised some £81.

Phil Smythe then proposed a motion that a protective machine should be installed in Mech. Eng. Dennis Taylor spoke against this appealing to all men, women and children of Guilds to solve the problem by other means. Despite the suggestion that the machine should be installed in the coffee room and disguised as a coffee machine the motion was defeated by 36 votes to 31, a large number of people abstaining.

There being no other business the meeting was closed with the usual rendering of Boomalaka and with the unusual sight of D. Taylor actually succeeding in lifting Bolt.

## Linstead selection

At a meeting of the Linstead Hall Committee last week it was decided to increase the number of students on the Hall selection committee to six. Three of these will be Linstead Hall

residents and the remaining three will be from other Halls. It was also recommended that the number of students allowed in for a second year be reduced to 10%.

# Sparkes Flies at B.O.S.

**"They are a load of idle layabouts!" — "Hobby subjects!"**

So said Prof. Sparkes (Dean C. & G.) on students and Prof. Barrer (Head of Chemistry) on non-specialist subjects at a half hour discussion on diversification preceding the Board of Studies meeting on Wednesday 29 Oct. The discussion was arranged at the request of the President and was attended by President Piers Corbyn, Academic Affairs Officer — Brian Hains, one of the writers of the report on Non-Technical Studies — Dave Wield, and two members who taught non-main course subjects: — Sinclair Goodlad (Elec. Eng.) and J. B. T. Cole (Chem. Eng.). The President had requested beforehand that they be allowed to stay for the board meeting proper "in the spirit of what was suggested in the Rector's letter of 29th July" but this request was not granted.

### STUDIES

The discussion was concerned with last term's student "Report on Non-Technical Studies" and a short memo by Piers Corbyn and Brian Hains on diversification. The President introduced the subject saying that there is growing pressure and feeling (e.g. many govt. and other reports) from outside bodies in favour of extensive diversification of both a "science-generalist" type and a type to give "an overall view of knowledge and promote a more critical socially aware and socially respon-

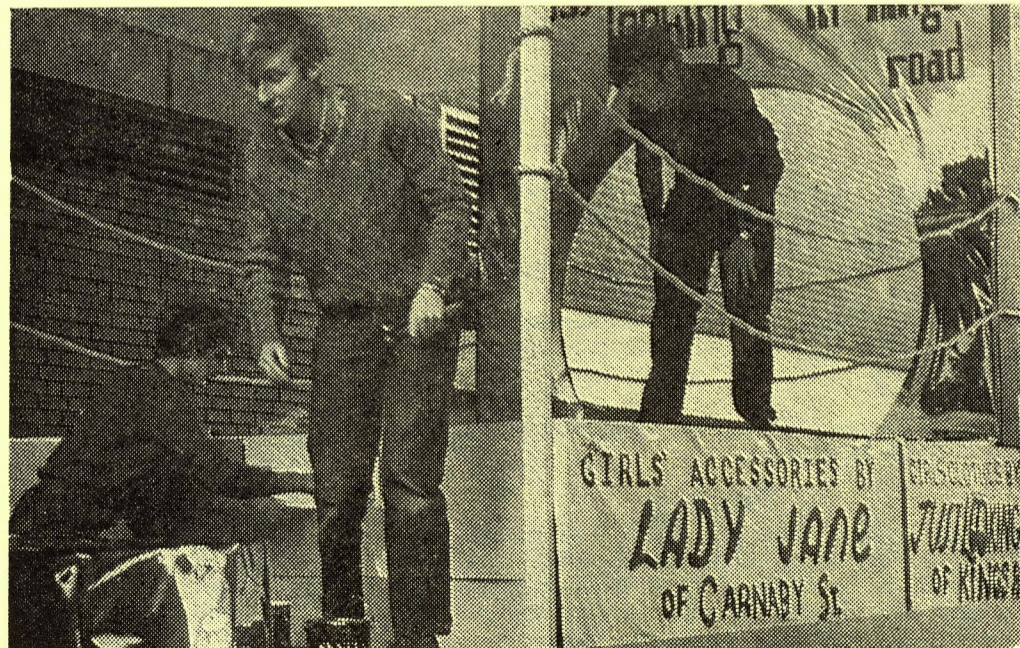
sible attitude". Comparable institutions (e.g. MIT) have long since diversified; the board was asked "Why is IC so far behind?" In addition to this there is a very strong student opinion (according to last term's pilot questionnaire) in favour of diversification. There are large discrepancies between departments in the present extent of diversification, which puzzles students; the board was asked for the reasons for discrepancies and to say what it intended to do about it. The memo to the board was then outlined — it suggests strengthening the course unit structure and setting up a college financed "school" to force diversification — and again they were asked by the President what they intended to do about it. The students felt that the response of the professors was disappointingly illiberal and unconstructive. Prof. Barrer (Chemistry) believed that diversification would lead to a lowering in the scholarship and character of the course, and described diversification as "hobby subjects" — which were for leisure time only. Prof. Flemming (Min. Tech.) was very critical of the pilot questionnaire itself. Prof. Sparkes did not want "hurried action" and thought that General Studies were quite adequate, the fact that many students did not attend proved to him that they were a "lot of idle layabouts". It was suggested by someone who went to the meeting that as President of the Rugger Club, Prof. Sparkes would like to stop all Tues-

day and Thursday practises to enable rugger-players to attend G.S.

### GO ELSEWHERE !

Prof. Alexander (Mech. Eng.) thought that the students who wanted diversification should go elsewhere ! Most other comments were unfavourable to diversification and the delegation of three students and two staff felt that too little time was given for reply or discussion. Many Profs. said they wanted more discussions later. However after the delegation of 3 students and 2 staff left the discussion is rumoured to have improved, and it was decided that the Pro-Rector should "co-ordinate the present arrangements, and by means of regular meetings with the staff involved with these activities explore what can be done to meet the increasing demand for an extension of the non-technical studies provision within the existing resources available (as was reported to the E.G.M.). Administrative support for his responsibilities would be provided by the General Studies office. It was also noted that proposals on the matter were being considered for the next quinquennium.

Some professors at the meeting were sceptical about student support for the proposals but forward, so it was fortunate that the E.G.M. the next day it was possible to overwhelmingly ratify the memo to the BOST and make strong comments on the subject which were relayed to the Pro-Rector the very next day.



## Lord Mayor's Show

This year Guilds have persuaded (?) the organisers of the Lord Mayor's Show to let them have a float in the pageant section of the procession. The float will be preceded by 'Bo' and the theme is "Swinging London", sponsored by the British Travel Association.

The float itself features a colourful and exciting 'boutique cum disco' with equally colourful and exciting

Guildswomen.

Over the last weekend the Evening Standard and News took photographs of the float in an incomplete state (after an all-night attempt to get it ready. This was cleverly disguised by numerous strategically placed persons and Dermott Corr doubling as Eros.

The floats will assemble in the Tower Bridge area on Friday afternoon, and are

then taken by police escort to London Wall, where they will join the main procession at approx. 11.30 a.m.

The Organisers stress that no street collections be taken, and Guilds will be out in force with collecting cans.

Any Guildsman / woman interested in selling programmes in the St. Pauls area during the show should call in at Guilds Union Office as soon as possible before Nov. 8th.