



# FELIX

Founded 1949

The Newspaper of Imperial College Union

## NUS slams Tory cuts

The National Union of Students has reacted strongly against grant cuts announced by the Government last week.

Action began last Wednesday with a national 24-hour occupation of Universities, Polytechnics and Colleges. Imperial College Union is not affiliated to NUS and did not take part in this protest. An NUS spokeswoman said that this action was well supported with 150 establishments from all over the country involved in sit-ins and lecture boycotts.

A national rally, 'Going for Broke', has been organised for 3.30pm next Wednesday in the Queen Elizabeth Hall and Jubilee Gardens. Speakers will include NUS President, Phil Woolas and a demonstration activity as yet unknown will be organised.

The NUS believe that the Government intend to 'privatise' the higher education system as in America, and replace the current system of grants with students loans.

According to a special edition of London Student the Under Secretary of State for Education, Mr Peter Brooke, has discussed radical proposals put forward by the Adam Smith Institute. This body 'innovates proposals and creative thought into public policy debate 'to promote free choice and a free economy. According to the document, Mr Brooke said that he would prefer to see the banks (rather than Governments) take on the administration of a loans scheme. Although the report claims that the document had come from the Department of Education and Science, a departmental spokesman denied knowledge of its existence and he reiterated the government's view that loans would not be introduced.

## Squatters stay

The University of London has been given an possession order for 66-72 Gower Street, the building occupied by students from UCL and LSE. The order does not become effective until November 30, providing ULU ensure that surveyors are allowed free access to the building.

NUS lawyers who acted for the students opposed the order on the grounds that the University had no immediate use for the building and said that a negotiated solution should be found. The University said they needed access to the building so that surveyors could start planing its conversion into a teaching area for UCL.

Students occupied the building, which was formerly a GCE examination office, in protest at the lack of accommodation for London students. The University, UCL and LSE offered a package deal to persuade the students to leave. This included the offer of accommodation in UCL and LSE. The squatters saw this as queue-jumping, and decided to remain in 66-72 Gower Street.

## Changes at RCA

Sweeping changes at the Royal College of Art were yesterday passed by the Senate, the college's ruling body, to take effect from October 1985. The restructuring will affect all but three of the college's schools and faculties. Five schools are to be closed and there will be a reduced intake into a further five. Existing obligations and teaching commitment to the present students will be honoured. The normal course length currently three years, will be reduced to only two.

The changes are to make way for eighty new places in eight new

departments as well as modest increases in two of the existing schools. The number of students will remain at the present level of six hundred before a major expansion over the next few years, say college officials.

The RCA students union views the changes as a bombshell. They say that there was no consultation and the first they heard of the proposals was in the form of a press release.

At an extraordinary general meeting last week the union noted that the recommendations will affect all students and members of the RCA. They believe that the Academic Policy Committee, where the proposals were decided, is only meant to put forward policy options to the RCA Senate where they are debated in full. They also believe

continued on back page

## Panto street collection



Sixty people managed to raise over £1363 last Saturday, in the 24 hour rag collection. £1243 came from RCS and £120 from Guilds. Top collectors were Gareth Fish with £82.32 and Sue Foister with £77.21½p.

The Whacky Pantomine Horse Team, pictured, collected £273 and the Jez crew collected over £200.

For Guilds Silly Sports about twenty people turned up outside Harrods and in a couple of hours raised £138.62 making the grand total for the Street collection £1502.



# LETTERS



## Carnivalpoos

Dear Felixpoos,

Darling, just a quick note to let you know about the Guilds Carnival. Rumour has it that it's taking place tonight, not that I want to get you all excited for nothing, knowing your little ways. I did hear, dearest honeypuff, that a little bandybandy called Mud are going to be playing, and that dear little group Rent Party that we both just loved so much at the Freshers' Ball, and even more, gosh I'm all out of breath, you shouldn't tickle so, yes, now do you remember those delightful girls called the Gymslips singing songs about drinking, and those awful boys the Milkshakes?

Of course this is all pure supposition, I mean it all sounds too good to me. I mean we both know, don't we darling, that Mud are all in hospital having major surgery to try and remove their sunglasses, which haven't been moved in four hundred years. And the Milkshakes are probably too tired having just released four albums in one week.

Oh so do come, dearest Felixpoos, it sounds ever so much fun, what with two discos and their cute little DJs, Andy Pandi and Freddy Weddy, and such a lovely little barbeque, and all those cocktails made by those gorgeous hunky Links boys, and dear sweet little Brianipoos with his coloured lights flashing all over the place, and all those wonderful people wandering about having such a good time, oh it will be such fun.

Oh and by the way, the doors open at 8pm, the bar stays open until 2am and at the end of the night two films, 'Altered States' and 'Love and Death' will be shown for those of you who manage to stay up for that long, and the whole event only costs you £3.50, which sounds like a good deal indeed, eh Dad? Yes son.

Love from  
Charlywarly, Daviepoos, and all their little playmates.

## Wellsoc Bores

Dear Sir,

We, the remaining members of the Wellsoc committee would like to reply to an item published in last week's FELIX, regarding the resignations of the society's vice-chairman, W Hooper, social secretary, F Alli, and publicity officer, Dave Clements.

First it should be pointed out that Miss Alli and Mr Clements had already made it known to the rest of the committee for some time that they would be resigning their positions towards the end of this term due to 'pressures

of work' and 'other commitments'. The vice chairman, W Hooper, however gave no notice of his resignation, either to the chairman N Maxwell, or to the rest of the committee, who were not informed of this turn of events prior to reading the article in FELIX. The letter on which this article was based, I might add, was dated November 16 1984, and not delivered to the chairman until after FELIX had been issued. FELIX must have received this letter some time before. (Sigh. Another scoop, Ed.)

For the former vice-chairman to embark on such a course of action, he obviously considers himself to be exempt from his own demand that any proposed activity by a committee member should be discussed in detail and approved by the committee; even though the ideal opportunity arose at the last meeting for him to declare his intentions in the regretted absence of the chairman.

With reference to the contents of the letter, the three protagonists claimed that they were the victims of an 'unconstitutional vendetta' directed by the rest of the committee. Perhaps if Messrs Hooper and Clements had not adopted such self-righteous attitudes in addressing the rest of the committee they would not have given us cause for complaint.

The chairman is always willing to enter into 'sensible discussion' on any aspect concerning the society; discussion which the resigning vice chairman persistently tried to curb, in order to reduce the duration of committee meetings. We wonder which of these two attitudes our members consider to be more beneficial to the functioning of the society.

We also find it hard to believe the further claim that 'the society is being mismanaged by the chairman', when only one week previously the publicity officer congratulated the committee on its efforts, which have made Wellsoc the second largest society in College, with a membership already exceeding that amassed in total last year. Success of this magnitude seems incompatible with this claim.

We would like to ensure (*sic*) our members that the remaining committee is perfectly strong and sound, and that the running of Wellsoc will in no way be impaired by the loss of the three people in question. We already have a potential replacement publicity officer, and interest has been shown in the other posts; although formal elections will be held. MONDAY NIGHT IS STILL WELLSOC NIGHT!

The action taken by the former committee members is viewed as being extremely irresponsible, and harmful to the society that they supposedly had in their best interests (*sic*). At the least (*sic*) it epitomizes the thoroughly negative attitude shown by them (the former social secretary excluded) to the work of the rest of the committee, who have every confidence in the chairman.

Yours faithfully,  
Michael P Newman

C Warral (Ordinary Member)

Peter J Chase (Membership Sec)

M Preen (Treasurer)

H Parry (Audio Visual)

J Curtis

# FELIX

'In Sir Keith Joseph we once again have a Secretary of State for Education who as a man thinks deeply about the purposes of education, and as a politician is determined to improve its quality'.

Thus spoke the Rector at Commemoration Day last month. In the light of the grants cuts recently announced by Sir Keith, these, in hindsight, seem strange words from the Rector.

In theory, at least, the essence of the proposed change is this: richer parents will be expected to pay more for their children's education than poorer parents.

The money saved by these cuts will be used to increase the university equipment grant for research, and in the science vote itself.

At first sight this seems an equitable way of achieving the change, and it seems out of character for the NUS to be the champion of hugely wealthy parents. The Government must be rubbing its hands in glee.

But there is a serious problem with placing an increased burden on parents; some of them, perhaps even most of them, won't pay-up their full contribution.

This makes the means-tested grant a nonsense. The hundreds of bureaucratic hours spent 'testing our parents means' are wasted if our parents don't have any intention of paying-up.

This is not to point to parents as the villains of the piece. The means-test is notoriously inequitable and many parents simply can't afford their full contribution.

The means-tested grant, whether before or after Sir Keith's changes, is a monstrous dinosaur, indefensible despite the attempts of the NUS.

The Government realise this, and they will abolish the means-tested grant before long. They see the student grant as the least defensible part of their education spending. And if the NUS persist in defending the present system the cuts will continue unabated. Let them rather come up with a credible alternative.

**Acknowledgements:** Special thanks this week to the photographers Nigel and Pete, Hugh, Hugh, Martin, Grenville, Richard, Andy, Diana, Ajah, Patrick, Finian, Rosemary, Tony, all the collators and anyone else who has helped.

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## Mooney sausage trumpet shocker

A new electronic sausage trumpet has been installed in the Sherfield kitchens after an outbreak of woodworm in unfrozen sausages earlier this term.

For two months vegetarian and normal Mooney sausages were mistakenly stored and served in place of each other, and woodworm infested the normal sausages which were no longer frozen. Rentokil eradicated the immediate problem but Mr Mooney has purchased a sausage trumpet to stop such a mix up happening again.

The electronic trumpet is the latest type and was bought at a substantial discount as the manufacturers wished to use it as a show piece model.

'A sausage trumpet has been my aim for ages,' a delighted Mr Mooney told FELIX.

The new model is more versatile than previous mechanised ones, and will take sausages, frankfurters, salami, chipolatas, black pudding and liverwurst. Mr Mooney has had it programmed to confuse pork and beef.

Old trumpets were generally very noisy with, valves, bells and lots of tubing, but the new model is quite mute.

'From now on, there is no need for any student to eat an untrumpeted sausage. If they have any cause to think their sausage has not been properly trumpeted, they should bring it back at the time,' said Mr Mooney. He added that if the electronic machine was a success, then a Gabriel silver trumpet would be installed for formal dinners and for use in the staff

dining room where there is thought to be a demand for a high-class sausage trumpet.

Yesterday claims by the ALF (Animal Looney Front) to have tampered with pastry in the College Kitchens, were hotly denied by Mr Mooney, 'We've been using Plaster of Paris for years, so there's nothing new about that. If there are any complaints about the food, customers should bring it up to the staff at the counter'.

## Toy stamps

Most of you will know that the College has a Day Nursery in Prince's Gardens for the care of children of students, post-grads and staff. The main running costs, staff salaries etc are met from the fees paid by the parents but, as in all ventures of this kind, there is a continuing need for extra, voluntary funds to buy toys, puzzles, books etc for the children to use.

For the past few years the Nursery has been able to raise some money for this purpose by collecting and selling Stamps given by College members from their incoming mail. Many of us get Christmas cards from overseas. If you could save the stamps from their or from any other source and send them to Sue Thornett (Day Nursery, Prince's Gardens) they would be much appreciated.

The staff and children of the Day Nursery would like to thank all those who sent them stamps during the last academic year.

## Not lost

The IC Security Office has issued a list of lost-property that it has received since the start of term.

The list, mainly clothing, includes a grey suit, anoraks, jackets, blazers, raincoats, shorts, mackintoshes, rubber gloves, goggles, rugby-boots, jumpers, towels, shawls, scarves and umbrellas.

'Property not claimed by the end of term, will have to be disposed of', said John Burroughs, Security Officer.

## Three return from Morocco lizard study

Three Life Science students from Imperial College have recently returned from a two month expedition to the High Atlas mountains in Morocco. The students, Johan Kuylenstierna 21, expedition leader, Christopher Weedon 21, and Anthony Hall 21, all took part in the scientific work. The project was to study the behaviour of a previously unstudied Gecko (a small lizard). The group also compiled a list of all bird life observed in the vicinity of the village Imlil. During their four week stay in Imlil the three received an insight into the life style of the of the Berber people who live in the mountains. The Berbers do not recognise the government of Rabat, the capital of Morocco, and they do not pay taxes, and as a result of this they

have no electricity, no running water and no paved roads. When their studies were complete the group was free to travel in the mountains and to visit the other villages which scrape a living on the fertile valley floor. Just before the end of the trip the expedition was able to take time off and climb the peak of Toubkal, which at over four thousand and one hundred metres is the highest point in North Africa.

The lizard studies were carried out on the behalf of Dr Arnold of the British Museum and the bird studies were compiled for the University of Marrakesh, Morocco. The expedition is extremely grateful to the Imperial College Exploration Board for the generous financial assistance received.



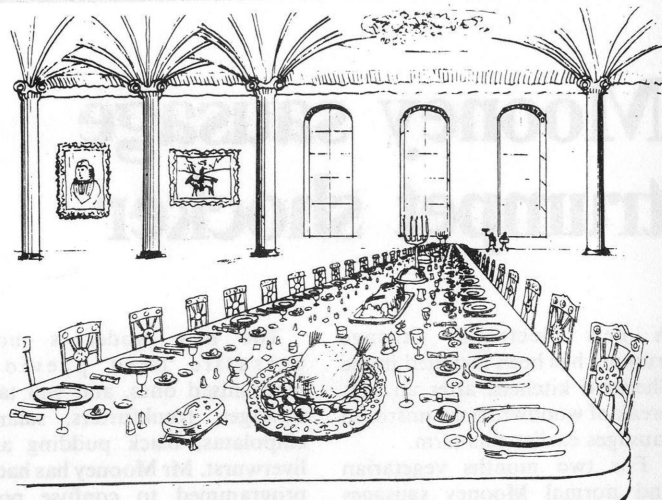


# Careering Along

Ever thought that you would like to work abroad for a few weeks? Around 26 Imperial College graduates go abroad to work each summer vacation through the IAESTE scheme. That stands for the International Association for the Exchange of Students for Technical Experience. Last summer students from IC went to Austria, Belgium, Czechoslovakia, Denmark, Finland, Germany, Greece Hungary, Japan, Poland South Africa, Spain, Sweden, Switzerland, Turkey and the USA. They worked with a variety of employers including research establishments and mines, industrial concerns and universities.

If you want to know more about the scheme, why not go along to the Careers Advisory Service in Room 309 Sherfield Building to find out?

Dr Neil Harris  
Careers Adviser



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**Raymond**

the world's  
most boring  
student



Talking of doughnuts, I've also got a pretty amazing gravel collection — nearly six sackfuls y'know.



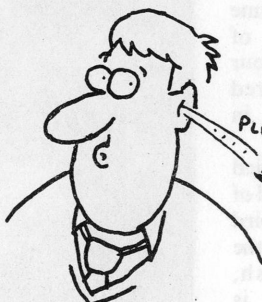
Impressed? Well, y'would be if that lot fell on your stuffed newt montage.



Of course, I speak as a man of experience.



Yup! I could talk gravel till it came out of me ears.



Plop!

PIECE OF GRAVEL



Fab! My Yangtse opaloid — thought I'd never refind it.

**Finian**



# IC Symphony Orchestra

On Friday 30 November, at 8.00pm in the Great Hall, Imperial College Symphony Orchestra will perform what is undoubtedly its most ambitious concert to date. The programme will consist of Stravinsky's *Rite of Spring*, Rachmaninov's *Piano Concerto No 2 in C minor* and *Karelia Suite* by Sibelius.

A performance of *The Rite of Spring* has always been an ambition of the conductor of the orchestra, as well as a great number of the players, including some who have played with the orchestra for many years.

It is very difficult to pinpoint the year when the orchestra was formed. The person who has played with the orchestra longest, Don Munro, a lecturer in the Computing Department, remembers first hearing IC Orchestra in 1966 ('Oh it was so bad!'). In those days the orchestra was more like a wind band and consisted of a few very dedicated players. ('The soul was there, but the notes just weren't in the right place.') There was no Great Hall to perform and rehearse in, and some concerts were even held in Southside.

## Conductors

Over the years IC Orchestra has had many conductors, including two professionals in the 1970s. The first of these, James Stobart, was an excellent conductor but extremely strict. Under him the orchestra reached a peak. Although it declined somewhat when he left, it was revived when the late Gavin Park, a member of the Physics Department, took over.

It was just over five years ago that the orchestra really took off, when the present professional conductor Richard Dickins joined. At that time Richard was fresh from the Royal College of Music

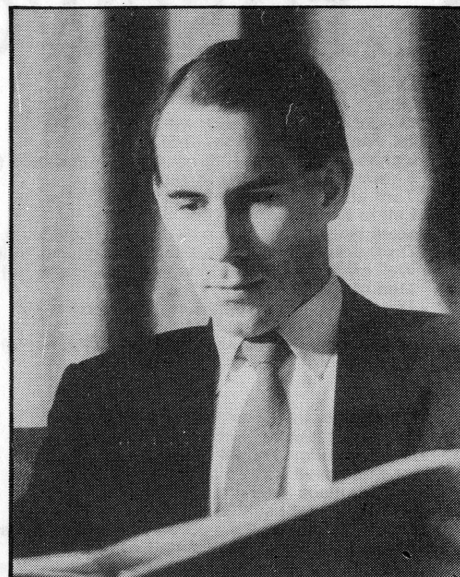
and his enthusiasm and ambition (neither of which has ever waned) gave the orchestra a new lease of life. It rapidly expanded to its present size with over 80 members, and the standard of players has also vastly improved. There are now so many good woodwind players at IC that auditions are necessary. The brass and horn sections are second to none and the standard of the string playing is improving steadily.

The orchestra performs three major concerts a year and rehearses for three hours every Wednesday in the Great Hall. It has now become an established event to go away to Silwood Park for a weekend in the Autumn term. This is intended to help the players to get to know each other and the playing is strictly for fun. During the day the orchestra sight-read their way through vast amounts of repertoire and play chamber music in small groups. Every other spare moment is spent in true IC fashion supporting local pubs and the Silwood bar. There are also numerous cheese and wine parties throughout the year when players have the opportunity to perform solo or chamber items.

## Committee

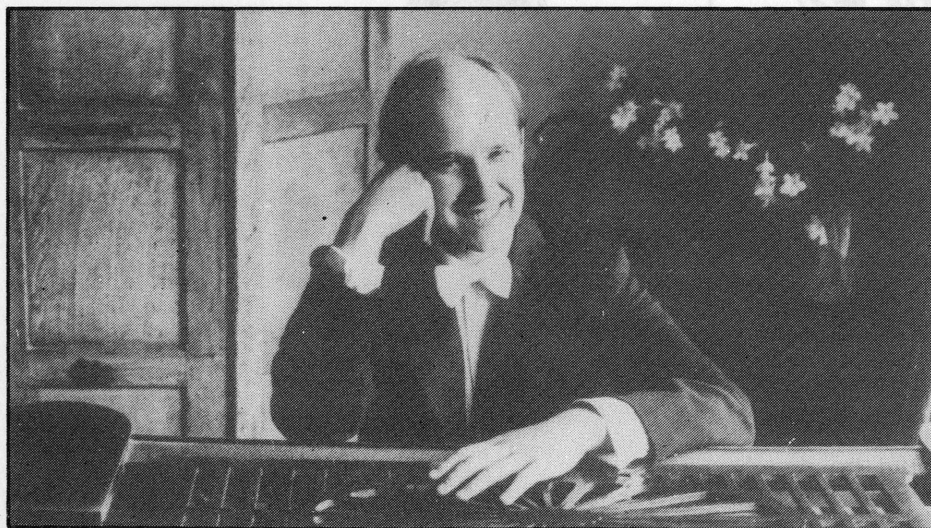
Like every other society in the College, the orchestra is run by a committee which is responsible for organising such diverse activities

## conductor



**RICHARD DICKINS** started his musical training as a chorister. He began playing the clarinet at the age of thirteen, making his solo debut eighteen months later. He entered the Royal College of Music in 1975 where he studied the clarinet with Colin Bradbury as well as studying for a London University music degree. He was awarded an exhibition at the end of his first year at the college and it was at this time that he began his conducting studies with Norman Del Mar. Leaving the college in 1979 having won a number of prizes for both conducting and clarinet playing he made his Royal Albert hall debut the next year conducting a performance of *The Pirates of Penzance* with a chorus of 2000.

## soloist



**WILLIAM HOWARD** was born in 1953. At sixteen he gained his ARCO and for some years studied with Joyce Rathbone in London. After four years at New College, Oxford, he studied with Vlado Perlemuter in Paris and with Peter Feuchtwanger in London. He has given solo recitals and concerto performances throughout Britain and has appeared frequently in the Wigmore Hall and on the South Bank in London. He has performed and broadcast in Italy and Switzerland and has twice visited Hong Kong to broadcast, perform and give master classes.

He is founder of the Schubert Ensemble of London and has played for many years with the violinist Paul Barritt with whom he won the Greater London Arts Association's Young Musicians Award (1980). Together they have toured extensively in England and Northern Ireland and made several recordings for the BBC.

as room bookings for concerts and rehearsals, professional soloists, publicity for the concert and making sure that the grand piano is tuned on the day. At the end of every year the committee meets the conductor to decide on the works to be played in the following year. In the past this has led to performances of Rimsky-Korsakov's *Sheherazade*, the *Fifth Symphonies* of Beethoven, Tchaikovsky, Glazunov and Shostakovich, Holst's *The Planets* and Gershwin's *Rhapsody in Blue*.

This year they have finally summoned-up the courage to play *The Rite of Spring*. This is the music from Stravinsky's ballet representing a pagan rite when a 'frenzied young virgin' is sacrificed to bring about the return of spring. It is a very difficult work to play but it is very exciting to listen to and leaves the audience exhilarated and the orchestra shattered.

A total contrast to this is Rachmaninov's *Piano Concerto No 2 in C minor* with soloist William Howard (see inset). This piece, with its famous lyrical and passionate themes is far more romantic, and if you think you've never heard it before you'll be amazed at how many of the themes you will recognize.

## The future

As for the future, it can only be expected that the orchestra will go from strength to strength. The standard of playing continues to improve and there is now a far more ambitious group of musicians than ever before. Come and hear *The Rite of Spring* next Friday, and you are promised a concert you won't forget.



# PUZZLES

## Crossword

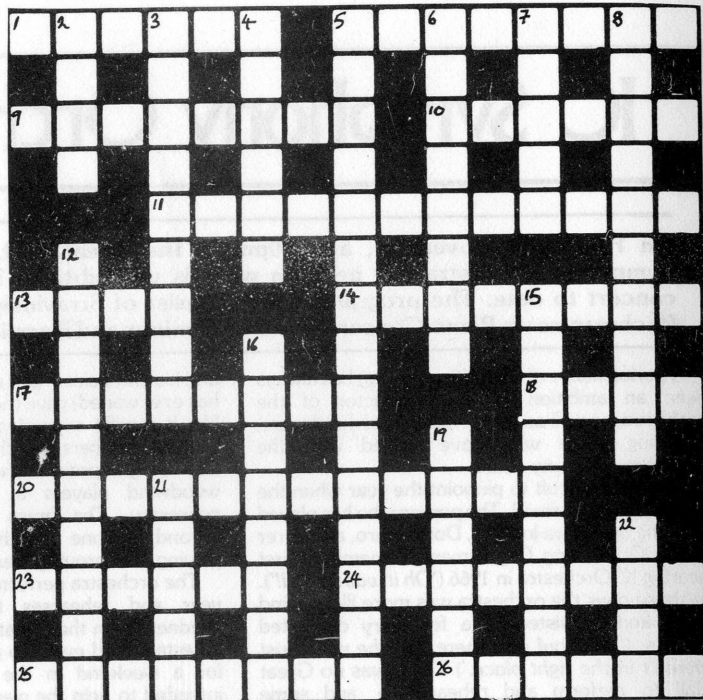
### STRAIGHTFORWARD

#### ACROSS

1. No right to blunder about with package. (6)
5. Star abandons Primrose. (3-5)
9. Hear about Madge losing her head — and hat? (8)
10. Enisled ship lost bows in sea. (6)
11. Turn union act into extension. (12)
13. Left to harbour drink. (4)
14. More sincere than some of the art I eradicated. (3)
17. On the next page traffic arrangement loses a hundred pounds. (8)
18. Well off initial route in Christchurch, Hants. (4)
20. Meddling about in Free Centre (12).
23. Diminish the Russian upper-class church. (6)
24. Get close to a very quiet fish. (8)
25. With a spire Shawhead is strangely deplete. (8)
26. Thatcher is a prelector, we hear. (6)

#### DOWN

2. Door-keeper lost heart to employer. (4)
3. Do a direct transfer with the consecrator. (9)
4. Go out with former tune-arranger. (6)
5. Uncomplicated way artist may fight or draw up. (15)
6. Sedative made from albumen first time. (8)
7. Bake in the right kiln. (5)
8. Work up into a false allegation with powerfulness. (10)
12. Suitable nunnery includes half-nieces. (10)
15. Triad of strange ether, sulphur and half an omelet! (9)
19. Gunman begins shooting pin up of queen. (6)
21. Ruffle the Spannish with due changes. (5)
22. Each different pain. (4)



## Recipe of the week



### Tagliatelle alla Carbonarra

- 1lb tagliatelle (or other pasta)
- 3 eggs
- 4-6oz bacon (vegetarians could use chopped walnuts)
- 4oz cheese, grated
- 2 tablespoons olive oil
- a pinch of pepper
- finely chopped clove of garlic

Dr Johnson once said 'It was a good dinner, to be sure; but not a dinner to invite a man to'. If anyone invited me out to dine on bacon and eggs I would be deeply offended; yet my friends ask me to cook this for them.

Set a large pan of water to boil. Meanwhile cut the bacon into small pieces and fry in the olive oil until crisp. After three minutes add the garlic. Set aside. Cook the tagliatelle according to the directions on the packet.

Beat the eggs in a large bowl and add the cheese. Just before the tagliatelle is ready re-heat the bacon. Drain the pasta and stir into the egg and cheese mixture. Stir in the bacon and olive oil, and the pepper. Serve at once. The heat of the pasta is enough to cook the egg and make a rich creamy sauce.

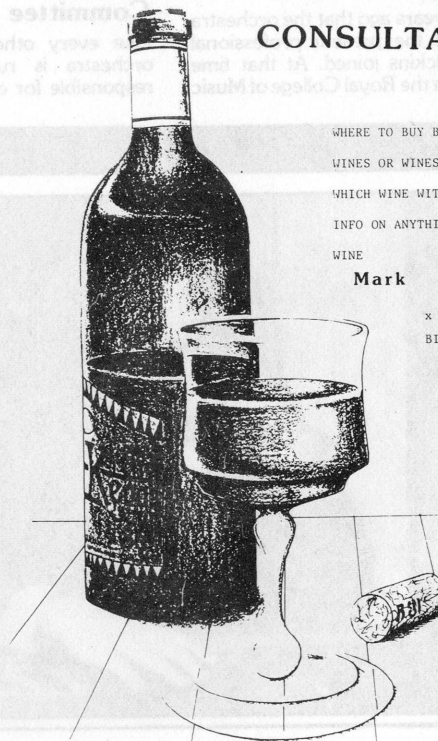
Serves 4

## FREE WINE CONSULTANCY

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WHICH WINE WITH WHICH FOOD.  
INFO ON ANYTHING TO DO WITH  
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Special thanks to Ian Collins for Artwork



## SINGLES

45 rpm

### Reo Speedwagon: *Can't Fight This Feeling*

This lot used to make records. Now it's Christmas however, they've obviously decided it's time for a return to a *Keep on Loving You* style. They do what they do very well. Unfortunately, after a few listenings, this one begins to get very boring. A bit 'sweet' for my taste.

### Nik Kershaw: *The Riddle*

Sounds like the Goombay Dance Band doesn't it? It's almost as awful as well. Nik, the 3ft giant from Birmingham maintains his wimpy, plastic image to keep his teeny fans happy. Grow up Kershaw! Even your fans will one day.

### The Adventures: *Send My Heart*

After talking to a guy from Chrysalis, at the recent IC gig, it would appear that the Adventures have a severe lack of recorded material to choose a disc from. It is more

for this reason than any other that they have been forced to release this as a follow up to the cult-successful *Another Silent Day*. Quite pleasant but that's all.

### Frankie Goes to Hollywood: *The Power Of Love*

Credit has to be given to the Frankies for such a daring change of direction from the phenomenally successful *Relax* and *Two Tribes*. Almost certainly this will be Britain's Christmas number one. The only question is for how long? It's very clever, but unfortunately I don't really like it. Sorry.

### Bronski Beat: *Ain't Necessarily So*

A bit surprising for Bronski Beat to release a cover as a single, particularly at this time of year. Actually, they are surprisingly good at it. Excellent vocal harmonies and brilliant keyboards. Listen out for the accidental *Aint nece-celery* in the last chorus!

ingly, it misses the present 'Troubles' because of its publication date — last revised 1969. The bias in the writing is clear, but at least the author is honest about it. Remember that reading your own opinions will not help you understand someone else's.

If you have the time to spend, and prefer to use primary sources, there exists a combined edition of *Guerilla War* texts by Mao Tse-Tung and Guevara in translation. Published by Faber in 1964, I think. Dated, yes, but still in active use. For instance, Guevara says that he found the best way to organise his fighters was in semi-autonomous groups of ten. This provided a useful force, whilst protecting the movement as a whole from infiltration. The IRA didn't suss that one out until the mid-seventies. For the other side of the story see Frank Kitson's *'Counter Insurgency Warfare'*. Frank was an officer in the British army and hence draws on colonial experience. Again the damn' thing

predates the current punch-up in Northern Ireland. The only book I have found which does cover this period from the Army's side (not counting those by professional journalists) is *'Contact'* by AF N Clarke. This gentleman was a Captain in the Paras and obviously enjoyed it in a strange bitter sort of way. It is not especially well written (none of these books are — must be part of their training), but is useful for two reasons. Firstly, it shows clearly and at first hand the way war brutalises its practitioners. It also brings home the fact that the Army has to deal with attacks from 'loyalist' Protestants.

I have come across several references to *'A Minimanual of Guerilla Warfare'* by a bloke called Marighella. Apparently it is required reading for everyone from the Red Army Faction to the Royal Air Force. But no bookshop or library seems to stock it. Perhaps it is banned because it is too detailed. Perhaps it is out of print because no-one else wants to read it, but I do. If you can point me in the right direction, please drop a note into the FELIX office. Just a note, though. Try out the *'Good Letter Bomb Guide'* chapter on someone else.

Rather more quaint, but equally vicious, is *'A Book of Five Rings'* by Miyamoto Musashi. Three hundred and fifty years old, and still chilling. Denis Waterman can muse on *'The Way of the Warrior'* but Musashi got there first.

'...the way of the warrior is the resolute acceptance of death'.

Well, I can't fault that. Does he drink Carling Black Label? YOU ask him. *'A Book of Five Rings'* is a text on strategy by a master swordsman, who by all accounts would have made Errol Flynn swat profusely.

Even older — first published 500 BC — is Sun Tzu's *'The Art of War'*. Not a lot of fun to read all at one go, but an insight into a totally different way of life. There is a rather nice story about Sun Tzu which goes like this:

The Emperor of China was talking to S Z about war, and asked for a demonstration of some of its principles. S Z ordered the harem to stand to attention. Nothing happened, except that the women giggled.

'If the orders are not clear, the General is at fault', said Sun Tzu inscrutably. The drummer stopped, and S Z repeated his order — audibly this time. Still, he only got

giggles from the harem.

'If the orders are clear, but are still not obeyed, then the officers are at fault', he growled. Then he had the head of the harem executed. The women screamed, and the Emperor was said something to the effect of

'Look here, old chap, that IS my wife'. But after that, Sun Tzu got instant obedience, and the Emperor so impressed that he made him commander-in-chief. Lovely people, are't they?

Of course, not all soldiers write books. Some of them have problems with writing straightforward instructions. It is of these heroes that Norman F Dixon writes in *'On the Psychology of Military Incompetence'*. This is not quite the dry tone that you might expect. The first part covers several examples of military disaster, and the second sets out to relate the failings of the officers concerned to problems of personality. The conclusions and the suggestions offered about causes and symptoms of incompetence apply to anyone who manages or commands; not just soldiers. Miss this one at your own risk.

## CINEMA

### Ghostbusters

Another typical, American, 'slapstick' comedy, with over three heroes saving the whole world, let alone New York, from the psychic evils of the underworld. A new idea?

The action is well interspersed with that popular 'clap-along' song from *Street Cred* Ray Parker Junior to which those zany American audiences actually clap. Not again! From behind this bizarre and captivating façade, however, the same old jokes are offered; but who cares?

The special effect are good producing incredibly cute looking ghosts with great taste in wine and European cheeses. I would say that the scary monster scenes are perhaps the funniest from a good beginning, though, the finale is just a little too... 'mega'...super...overdone. The evil goddess having an incredible likeness to Sheena Easton from head to toe in sparkling leotard. I expected her to burst into song at any instant.

'I ain't afraid of no ghost' but so long as the sky does not fall on our heads tomorrow life goes on. Not a painful two hours.

## BOOKS

### Violence

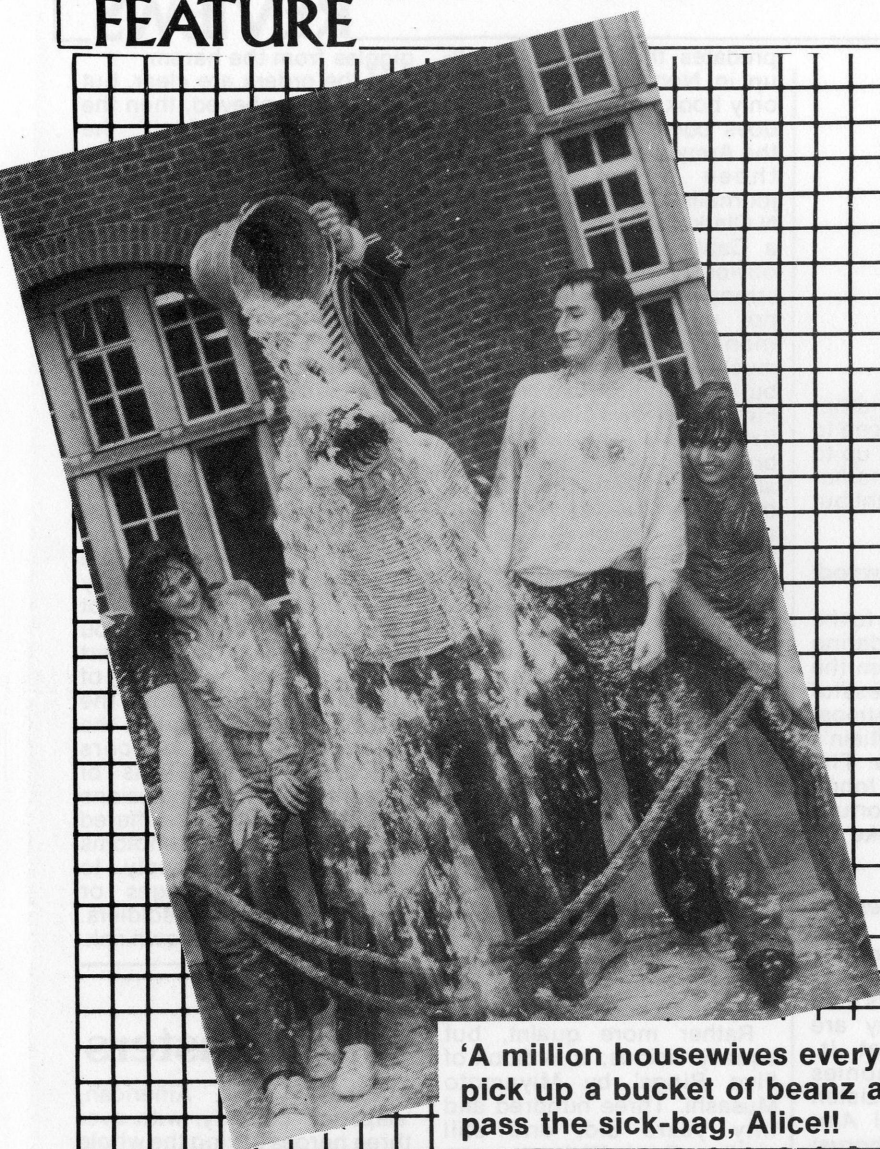
No poems this week. No travelling and no fashion. We are looking at dark, dark places. News at ten, nine, eight,...

Terrorism, Guerrilla war, Resistance, call it what you will. I counted twelve examples in the news last week without even trying. No use throwing up the hands in disbelief or dismay, because like every other kind of war it will not stop just because you know it should. Understand it.

*'The War of the Flea — Guerrilla Warfare Theory and Practice'* by Robert Taber is a good, concise survey. Mr Taber is one of a rare breed — a Yankee who fought for Castro. The book covers theory from Guevara and Mao Tse-Tung and practical examples from Indo-China, Ireland, Cyprus, Malaya and the Philippines. Disappoint-



# Rag Week 1984 . . . .



'A million housewives everyday pick up a bucket of beanz and say: pass the sick-bag, Alice!!

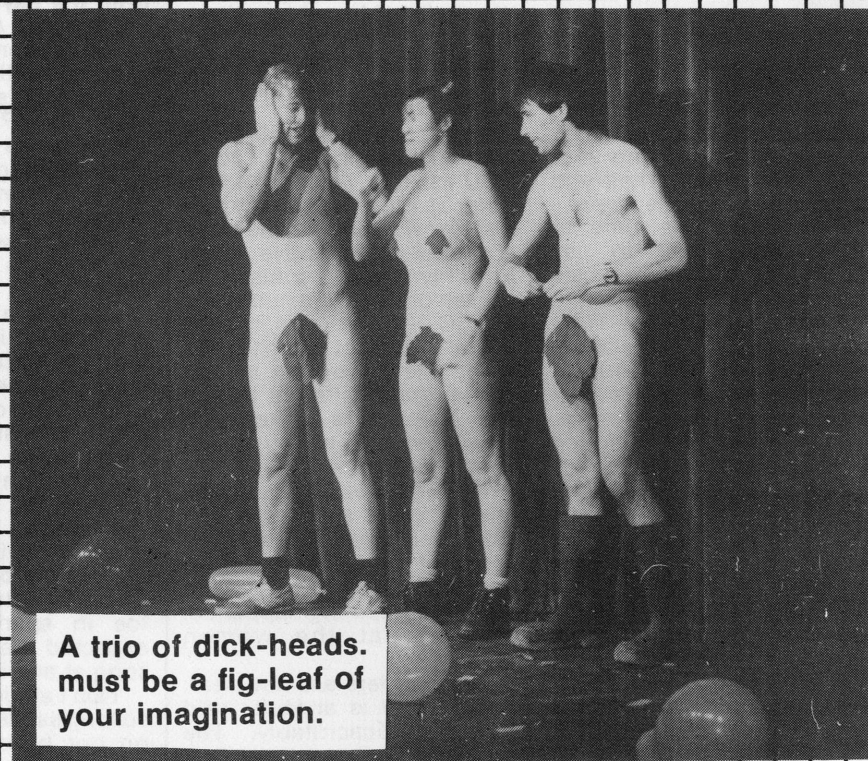


Funny how the water's always deeper at the front:

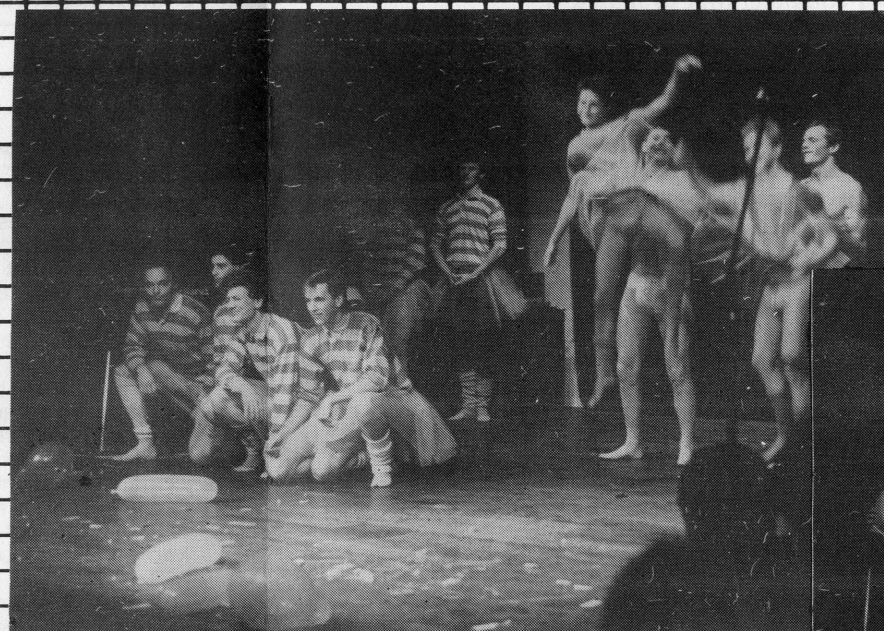
RCS paddle uphill to victory in the CCU rafrace.



Soliciting funds.



A trio of dick-heads. must be a fig-leaf of your imagination.



A rare moment of grace for the rugby club...  
...lovely smiles, but their breath smells.





# IN THIS ALIEN ENVIRONMENT, SPACE TECHNOLOGY IS OUT OF ITS DEPTH

Inspecting underground gas pipelines for faults may not sound like the ultimate high-tech challenge. But, in fact, the task proved to be beyond the 'state-of-the-art' technologies previously available – even in military and aerospace applications.

## PROBLEM:

Design a vehicle which can travel inside the pipe, carrying equipment capable of identifying any significant defect, and pinpointing its position to within a metre in a run of up to a hundred kilometres or more.

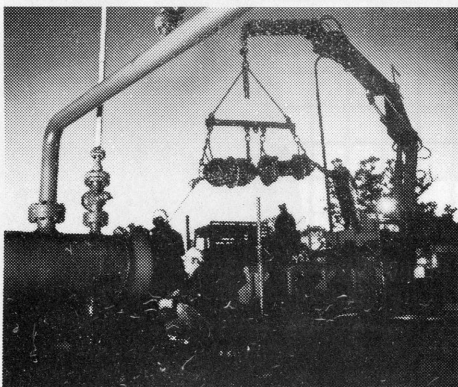
## SOLUTION: THE INTELLIGENT PIG

The Intelligent Pig, developed by the gas people, is a vehicle carrying highly advanced sensing, data processing and recording equipment. Driven through the pipe by the gas pressure within it, the Pig can be used without taking the pipe out of service.

What is more, it can not only pinpoint any defect on the inside or outside of a steel pipe, but even describe its nature.

## HOW?

Using strong magnetic fields or elastic waves propagated at ultrasonic frequencies, different types of sensors can detect corrosion, cracks, impact damage or distortion of the pipe. But the real challenge lay in processing the hundreds of millions of signals produced by the sensors in an average run.



## THERE WASN'T A COMPUTER SMALL ENOUGH AND TOUGH ENOUGH

Many of the pipes to be inspected are less than 305mm in diameter. To fit sufficiently powerful data processing equipment into the tiny space available, hybrid microcircuits incorporating custom-designed silicon chips had to be developed. And since the space restrictions also limit battery size and therefore power, many of these highly advanced electronic components have to operate at the very limits of their specifications. What's more, the environment inside the pipe isn't exactly friendly. All the highly sophisticated equipment carried by the Pig has had to be designed to tolerate or be protected from extreme vibration, mechanical shock, dirt, and gas pressure of up to 70 atmospheres.

## A 'TOMORROW'S WORLD' TAPE RECORDER

The sheer volume of data to be stored inspired the development of what is probably the most advanced ultra-miniaturised tape recorder currently in

existence. Making extensive use of sub-miniature hybrid microelectronics, new types of recording heads and ultra-precision mechanical engineering, this little marvel can store up to 500 million readings on a single reel of standard one-inch tape, with an accuracy of better than one-thousandth of one percent!

## FROM REEL TO REELS

Once the Pig has finished its run, the next job is to prepare the data for analysis by powerful, advanced computers such as the VAX 11/780. There's so much information in the Pig's tiny recorder that many reels of computer tape are needed to receive it, and many hours of computer time to analyse it.

## THE RESULT

Britain's underground gas transmission network is a multi-billion pound asset. And the technical pyrotechnics we've just described have a thoroughly down-to-earth end result – they help the gas people to maintain this asset more efficiently and cost effectively.

## WHY THE GAS PEOPLE LIVE IN THE FUTURE

The fact that gas is Britain's most popular domestic fuel – and a powerful and growing force in industry, too – is the result of many years' foresight, planning and massive investment by British Gas scientists and engineers. And they're still working for the future – to meet Britain's energy needs in the next century.

# THE GAS PEOPLE - WORKING FOR TOMORROW'S WORLD TODAY

**Gas**



## Bookshop News

With Christmas in mind, we can get any of the pewter mugs engraved with or without IC Crest. It usually takes about a week. Keep your eyes on the window for new titles. There are a wide range of desk and pocket diaries for 1985.

### NEW TITLES

**The Avocado Cookbook** Jill Graham  
Lansdowne Press £4.95

**Life at the Court of Queen Victoria** Barry  
St John Nevill Webb & Bower £12.95.

**Magimix Cookery** Marika Hanbury  
Tenison ICTC £9.95

**The Diary of a Nobody** George &  
Weedow Grossmith Elm Tree Books £10.95

**The English House through Seven  
Centuries** Oliver Cook Penguin £9.95

**Besley's Britain** Souvenir Press £3.95

**Chinese Cookery** Ken Hom BBC £5.25

**On the Fiddle** Ged Neary Blandford £1.95

**The Love You Make** Brown & Gaiman Pan  
Books £2.95

**1000 Photo Tips** John Farndow Pan Books  
**Birdwatchers Britain** John Parslow Pan  
Books £4.95

**The Chandler Collection V3** Picador  
£4.95

**Vegetarian Kitchen** Sarah Brown BBC  
£4.50

**Charcuterie & French Pork Cookery**  
Jane Grigson Penguin £3.95

**Burning Leaves** Don Bannister Picador  
£2.50

**Gravity's Rainbow** Thomas Pynchon  
Picador £4.95

**Teaching a Stone to Talk** Annie Dillard  
Picador £2.50

**Shame** Salman Rushdie Picador £2.95

**So Long & Thanks for All the Fish** —  
Douglas Adams Pan books £6.95.

### QT

## Fat B

Ladies and Gentlemen, it gives us great pleasure to announce that we have arranged a number of speaker meetings: Melvyn Bragg (Feb 5), Barry Cryer (December 4) and first Terry Quirk (TQ — or QT??), the well-known Redbridge poet, who will give us a reading from his various books (with sherry and biscuits provided, subject to availability). His reading will start at 1pm on Thursday (see FELIX Diary). An example of this talent is shown on this page.

Basil Bumble was too fat  
a bee should be much thinner  
His stomach striped all smooth and flat  
and not stuffed up with dinner  
But one early summer's morn  
or was it early spring?  
He slipped upon a dew drenched lawn  
and bent his little sting  
Now a sting's no good, when it's all squashed up  
it hurts... (not just your pride)  
So he crept inside a buttercup  
and committed INSECTICIDE

### ICCND

## Artists for peace

This year is a busy one for the College CND group and to make it a success we need support not only from those who agree with us but from all of you. All our events have been concerned with the communication of ideas of peace in different media, via film, poetry, poppies, speakers, art and music. On Thursday 29 November at 1pm David Morris, chairman of 'Artists for Peace', and hopefully Ralph Steadman, will launch an art competition open to all students at IC, RCA, and RCM. The closing date for art of any sort (painting, drawings, cartoons, photographs, sculpture etc) on the theme of peace is the second week in January. Please hand your entries into the Union Office with your name and dept. Best entries will be put on exhibition and the winner will receive a Ralph Steadman original. I emphasize that anyone can enter whatever their views of CND or peace.

Why not be inspired on Thursday night by Peter Sellers in 'Being There', his last and best film.

### JEWISH SOCIETY

## Chanukah party

When someone says they are anti-Zionist, what do they really mean? On Thursday November 29 you can hear Dr J Gewirtz, Executive Director of the Defence and Group Relations department of the Board of Deputies of British Jews, discuss this subject in a talk entitled: 'Anti-semitism and Anti-Zionism — Is there a difference? 1.15pm Union Senior Common Room.

An integral part of the Jewish Diary is the Friday night meals. There will be two more this term, the first on the 30 of November. The second will be a special trip to Hillel House on November 7, where Professor Manny Lehmann, of the Computing Department at IC, will be the guest speaker. For both, meet at Beit Arch at 6.00pm.

For those who have still not sampled the delights of the traditional 'Bagels 'n' Chocolate spread' at famous Jewish Society parties, there is yet another chance coming up. On Tuesday, December 11, we will be having a Chanukah party, albeit prematurely, where you can now find 'Bagels and absolutely everything'. Chemistry 231 6.00pm.

For the answers to all your problems, except Mathematical ones, and ALL enquiries about Jewish Society events, contact Josie Glausiusz, Life Sci 2.

### AUDIO SOCIETY

## Music Night

We meet on Tuesday's around 7pm in the Union Upper Lounge, as informally as possible. Top manufacturers and dealers are regularly invited to talk about and demonstrate their wares.

On Tuesday 27 at 7pm, in the Quiet Room, Sheffield, Subjective Audio, a top London dealer, will be demonstrating a SH\*T HOT SYSTEM (Their words! See if you agree), and some more affordable items. There will be a friendly question and answers session, for those little things you were always afraid to ask about Hi Fi. They have also offered a substantial 15% discount on any orders taken (Spend next term's grant now!), but only on the night!

## Bull's bit

### National Coaches

The STA travel office in the JCR is now selling National Express tickets as well as the ISIC cards (which entitle you to one third off). The travel office is open each day from 9.30am to 5.30pm for coach tickets and many other travel facilities.

### Days off

The Engineering Studies Committee has agreed that all scheduled classes in Departments, Centres and Units within the City & Guilds College should be cancelled on 27, 28 February and 1 March 1985 to enable students to partake in the Centenary Celebrations.

### Textbooks

The Government is examining proposals to impose VAT on books and journals. This means that it will cost you more (up to 15%) for your textbooks. Should the demand for books fall, then print runs will be smaller and this usually results in increased unit costs for text books, which makes the situation worse.

Please write to your MP and complain. There is a list of all MPs and their addresses in the Union Office, and a standard letter if you don't want to write one of your own.

### Grants Cut

As you may have heard, the Government intends to abolish the minimum grant, make some families pay some or all of the fees and increase the amount that parents must pay to make up the full grant. In some cases, this can mean an extra £725 per year that parents must find. This comes into effect from the start of next session and it will affect many of you.

For your own sake as much as anyone else's, write to your MP and complain.

There will be a demonstration and rally in London in Jubilee Gardens at 3.30pm on Wednesday 28 November. If anyone wishes to attend, please meet there or at Beit Arch at 2.30pm.



## RUGBY

## First round success

IC 1st XV 37 Kent XV 6  
IC finished top of their group in the opening rounds of the UAU with an impressive victory against Kent.

Kent opened the scoring with a penalty, soon equalled with a penalty by Seccombe. IC then pushed forwards and after a deft handling move in the backs, Thompson timed a beautiful pass for Seccombe to score in the corner. Unfortunately the team seemed to lose conviction and after another Kent penalty IC were only winning 7-6 at half-time.

The second half was a different story with the wind and sun at our backs, Morris, making many penetrating runs into Kent's half. After two more penalties from Seccombe, Gilkes scored an excellent try creating space on the wing from nothing, duly

converted by Seccombe. All the tries after this were converted by Seccombe, so he'll not be mentioned again! Exley won an excellent ball at the line out ensuring that IC were nearly always on Kent's line. Parker broke from the base of the scrum and towered over to score. After another excellent backs move Clarke passed inside to Hargave to score. Through the whole game Reza won excellent ball and always helped the backs when stranded with the ball. The fifth try score by Seccombe came from a delicate pass from second row Mackay. Hagger had one of his best days reading the fly half accurately and quickly. In the second half the front row was solid. Individually Fyffe's chipping was immaculate, Ferris in his best game for us failed to score although he has two tries already this season. Jenkins was robbed on their line after an amazing sidestep from a short line. Phillips' tactical kicking was average.

Team Ferris, Jenkins, Fyffe, Exley, Mackay, Parker, Reza, Hargrave, Hagger, Phillips, Clarke, Morris, Gilkes, Seccombe, Thompson.

## FOOTBALL

## Cup run goes on after QMC draw

IC 1st XI 2 QMC 1st XI 2  
A hard fought and generally even game gave rise to this rather indecisive result in the first round of the ULU Challenge Cup on a cold and dreary afternoon at Harlington last Saturday.

Anxiety and desperation ran high when both captain and kit failed to turn up for the coach, but just as all hope seemed lost, they arrived.

Early on both sides struggled for the upper hand and much solid defensive work was required especially for the agile young debutant Jim Brannigan. But midway through the first half QMC scored a rather fortunate goal. IC then surged forward into attack culminating just before the break when Garry Lawrence, struggling through with a 'head injury', thundered a free kick from the edge of the box past a bewildered QMC

keeper.

After another rousing half-time team-talk from captain Neil, IC went out re-invigorated for the second half. More fast end-to-end football ensued and Mr Lawrence must claim the creative genius for the third goal of the game, when after much fancy footwork he split the IC defence with a perfectly timed through ball to give QMC another slender lead. Frustration followed for IC as they were thwarted time and time again until Neil slammed home the equaliser from close range.

A good team performance and another hard game in prospect for the replay on Wednesday.

Team P Simpson, J Brannigan, B Goldsbrough, R Richards, G Davy, G Lawrence, N Vandeberger, P Bravery, T Dutton, D Lynne, P Dent.

## Careers Presentation

*"Electronic industries are growth industries - growth in size, growth in breadth of application, growth in capital, above all growth in people of understanding, knowledge and skills at all levels of industrial authority."*

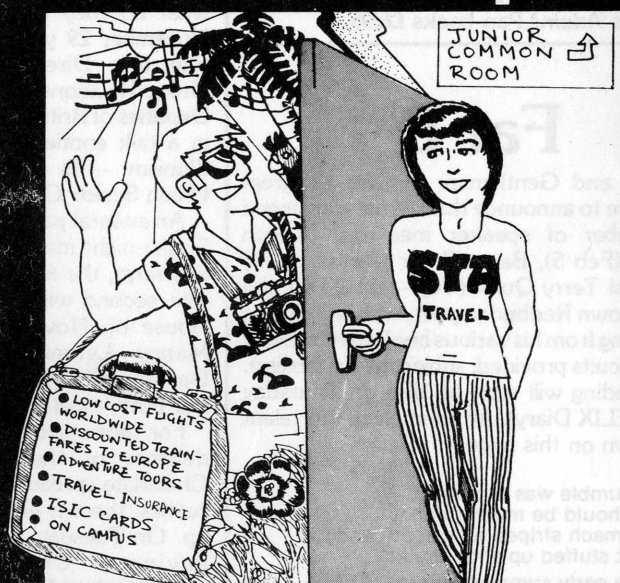
Leading Industrialist  
Sir Monty Finniston

As one of the world's leaders in this field, Texas Instruments invite you to a CAREERS PRESENTATION, with light refreshments and an informal discussion, in the Ante Room of the Sherfield Building between 7 p.m. and 9 p.m. on Thursday, 6th December.

**TEXAS INSTRUMENTS**  
... where people and technology meet



## ULU Travel is now on campus



IMPERIAL COLLEGE UNION  
THE JUNIOR COMMON ROOM  
SHERFIELD BUILDING  
PRINCE CONSORT ROAD  
SW7 2AZ Tel: 589 8882

**STA** travel



## BADMINTON

## Whitewash

UAU: 14.11.84

IC ladies vs Kent

Yet another Whitewash by our ladies team. — a nine nil win against Kent, who incidentally didn't even bother turning up!

This result means that the ladies have won all four of their games, and will go forward to represent IC in the regional play—offs.

Thanks to the team of Susan, Helen, Jane, Janet, Julie and Farida.

## DARTS

## Rikki saves the day

Blacklion—3 IC—4

After four very mediocre results the lads rallied together to produce a fine victory, not only winning the match, but also the legs of the cup eights and secretary's cup. This victory was somewhat inspired by Rikki who collided with a parking meter on the way there and had to go to St Stephens hospital for treatment. He took no part in the game and his absence allowed us to concentrate and emerge victorious. Buz and Richard were the stars (as always), aided and abetted by Neil, Alan and John. Pete and our glorious leader Ian were again on target with a three apiece! Matu replaced Pete and showed promise. Fat knackered Jaz was. Previous results: Harrington-4, IC-3; IC-2, Magpie & Stump-5, Finborough-3, IC-4, IC-2, Peterborough-5.

## MIXED HOCKEY

## Draw with Holloway

Last week twelve hearty souls, brave and true, went forth to besiege the goal of Royal Holloway. Due to several miscalculations and a total lack of ability IC found themselves 1—0 down at half time. After a rousing team-talk during the interval, however, a re-

structured side found the going more easy. Superior play from the ladies and inspiring comments from the 'keeper, Chris Jones, spurred the team into more constructive hockey. 'You hit it to me, I hit it to him and he put it in' quoth Louise — referring to D Wigney, herself and Chris Alcers respectively.

Sgt Pepper's ballet lessons paid dividends! Elegant pirouettes left the opposition flabbergasted — unfortunately not flabbergasted enough. Finally Paul Dubenski, having failed to employ his forehead to full advantage decided to use his stick instead to much greater effect.

Full time saw the score at 1—1, a fair result despite the fact we did not win.

Team: Chris, Jones, Alice Banks, Ian Mace, Liz Clark, Louise Wakeling, Duncan Wigney, Chris Alcers, Elaine Harper, Paul Dubenski, Sandra Rofé, John Spencer (Sgt Pepper)

## WATERPOLO

## Imperial — ULU Champs

IC vs King's College 10—5

IC vs Charing Cross 6—5

Imperial College became Champions of the London University Waterpolo after beating both King's College and Charing Cross Hospital teams. IC played King's College in the Semi-Finals of the ULU knockout competition. King's began the game nil-four ahead on handicap. The King's team contained some sharp individual talent but lacked coherence. One defensive error on Imperial's behalf allowed Kings to score their only goal. Imperial's ten goals come from a number of push shots and put College in the final. Charing Cross also reached the final and began the game with a nil five handicap lead. After a superb first time shot the score was two five. This match contained an excellent last goal, scored by John Barnes after he swam the length of the pool to lob a shot over the goalies' head. Once again the ULU trophy remains in South Kensington.

## UAU

## UAU News

Last week saw the completion of the Regional Rounds of the UAU competitions in Badminton, Football, Golf, Hockey, Netball, Rugby and Squash. Three IC teams have definitely qualified for the last 16 in their respective competitions: these are Ladies Badminton and both the Rugby first and second teams. The Football third team will also qualify for the last 16 if they beat the winner of the South East (North) group — UCL and the third placed team in the South West. This week the Rugby and Badminton teams are taking part in play offs against the winners of the SE (North) competitions to determine the winner of the complete SE group who will then

get a home draw in the last 16. The draws for the next round are:

Ladies Badminton:

South East I v North East II

East Midlands I v South East II

Rugby I:

South East I v West III

East Midlands I v South East II

Rugby II:

South East I v South III

South West I v South East II

Congratulations go to G Harker who has been selected to represent the Southern Division of UAU in a cross-country representative match against BPSA and the Army, and to B Gamblin who has been chosen as a reserve for this match.

UAU General Committee — Friday 2 November

This meeting consisted of some six hours of total boredom and decided practically nothing of importance. The only matters of any direct relevance to IC students are:

1 Two footballs will be purchased for the football club, out of a grant UAU receive from the FA.

2 Subscriptions and entrance fees are likely to rise in the near future to cover 'rising administration costs'.

3 Plaques, medals and pennants will no longer be presented to teams or individuals winning UAU Championships. Individuals will be able to order these items, through IC's UAU Rep after a Championship has taken place.

4 The present system of deciding which teams qualify for the last 16 is to remain unaltered although this is biased against teams from the South East. At present only two teams out of ten qualify directly from the South East and two teams out of five from the South West. A fifth place exists for the team which wins a play-off between the third place teams in the SE and SW groups. It was proposed that this fifth place should automatically be given to the third placed SE Team, but this was rejected mainly because Surrey, Sussex, Brunel, City and East Anglia abstained and LSE didn't even turn-up.

5 The UAU representative match programme will not be cut from two fixtures to one in any sport.

## SNOOKER

## Qualifying hopes after Manor Park draw

Manor Park 'B'—6 IC—6

There was never much danger of IC finishing with a points deficit from this handicap match. The past record of the Manor Park side meant that we started with a 180 point advantage, but with qualification from our group depending on final points total it was essential to hold on to as many of those 180 points as possible.

The team began well with Ian Grindall winning both of his frames and Eddie Smith capturing another to leave IC with a lead of over 100 points. The matches of Adrian Feasby and John West provided another 3 out of a possible four frames and it was soon apparent that we were going to claim full benefit of our initial lead.

In fact as began the last frame of the evening I was in the not too difficult position of having to avoid a 180 points defeat if IC were to finish winners. This task I was the equal of and so we ended with a haul of 175 points which can't do our hopes of qualifying any harm at all.



## Friday 23

● **IC RADIO HIGHLIGHT** 8.00 till 9.15am 999kHz. Chris Ames with the Breakfast Show, including Gig Guide, Cinema Guide and FELIX Review.

● **ICCND BOOKSHOP** 12.45pm JCR. Buy your Christmas gifts, badges, books, posters. Have a cup of tea and please join.

● **PRAYER MEETING** 1.00pm Union Building (follow arrows). Islamic Society congregational prayers (held every Friday).

● **PICKET** 5.30-7.30pm South African Embassy, Trafalgar Square. IC Anti-Apartheid Society.

● **CHRISTIAN UNION** 6.00pm 53 Prince's Gate (opp Mech Eng). 'Fit For Service' — with our guest speaker and possibly a visit from a Christian Expeditionary group. Coffee from 6.00pm and a lively evening guaranteed: All welcome.

● **THE GUILDS CARNIVAL** 8.00pm Union Building. Mud, Rent Party, and other bands, Two Discos, Barbeque, Cocktails, Bar extension till 2am, Films — 'Altered States' & 'Love and Death' (Woody Allen and goodness knows what else). Cost £3.50.

● **IC RADIO HIGHLIGHT** 8.00 till 9.00pm 999kHz. Viewpoint with Pete Hands including wine tasting article by Ajay.

## Saturday 24

● **IC RADIO HIGHLIGHT** 9.00am till 12.00am 999kHz. DJ's Saturday Grekky Show.

● **IC V SOUTHAMPTON** 3.00pm Southampton Bowl. First match of the season for IC's 'Crack Bowling Squad'.

● **IC RADIO HIGHLIGHT** 11.00pm till 1.00am 999kHz. Thro' midnight with Judith.

● **THE LOUNGE NIGHTCLUB** 9.00pm-1.00am Ground Floor Union Building. With live Band: 'Ram Ram Kino' (Ex-cult Band 'Crispy Ambulance'). Price £1.25.

## Sunday 25

● **CHAPLAINCY SERVICE** 10.00am Consort Gallery, Sheffield.

● **IC RADIO HIGHLIGHT** 11.00pm till 1.00am 999kHz. Rock on Sunday — start the week right.

● **MASS** 11.30am and 6.00pm More House, 53 Cromwell Road. Mass, Bar Supper and Talk.

● **WARGAMES MEETING** 1.00pm

Union SCR. 10% discount on games. Membership £1.50.

● **IC RADIO HIGHLIGHT** 2.00pm till 5.00pm 999kHz. Dave Hearnshaw — The show with a whole LP.

## Monday 26

● **ICCAG LUNCHTIME MEETING** 12.30pm ICCAG Office. Come along and find out more about our Community action activities.

● **SPEAKER MEETING** IC of the Anti-Apartheid society. 12.30pm Union Upper Lounge. Speaker from the controversial City Group talks on 'The South African Embassy Picket Campaign'.

● **HANGLIDING MEETING** 12.30pm Southside Upper Lounge.

● **CHRISTIAN UNION** 5.30pm Green committee room, Union, 5th Floor. Meet for prayer each Monday till 6.30pm.

● **IC WINDBAND** 5.45pm Great Hall. New members always welcome. Concert on 11 December.

● **ICCAG SPEAKER & BUFFET** 6.00pm Chem 231. Ann Scott (with experience in voluntary work in London) will talk on Social Needs in London etc. Chance to meet others involved in ICCAG, on a social basis. Price 50p.

● **IC RADIO HIGHLIGHT** 6.00pm till 8.00pm 999kHz. 'Live from Six' with Roland Hamp and Vince.

● **DANCE CLUB** 6.30pm and 7.30pm JCR Sheffield. 6.30pm — Jazz Funk & Disco, 7.30pm — Advanced Ballroom Latin. Price 75p.

● **WELLSOC** 7.30pm Physics LT1. Guy Lyon Playfair, a researcher in Psychic Powers speaks about 'New Directions in Psycho Kinetic Research'. Using slides and tapes he will present astounding evidence on the power of the mind including spoon bending, levitation, and poltergeists.

● **IC RADIO HIGHLIGHT** 11.00pm till 1.00am 999kHz. Hugh Southey with spontaneous incompetence.

## Tuesday 27

● **SCC EXEC MEETING** 12.30pm Green Committee Room.

● **AUDIOSOC** 12.30pm Union Upper Lounge. Discount Records Club meeting. Buy records, cassettes, videos etc at trade prices.

● **MASS AND LUNCH** 12.30pm Chemistry 231.

● **HOVERCRAFT CLUB MEETINGS** 12.45pm Lower Gallery Linstead Hall.

● **SPEAKER MEETING** 1.00pm Chem Eng LT2. 'Undersea Tunnel Construction'. Speaker from Ove Arup Partnership, Civil Engineering Consultants. Everyone welcome.

● **RIDING CLUB** 1.00pm Southside Upper Lounge. Meeting.

● **IC RADIO HIGHLIGHT** 1.00pm till 2.00pm 999kHz. Dave Stanley's Lunch Box.

● **CLIFF RICHARD INTERVIEW** 1.00pm and 6.00pm JCR, Southside TV lounge and halls. See Megastar Cliff Richard talking about his life and some of his pop videos.

● **LIFE POWER** 1.15pm Read Theatre. Paul Kriwaczek of the BBC talks about his recent Biotechnology series.

● **CABERNET SAUVIGNON TASTING** 6.00pm Union SCR. This grade produces the very famous French red wines of the Bordeaux area. The taste has been described as ribena and tomatoes!!! £1.50 members.

● **CANOE CLUB** 6.30pm IC Swimming Pool. Trip every other weekend.

● **JUDO PRACTICE** 6.30pm Union Gym Beit Quad. Price 50p mat fee.

● **DANCE CLUB** 7.00pm and 8.00pm JCR Sheffield. 8.00pm — Beginners Ballroom/Latin 7.00pm — Intermediate Ballroom/Latin. Price 50p.

● **OPSOC REHEARSAL** 7.30pm Music Room, 53 Prince's Gate. Meet in Southside Bar before rehearsal.

● **THEATRE TRIP** evening. Little Shop of Horrors a great musical about a man eating plant. Price £5.00 from Guilds Office Vice President, Guilds Union.

● **IC RADIO HIGHLIGHT** 9.00pm till 11.00pm 999kHz. Aids for Virgins or Virgins for Aids!!!

## Wednesday 28

● **LONDON X-COUNTRY LEAGUE** see noticeboard for details. Held at Shooters Hill.

● **ICCAG HOSPITAL VISITING** to St Pancras 12.45pm Mech Eng Foyer.

● **CARRY GREENHAM HOME** 1.00pm Huxley 130. A video portraying the Greenham Women, their courage and their purpose. ICCND Society.

● **WARGAMES** 1.00pm Union SCR.



10% discount on Games.  
Membership £1.50.

●**ISLAMIC TEACHINGS** 1.30pm 9  
Princes Gardens. What does Islam,  
Monotheism, etc mean.

●**MICRO CLUB MEETING** 1.30pm  
mines 4-01. Membership £2.00.

●**DRAMA WORKSHOP** 2.30pm  
meet Dramsoc Storeroom. Come  
and take part in some silly games  
and 'improvised' drama. Everyone  
welcome!

●**DANCE CLUB** 8.00pm JCR  
Sherfield. Beginners  
Ballroom/Latin identical to  
Tuesday class. Price 50p.

●**IC RADIO HIGHLIGHT** 9.00pm till  
11.00pm 999kHz. Jams's Rock  
Show.

## Thursday 29

●**METHSOC MEETING** 12.30pm  
Chem Eng E400. Informal meeting  
lunch available.

●**AUDIO SOC** 12.30pm Union  
Upper Lounge. Discount Records  
Club Meeting. Buy records,  
cassettes, videos, etc at trade  
prices.

●**ICYHA BUTTIES** 12.30pm  
Southside Upper Lounge. Our  
weekly meeting with information  
on this term's coming events. All  
welcome.

●**STAMP CLUB MEETING** 12.45pm  
Chemistry 231.

●**BALLOON CLUB MEETING**  
12.45pm Southside Upper Lounge.

●**'ARTISTS FOR PEACE'** 1.00pm  
Physics LT2. Chairman of 'Artists  
for Peace' David Morris and  
hopefully Ralph Steadman will talk  
about art and peace. They will also  
launch a College art competition.  
ICCND SOC.

●**TOM BURKE** 1.00pm ELEC Eng  
403A. Talk by a member of the  
Green Alliance. SDP SOC.

●**TONY BENN** 1.00pm Great Hall.  
SOC SOC.

●**QT POETRY READING** 1.00pm  
Union Lower Lounge. Terry Quirk,  
author of 'Basil Bumble' and others  
to give a reading.

●**SCI-FI SOC MEETING.** 1.00pm  
Union Green Committee room.  
Access to the Society's 600 volume  
library. All members welcome.

●**STOIC — NEWSBREAK** 1.00pm  
and 6.00pm JCR Southside TV  
lounge and halls. All of rag week  
that's fit to show (and also Morphy  
Day's)

●**JEWISH SOC MEETING** 1.15pm,  
Union SCR. Dr J Gewirtz, Exec  
Director of the Board of Deputies,  
speaks on: Antisemitism —  
Antizionism: is there a difference?

●**FILMS** 1.15pm Read Theatre  
Sherfield Building. Extracts from  
'Avant Garde' films including 'Off-  
on'; Melodic Inversion; and  
Gyromorphosis.

●**CONCERT** 1.30pm 53 Prince's  
Gate. Lynton Appel (cello) and  
Deborah Shah (Piano).

●**QURANIC CIRCLE** 1.30pm 9  
Princes Gardens. Learn how to  
read the Quran.

●**SCC FULL MEETING** 6.00pm  
Union Senior Common Room.

●**JUDO PRACTICE** 6.30pm Union  
Gym Beit Quad. Price 50p mat  
fees.

●**FILM 'BEING THERE'** 7.30pm ME  
220. Peter Sellers last film and his  
most favourite. Refreshments will  
be served at the interval. Price  
£1.00 non-members or 50p  
members.

●**KOOL SKOOL** 8.30pm Southside  
Bar. 'Kool Jazz hits Southside Bar'.

●**ICCAG SOUP RUN** 9.15pm Meet  
Weeks Hall, Princes Gardens.  
Taking soup, biscuits and meeting  
some of London's homeless.

●**IC RADIO HIGHLIGHT** 11.00am  
till 1.00pm 999kHz. Steve Little with  
thro' midnight.

**STAFF VACANCY** - required to start this year if possible

### Job Description

Short term help is required on a project to investigate the response of soils to conventional high-explosive blast. The initial duration would be for up to three months, starting as soon as possible, either part-time or full-time. However, it is probable that the additional work will be available until at least April 1986.

The immediate requirement is to assist in the design of an instrumentation system to measure the transient stress and movement within a soil mass subjected to a high-explosive blast.

It will be necessary to have good practical research experience. A basic understanding of fluid or soil mechanics and shock waves would be helpful.

Applicants may have a broadly theoretical or experimental background in Civil, Mechanical, Mining, Electrical or Aeronautical Engineering, Physics or, perhaps, Mathematics. The post might suit a post-doc or staff applicant; just possibly a writing-up Phd student.

Salary — a salary will be paid based on the appropriate University scale.

Further information may be obtained by contacting Dr S H Perry (Int 4731) Room 325 Civil Engineering, as soon as possible.

## THE PROFESSOR Science WORKSHOP N°1





continued from front page

that the recommendations on course changes and closures have been made on a financial and cost effective premise without due consideration of their academic validity or the respective departments wishes. Despite their lobby of the Senate Meeting, the proposals were passed with a large majority. It is widely thought that the Department of Education and Science, who fund the college, became aware of a drop in the position and status of the RCA since the 1960s. In order to stop the grant being cut, the RCA had to establish new objectives and a new policy to meet the challenge of the 1980s.

The Rector, Jocelyn Stevens, was recently appointed to achieve this task. In a statement following the announcement of the changes he stressed that the restructuring would take place within current financial limits. He added that it would renew commitment to research and would open up two new directions in which the college intends to proceed.

## Libraries shake-up

Probably you think the Central libraries Committee is an insignificant dry-as-dust bunch of tedious academics, meeting once a term to have a quiet cup of tea and congratulate each other on how wonderful our main library facilities are.

You are mistaken. The Committee met on Tuesday of last week and hammered out significant business. Amongst other things the Haldane library came in for some harsh criticism. The Haldane has been operating since June, as an experiment, the current system of access from the Sheffield Building only. It is debatable as to whether this has improved ease of entry to the library but it has certainly cut out completely the evening and weekend opening.

The student representatives on the committee made it quite clear that the change had not gone unnoticed, and was not welcomed. The point was well received and after several options had been discussed (including simply going back to the old system) a decision was made.

A proposal will be put to the College to install a security barrier at the Haldane Sheffield entrance. If this is approved it will enable the linking door to Lyon Playfair to be opened at 5.30pm, allowing everyone to enjoy the fiction library into the evening.

At present IC Union buys all the fiction books, records and cassettes for the Haldane, and this year it is proposed to spend £2500. This is seen as woefully inadequate to maintain an up-to-date and interesting stock and great efforts are being made to persuade the College that next year's allocation should be more realistic to maintain one of the college's most precious assets.

Tough luck smokers. From January the whole of the Lyon-Playfair becomes a no-smoking zone!

## Wellsoc

Wellsoc chairman Nick Maxwell has reacted strongly to the resignation of three Wellsoc Committee members reported in FELIX last week.

In their joint resignation letter F Alli, W Hooper and D Clements claimed that there had been 'considerable difficulty in communicating with the Chairman.'

'We have come to the conclusion that the society is being mismanaged by the Chairman,' they wrote.

Mr Maxwell accused the three of distorting the truth to make their story more convincing.

'The members went out with such a bang that it must have left few people in any doubt that Wellsoc has totally collapsed.'

'I would like to make it quite clear to the contrary that Wellsoc is a sound as ever before, and probably sounder,' said Mr Maxwell.

'Seven committee members remain, and they have been the kernel of our enthusiasm and activity.'

'The show must go on', concluded Mr Maxwell.

Wellsoc's first lecture after the resignation took place on Monday night when 120 students heard a talk on space travel. Alan Bond, an expert on rocket propulsion, explained the history of space travel and how the separate European, American, and Russian programmes developed.

The Russians have now developed a very large and adaptable rocket, with a payload that is sufficient to build space stations or even send a manned expedition to Mars. The speaker forecast a prestige race to mars between the super-powers.

Mr Bond ended his talk with a look at colonisation and economic exploitation, and the types of vehicles, stations and factories that would be needed. One proposed rocket, propelled by nuclear explosions, would convert its launch site, into a desert. A more realistic idea is a pulse engine relying upon lasers concentrating energy onto small pellets of fuel, forming an explosion somewhat similar to a white dwarf, though clearly not so large. This is how the 'Daedalus' unmanned star exploration vehicle can travel at up to 10% of the speed of light.

## SMALL ADS

### ANNOUNCEMENTS

●●●Do come to the dear little Guilds Carnival tonight. It's going to be ever so much fun. All you darling people are invited.

●Buy your coffee and tea, 10p a cup with free biscuits, during the interval of 'Being There'. This Thursday, 7.30pm ME 220.

●Everything you always wanted to know about wine. Fridays — IC Radio 8—9pm.

●Carnival The mega event of the year takes place this Friday 23 November at 8.00pm. Yes — its the Guilds Carnival. This year you can see MUD, the Milkshakes, Rent Party (from the Freshers Ball), and the Gymslips — as well as dancing in the two discos, stuffing yourself with the Great Barbeque food and getting absolutely P...d drinking well into the early morning (Bar extension and cocktails). Tickets are £3.00 from Guilds Office or IC Union office or £3.50 on the night.

●Have you been there? Will you dare go? A Man of peace, a man childishly stupid steps out into an adventure. He steps onto the pavement! 'Being There' a film starring Peter Sellers this Thursday. Will you be there?

●New Wellsoc Elections papers are up. Don't forget to rewrite your nominations for Vice-Chairman, Internal Secretary, Publicity Officer and Ordinary Member. Papers come down on 1 December 1984 and the elections are after the meeting on 3 December 1984.

●If anyone found a single key in or around the Students Union Building on 12 November would they please hand it in to security in Sheffield or to Students Union Office.

### FOR SALE

●Unisex bicycle for sale £50 ono. Three gear speeds, front basket and back saddle bag. Very good condition. Phone Debbie Int 3103. Finance Room 441, Sheffield.

●Jimmy Page four tickets row D for December 8 at Odeon £10 each. M Bartlett Civ Eng 3.

●Brown/Cream Umbrella — £85 one or will swap for Oric-1.G Skidmore

●Commodore 64 for sale hardly used £170 ono. Contact M Patel Aero 2, tel 459 6413.

●BBC Micro £300 or offers — contact Mark Cottle, Guilds Office or Civ Eng 2.

●Sony 55WPC AMP £50. Golf Clubs, 7 Irons, 3 Woods £50. Electric Guitar (Strat, copy) C/W 15W practise AMP (mains/battery) £80. Contact Chris Gordon Chem UG PH, or tel 603 1241(eve), 961 1777(day).

●REGA RB300 Tonearm boxed, mint condition and P77 (new Stylus) Cartridge. £150 ono will separate. Linn armboard £8. Contact A Yau civil Eng 3 via letter racks.

●Large Motorcycle tank bag good condition £6. See R Shammas Elec Eng Pigeon Holes or Room 55 Beit Hall.

●Gents Racing cycle Perfect working order £60 only.

### WANTED

●Lead Vocalist and Bass Player for 'Knob Goblin' — Gigs arranged. Contact R Morris Physics 2 L/racks — H R orientated.

●Dinner Jacket for person 6 foot 2 inches. 32 inch waist — anything close will do, but must be in good condition. Contact Bernard Le Duc via Chem Eng Letter Racks or Tel 748 3655 (Flat 209).

●Singer and drummer wanted. Come on all you extrovert rock lovers. Animal drummer and poser vocalist needed badly to form a quality rock band. Get off your arse and join us. Practise on Saturday. No wimps need apply. Contact J Grey Aero 1.

●Ladies Bicycle up to £40. Contact Liz Harfst Biochem 2 or Gareth int 6289.

### PERSONAL

●Mike Molloy, Elec Eng 3!!!

●Frankie say 'RELAX': Icas says 'Don't Bother'.

●Stalin is alive and well and living just south of the Scrubs. Contact Mulligan the Wallaby for more details.

●Watch out, pedestrians! Here comes a minibus.

●The real ICAS do it with concave mirrors (and have done for years). Death to the Imposters!

●Advanced Warning: Attend Friday afternoon Civ Eng materials lectures for a shock horror expose.

●Richard 'D D' Elwen Enterprises present the forthcoming premiere of 'Hot Trainspotting Lust starring\*\*\*

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●Who needs brakes when you've got a Vauxhall Viva in front of you.

●Vauxhall Vivas stop all known hire cars — DEAD!

●N McCulloch, stopping distance 70 to 0 in one boot length.

●Introducing the New Shorter Cavalier—Contact N McCulloch

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