



Felix



NEWSPAPER OF IMPERIAL COLLEGE UNION

ACADEMICS TO TAKE STUDENT FLATS

The two student flats on the Southside Penthouse level are to be returned to academic staff warden occupation after just five terms as student residences. The decision is amongst a number of controversial moves contained in a College notice on *The Management of Student Residence* issued by College Secretary John Smith. The notice is the end result of the *Report on Student Residence at the College* by Mr John Lauwerys Senior Assistant Secretary, published in February last year.

Also in the notice is confirmation that the College is to acquire an additional 125 places in College-owned residences. There are a number of properties under consideration, including some additional houses in Evelyn Gardens. These additional places are necessary to keep the total number of places over the target of 2,000 with the loss of some places in head tenancies.

The management of residences is to get a shake-up as well, the notice reveals. A new post of Managing Surveyor (Residences) will be created to take some of the wardens' administrative and domestic workload, for example control of cleaning and maintenance. Mr Peter Hallworth, presently a surveyor in Estates, has already been appointed to the new post. This new post conforms largely with the recommendations of the Lauwerys report, and is designed to enable wardens to 'concentrate on their

pastoral, social and disciplinary roles'.

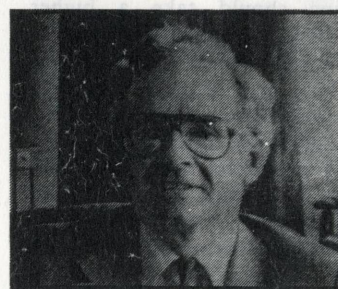
The financing of residence is also considered in the notice. It seems that more effort is to be made to separately identify costs of residence and charge them to the residence account. This includes the cost of security patrols and services such as heating and lighting. This is likely to result in higher rents or less money being spent on residences.

The power of the student residence committee is also to be reduced to that of an advisory committee rather than a policy-making one. This is generally believed to be a way of reducing the blocking power of wardens, who have in the past been successful in frustrating College and Union plans for changes in the running of the residences.

Two years ago the College took a decision to reduce the number of wardens in Southside from four to two as an economy

measure, and to use the two vacant wardens' flats for student accommodation. This resulted in each Southside warden being in charge of two of the four 'halls' which make up Southside. This move was strongly opposed at the time by the wardens themselves and some Southside residents whose warden was being removed from the job. It is common knowledge that the two remaining Southside wardens, Dr Paul Jowitt and Dr Henry Hutchinson, were opposed to having students as neighbours on the Penthouse level. This resulted in a term's delay in getting students in the vacant flats whilst wrangling went on about the conditions to be imposed on residents.

The latest decision represents a complete change of direction in College policy and amounts to an admission that John Smith now believes the earlier decision to reduce the number of wardens was a mistake. The real reason for Mr Smith's change of mind on this issue may well be pressure from Mews residents who complain about lack of discipline in Southside. The appointment of another two wardens may well be



John Smith.

seen as a concession to them.

Although it has been decided to put two extra wardens in Southside it has apparently not yet been decided which residences they will be in charge of. It is possible that there will be a reversion to the previous situation in Southside with four 'halls' each with its own warden. But John Smith told FELIX that consideration would be given to putting the new wardens resident in Southside in charge of other properties such as Evelyn Gdns, Montpelier Street or unspecified new residences which the College is hoping to acquire. The most likely of these new properties is Cadogan Court, situated between Queensgate and Gloucester Road.

See Editorial for comment.



Q-What do Mike Stuart's head and the site of the missing shield have in common? A-they're both bare!

Shields Returned

Twenty-one of the twenty-two shields stolen by a University College mascotry team last Thursday were returned to the Guilds Union last Friday evening.

Guilds President, Mike Stuart had issued an ultimatum to University College Union that unless the shields were returned before 2:00pm on Friday he would inform the police, as reported in last week's FELIX.

At 4:00pm on Friday the Guilds Office received a call from UC Union stating that 21 shields

had been recovered and could be collected from the UC Security Office. When they were collected it was discovered that a number of the shields were scratched and slightly damaged. It is understood that if the missing shield is not recovered, UC Union will be asked to pay for a replacement.

The hostage captured by IC students, Adrian Head, a UC student, was held overnight at IC. He was finally released when the 21 shields were handed back.

Gaynor Freaks Out

Dear Pallab

I was disturbed to note that in last week's FELIX the Selkirk Hall Disco appreciation society felt that the improvement in the quality of a certain food product by the Catering Manager should have taken second place to the weekly disco in Southside Bar. Naturally, Mr Mooney should diversify his interest over the whole of the refectory system, though I have no doubt Mr D Rowe would believe that baked beans should take a higher priority than the weekly disco.

However, to set the residents of Selkirk Hall at ease—not only has Mr Mooney improved the quality of the baked beans in the Union refectory but, contrary to their accusation, has also agreed to purchase new disco equipment specifically for use in the Southside weekly disco, and the College has undertaken to improve the 'sound proofing' of the Real Ale Bar area such that the discos and maybe even other events will continue on a regular basis! Perhaps Mr Mooney is not such a 'cheapskate' after all!

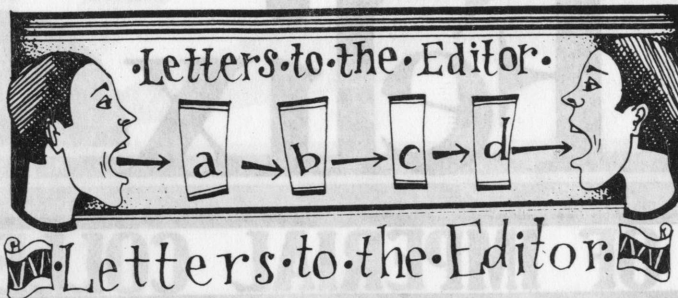
Yours sincerely
Gaynor Lewis

TV Tits

Dear Pallab

Please could you, confirm whether rumours I have been hearing about one of the Union media (not FELIX) are true or not. It has come to my attention that the medium in question has denied membership to certain students purely on the basis of the personal feelings of the committee. Not content to discriminate against those they do not like, the friends of the banned students have been feeling the wrath of the current Junta. One such friend was to conduct an interview with a celebrity and had done a great deal of background research only to be told that he wouldn't be doing the interview after all. Instead, his place has been filled by an ex-member of College who has had no experience of such interviews and who is no longer in the union.

I can already hear the cynical saying, 'So what?' But I believe it is important that everyone who holds a unioncard should at least be allowed the opportunity to



Letters to the Editor are always welcome on any subject at all. They should be submitted to the FELIX Office before Monday 1:00pm for inclusion in Friday's FELIX.

join every college society. Of course it will be difficult to prove this state of affairs but if matters change because of this letter then the issue will no longer be important.

Such a change is unlikely, but if the present situation goes on uncriticised, then the video-nasties will surely have won.

Yours sincerely
An innocent bystander
name and dept supplied.

Sports Slammed

Dear Mr Ghosh

Many congratulations to your sports page editor for managing to reduce the normal two pages of sport to just one side of bland reports. We note that only five clubs could be bothered to submit articles which conformed to your stringent guidelines.

We sincerely hope that you manage to remove the sports page altogether by the end of the year.

Yours sincerely
John Hart
Martin Hall

Star Struck

Dear Pallab

I just thought you might like to know that somebody out here (ie me) thinks you are doing a really pathetic job. Over the last two weeks Astrosoc has submitted two entries for the clubs column and two for What's On. Of these you condescended to print part of the last entry for What's On, most generous of you. It may not have occurred to you that people

actually read FELIX but on the assumption that some do we try to publicise our events in it, it seems, however, that you have other plans. If you cast your mind back to last term you may remember we complained about this to you both verbally and in writing. Needless to say you did not print the letter of complaint and you are still as unhelpful as ever. Perhaps if you cut out half of those boring film/theatre reviews (which nobody I know of reads) you might just be able to find room for a paragraph or two about us.

Yours with considerable annoyance
T Wildish

Chairman, IC Astrosoc

PS: If this letter gets printed I will be unable to contain my joy.

Ed's Note Clubs articles and What's On entries will not be published if they are submitted after the Monday 1:00pm deadline. Neither will they be published if they consist of the inconsequential irrelevant drivel that you regularly submit. Priority is given to concise informative articles that advertise forthcoming events.

Obnoxious Hack

Dear Pallab

I suggest that the obnoxious Simon Banton's letter in Feb 2's edition of *London Student* does much more damage where it matters to this College's image than anything which Michael Newman is responsible for. Indeed, while Michael Newman's campaign against Mines' ridiculous porn night shows a glint of human values within the College, Simon's ranting letter on mascotry suggests strongly that the writer is a moron. Is he unaware that not only are the majority of London students uninterested in

mascotry, but also that many regard it as the epitome of mindlessness? He even sneers that 95% of Chelsea College students 'haven't even seen their anchor'. —Lucky 95%!

Outside readers might assume that the letter was written by a typical IC student whereas it was in fact written by a typical CCU (RCSU) hack—a very different thing.

I believe that the rift between most IC students and the CCU's is very large, and that the latter's activities can be summed up as kissing each others arses and pretending they are doing it for everyone else's benefit.

The strange ratio of the sexes in this College goes hand in hand with the mascotry mentality and the ratio will only improve as science and technology attracts more rounded personalities altogether.

Yours sincerely
Dave Lock
Physics I

PS: Read the letter—it's hilarious.

Dear Sir,

Having read your report in your January 19th issue, I feel your readers should have the record set straight as regards our Mascotry activities.

Firstly: "Mary" the leopard (which is incidentally plaster and wood, not concrete) belongs to Queen Mary College, not Chelsea.

Secondly: Chelsea College's mascot is an anchor, not a leopard.

Thirdly: The ransom paid by QMC was a cheque for £40 and 80 pints of blood, the cheque and a receipt for the blood being handed over on Wednesday the 11th of January outside the Royal School of Hygiene, opposite SOAS in Malet Street. In return we loaded the leopard into QMC's van in order for them to take it home.

Fourthly: To our knowledge, neither QMC, who paid the cheque, nor Chelsea, who didn't, have cancelled it. I am glad Steve Woodward has got something to gloat about, considering that 95% of Chelsea College students neither know of, nor have ever seen, their anchor. Indeed, the majority of students there that have heard rumours of a mascot, firmly believe that it is dumped in the River Thames!

Lastly: It was the **Royal College of Science Union** that relieved QMC of their mascot two years ago, and we are proud to be an **Independent** part of Imperial College!

Yours faithfully
Simon Banton

Estates Washed Out In Paint Fiasco

It should have been a red letter day for RCS Motor Club last Tuesday! Their prayers (requests to Estates) and patience had been rewarded! The yellow lines to oust the pesky parkers outside their garage were being painted. They were overjoyed!

Until it started to rain that is!

And it was then that they realised that Estates had used water-soluble paint!

'Now you see them, now you don't,' said an RCS Motor Club spokesman as he watched the

yellow lines disappear in a rainstorm.

'There'll be some red faces in Estates tonight,' he added.

The garage is used to house the RCS motorised mascot Jezebel, a 1903 Dennis fire engine.

RCS Motor Club were getting hot under the collar when people started parking their cars outside the door, making access to the garage impossible.

It is hoped that Estates may repaint the lines. And next time they won't use a water soluble paint!

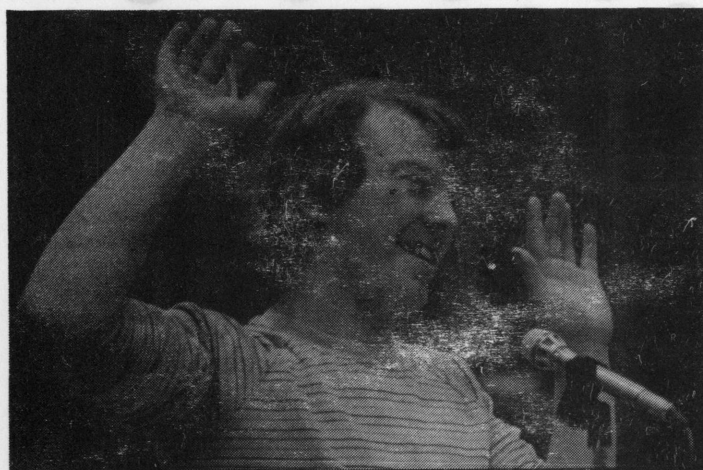
Leading the Way

A four year extension to a contract for research into lead dust in the environment has been awarded to Dr Iain Thornton of the Applied Geochemistry Research Group in the Geology department. The contract is awarded by the Department of Environment.

The work which began in 1981, involves the study of lead,

cadmium and other heavy metals in urban and rural dusts and soils. A massive survey was conducted during the first two years of the study. Dusts from schools, floors and streets were sampled. The survey will now be extended to include lead in old paints and from car exhaust fumes. The levels of lead to which young children are exposed will be investigated, in particular.

Paddy's Punch Up



IC Union Hon Sec Sean Davis was nearly arrested last Tuesday during the Guilds Field Cup event when he threw a punch at one of the Guilds marshalls supervising the competition.

The object of the event is to collect points by drinking, collecting treasure and carrying out odious tasks in a number of local pubs. Sean Davis was prevented from entering one of the pubs by a member of another team, lost his temper and threw a punch. The landlord of the pub

responded by calling the police. However our Hon Sec, as elusive as ever, escaped before the paddy wagon arrived.

A Guildsman was not so lucky when during the event he was caught red handed by the police attempting to remove a car registration plate (one of the items of treasure).

As a result of the treasure collecting Beit Quad was festooned with red bicycle racks, wheel barrows, bricks and Sainsburys trolleys on Wednesday night.

Clement's Freudian Theories



Clement Freud, MP and Liberal Club Chairman Simon Nield.

Mr Clement Freud MP spoke on 'The Future of British Education' at a meeting organised by the Liberal Club on Tuesday. In an informal atmosphere, facilitated by an audience of around twenty-five, Mr Freud discussed the problems facing higher education in this country.

It was the policy of the present government, he said, to place economic considerations above political or educational ones. A generally short-sighted approach was being adopted, little care being taken to ensure that the system was capable of sustaining

the recommended cuts, so damaging institutions and the people within them. In fact, the Tory party has no education policy as such; education is merely affected by the financial policies.

The aim of a Liberal government, said Mr Freud, would be to provide as many people as possible with the opportunity of going into higher education, and to broaden the pattern of access involving the inclusion of extra-mural courses. They would also try to break down some of the barriers between work, leisure and education.

Merlyn Toes the Line

But He's not Fooling Anyone

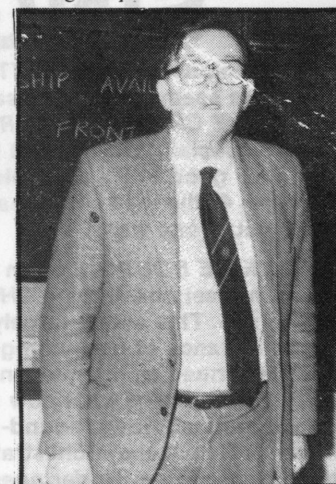
Last Tuesday Labour MP Merlyn Rees spoke to an audience of about fifty students on 'Labour Party Defence Policy'.

Mr Rees explained that the Labour Party manifesto represented the views of one conference and should not be taken as permanent. He believed the defence policies had to be put to the people in a more credible way, and may need to be modified.

He attacked the government's increased defence expenditure, particularly on the Trident system, but gave the warning that if we were to unilaterally give up our nuclear defence Britain would need a greatly increased conventional defence.

Mr Rees has often been seen as a strong opponent of Labour's defence policy within the party.

In his speech at College whilst indicating criticism of the defence policy he stopped short of outright opposition to it.



Rt Hon Merlyn Rees, MP.

BINGO

- Enchanting Ellen Sherwood, the Rector's personal assistant, spends all day pretending that he is at meetings, doing all his work for him and calming him down after an issue of FELIX has annoyed him. When she finds time though she makes sure that she glances at FELIX before her copy is thrown in the bin by her boss.
- FELIX managed to photograph Ms Sherwood this week during the Rector's regular five hour lunch breaks.
- Overworked Ellen would dearly love to get away from the Rector for a weekend's free holiday to Amsterdam. That's why she plays FELIX Bingo!
- But she only stands the same chances of winning as the rest of you so make sure you check your ULU card each week.
- Whoever wins they are certain to have a fabulous time in Amsterdam. Accommodation is at the well situated Cok Hotel. It makes an ideal base for visiting the Rijksmuseum, Ajax football stadium and all Amsterdam's other attractions.



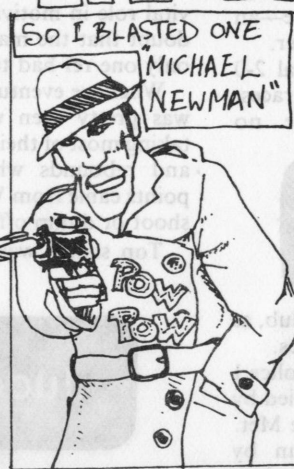
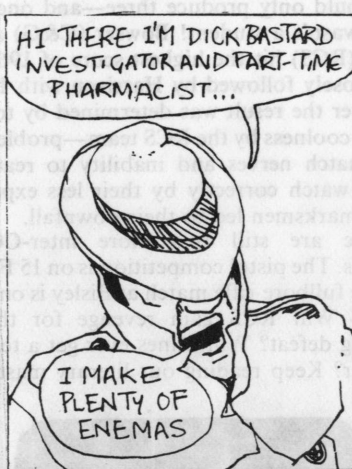
Photo: Matt Fawcett

This week's number is two.

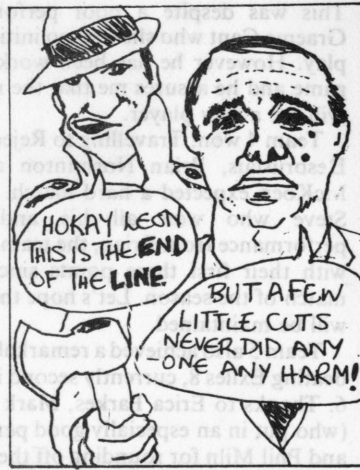
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Sailing

IC vs London Hospital Won 2-0

Bristol University Sailing Club were hosts to the London Hospital and Imperial teams at the weekend in the scenic surroundings of Cheddar.

Imperial sailed Bristol first in rather blustery conditions. The first race was hotly contested with some good team racing from both sides. Imperial had a commanding 2, 3, 4 combination by the second leg but at the gybe mark Jones (Captain) was a little too over generous with the roll and ended up with a very deserved capsized. By this time with the help of Howarth, Kennedy had managed to gain the lead but threw it away up the last beat. Imperial finally scraped home with a narrowly winning 2, 3, 5 combination.

In the second race a hasty gybe by Kennedy when being sailed away from the windward mark levelled his capsized score with Jones. But the team did not give up and even with this handicap managed to herd off Bristol's attack, and seemed set to take the match. However discrepancy over where the finishing line was resulted in a resail being demanded by Bristol. In true sportsman fashion Imperial obliged, and it was in this race disaster struck. Jones lost his toe straps up the first beat. Howarth broke his rudder. And Kennedy demonstrated the art of leaving a boat on full plane. It was then our turn to claim a resail as a result of gear failure—an event scheduled for tomorrow at Exeter.

Imperial then beat London Hospital 2-0 with 1st, 2nd and 3rd positions in both races. Watch out Bristol—Imperial take no prisoners!

Ping Pong

This was an exceptional week for the club, as all the teams put in great performances.

Team 1, although losing gave Met Police 1 a good run for their money, a fact belied by the wide margin of victory, 8-1, to the Met.

Team 3 sustained their good run by winning their fourth match in succession. This was despite a poor performance by Graeme Cant who showed no initiative in his play. However he has been working on his game and he assures me that the next match will see a new player.

Team 4 won! Travelling to Rejects 4, Steve Desbruslais, Brian Norminton and Kevin McKoen expected a hard match. Thanks to Steve who won all his and a good performance from Brian, the team came back with their first three points since the first match of the season. Let's hope this recovery will be maintained.

Team 5 also achieved a remarkable victory, beating Exiles 8, currently second in Division 6. Thanks to Erica Parkes, Mark Cortacans (who put in an especially good performance) and Phil Miln for rounding off the week with a flourish.



Yes folks, everyone's at it. Play FELIX Bingo every week in your fun, fun FELIX.

Basketball

ICBB vs St Marys won 86-69

IC have once again shaken the foundations of the London Colleges League by inflicting upon St Marys their first defeat. (They're not very chuffed!)

Imperial, arriving in style by cab, had only seven men including latest recruit, American Walter 'the dude' Morgan, who was to play a vital role in motivating the team. There was doubt that the match would go ahead since only one ref had turned up.

When we eventually tipped-off the scoring was pretty even with Marys two big men taking most of their points from inside moves and rebounds whilst many of Imperial's points came from Walter's excellent drives to shoot or dump off to Panos for a shot.

Top scorer was Panos with 28 markers.

Judo

IC vs London Hospital

Men's team: IC 47, LH50

Women's team: IC 20, LH10

Although the competition was really a 'friendly' it produced some good judo. The men's competition was closely fought, with this year's beginners doing very well, but we narrowly lost, probably due to Graham's absence at the competition (but not in the bar afterwards). The women's team did better, of course, with good performances from all members, especially beginner, Sarah. A good evening was had in the bar afterwards with a promise of a return visit to London Hospital in the near future.

The club still meets for a good punch up on Tuesdays and to practise techniques on Thursdays, both at 6:30pm in the Union Gym, and old and new members are welcome.

Rifle and Pistol

Courtman Shield

C&G 770, RCS 756, RSM 538

One of ICRPC's most important internal competitions was held last Wednesday, and won, resoundingly by Guilds led by Steve Harrison. The competition required each CCU to field five smallbore rifle shots, so this put RSM at a substantial disadvantage since they could only produce three—and one of those wasn't a student! Bowser (C&G) and Higgs (RCS) hit the highest score of 196 ex 200, closely followed by Harrison with 194. However the result was determined by total lack of coolness by the RCS team—problems with match nerves and inability to read a digital watch correctly by their less experienced marksmen led to their downfall.

There are still two more inter-CCU matches. The pistol competition is on 15 Feb, and the fullbore rifle match at Bisley is on 18 March. Will RCS gain revenge for their crushing defeat? Will Mines ever get a team together? Keep reading our literary masterpieces.

Waterskiing

This past week will have been our busiest yet. Most important will have been Monday's elections 'cos that will mean we'll have found someone 'proper' to do this job. Sorry about the publicity so far...let's hope it's better from now on.

Wednesday, of course, was the fabled 'first outing' where we all got to see each other making fools of ourselves in the docks behind Mr Taunton-Fenton's boat. It all goes to prove that you don't need anything but enthusiasm to get started. Within a couple of weeks we hope to fit an 'edge bar' to the boat. It sort of hangs over the side and makes it easier to start off. See all you 'still-interested' folks above Southside Bar, Monday 12:45.

More lowdowns and hot tips for 1984 from the FELIX music page **LIVE!**

Not for the first time this year a support band eclipsed the headliners at an Ents gig. Friday's billtoppers **RED LORRY YELLOW LORRY** were content to stand still and pound away at their guitars in a one dimensional attack on the senses. Unlike other practitioners of this bludgeoning form of new wave—eg the *Nightingales*—**RLYL** seem to take themselves very seriously and fail to show even the slightest hint of a sense of humour. Like much of the malaise/magnificence associated with the bleakest of the eighties bands **RLYL** problems/ strengths (delete latter) are directly traceable to *Joy Division's* first album. Whereas most listened with amazement to the redefinitions of the previously anaerobic constraints of guitar, bass and drums **RLYL** heard little more than the guitar grossout that was *Interzone* and failed to notice that even it kicked ass.

Kicking ass is not a term to be applied to the *Skeletal Family*, they prefer to whip their audience into a frenzy with a compulsive beat overlaid by guitarists Stan's contributions of multitextured guitar distortions which combine primitive brutality and joy in equal measures. Dominating the sound is eye-catching singer Anne Marie, swathed in yards of white cotton save her black dancing pumps and coloured crimped fringe. She soars, wails and whoops as well as *Slouxsie* and the band are committed to a direction the *Banshees* will never be brave enough to follow again. Overall their ability and total lack of pretension leave most similar gothic types for dead.



The Skeletal Family - photo Malcolm Grey

SINGLES

My opinions of the **SKELETAL FAMILY** are stated above and there seems little point saying anything more about their single *SHE CRIES ALONE* (**RED RHINO**) bar 1) it's very good, especially played loud 2) the B-side *The Wind Blows* is also very good 3) it's available from *Rough Trade* (Colville Terrace) 4) the lead singer has an Irish background—what more could one want?

BOURGIE BOURGIE seem to have caused an awful lot of press interest considering *THE BREAKING POINT* is their first single. This seems largely due to the recent preponderance of new young Scottish bands. Interesting and well performed as it is the single seems little more than a further example of what now shall be called the 'New Retrospection'. Bowie sound-alike *Paul Quinn* sings well over a James Bond type orchestration (ie *ABC*) on the A-side, a dead ringer for an *Undertones* riff on the B-side and although overnight stardom seems far away a Q-Tips live reputation seems highly probable.

Peter Rodgers

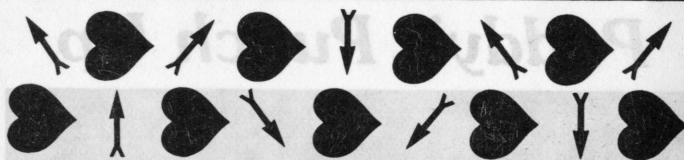
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WRITE of REPLY

Anti-porn campaigner Michael Newman writes in reply to some of the criticisms levelled against him for his recent actions.

In My Defence

'Hush, shhhh, no one's to know, it wouldn't do our College any good. Keep it quiet. Girls won't want to come here. Must not tell anyone. Give our College a bad name. I mean it's OK, isn't it, as long as it's not noticed.'

It seems that in my College, in my Union it is alright to tell people about our academic successes, our sports successes, our Rag stunt successes, our Union policy on grants, education, NUS, S Africa, refectory meals but not on pornography. We must act deaf, dumb and blind on this College issue.

It may surprise many of you but Imperial College Union has policy admitting that RSMU holds, organises and profits from hard-core pornographic events. Not only that, our Union also condemns any society, club or constituent union holding such events. It was Gaynor Lewis' job to inform all Imperial College students and staff of this and to inform the University of London Union.

'It's OK. I mean I would never go to such events. Oh, yes I find porn distasteful. It's not my cup of tea. I wouldn't stop anyone-else from going. Of course we mustn't tell anyone that it happens here. I mean that could damage the reputation of the College.'

If you have read the motions I proposed, if you have read the articles I have written, if you have ever listened to me speak you will know that I do not support banning people going to pornographic events or buying pornographic material. I feel it is and should remain our right to do so. I want it as a right as much as anyone else.

Yet pornography is dangerous, hard-core pornography is sick. It portrays women as sows to be fucked by pigs; as bitches to be fucked by dogs; as bodies to be penetrated by crosses, bottles and pricks; as bodies to be hit, held down, chained and whipped. It degrades all of us, especially women, and even those so ignorant they do not understand or, worse do not care.

'Look I do not feel degraded, let those who enjoy it go to such events. It is only once a year in College. If I do not go then it's nothing to do with me. Leave them in peace, it's only a bit of fun afterall.'

I expect a large number of students buy pornographic magazines. I expect they gaze at them, fantasize and satisfy their sexual arousal by masturbation. Indeed I include myself in this group, though I am not proud to do so.

My attitude to girls can often be one of degradation. I sometimes see them only as bodies to be leered at, as sexual objects, as prizes to be won and fucked.

I do not want to degrade people. Attitudes that I have had (since going to an all boys' school) for most of my educated life, are difficult to change.

I am a potential rapist. One day I could see a beautiful body wearing erotic clothes and ignore the screams, ignore the scratching and kicking. What right has a sexual object to say no? After all her whole purpose and function is sex.

I do not support or want to encourage my attitude. Should we all allow our Union to?

'That Michael Newman, he wants to enforce his moral code on everyone else. The arrogant moralist. Thinks he has the right to say what we should and should not do.'

I have no power to enforce my morals on anyone, even if I should wish to. All I can do is to make students aware of what their Union is doing and understand the difference between supporting freedom and organising, holding and profiting from events involving hard-core pornography and strippers. Within the democracy of the Union we can then decide upon Union policy.

'Just because he has lost, just because democracy has failed he goes to the press to exert external pressure on College to ban Hon Porn Night.'

I have not lost. My intent was simply to create debate, to force students to make a conscious decision, whether they wanted pornographic events in their College, organised within their Union, or not. I still believe they do not. In the end if anyone has lost it is all of us, it is the Union.

Democracy has not failed. We, as members of our Union, have decided by voting or through apathy that our Union should allow the pornographic events to continue. One thing I have always been taught is that you should accept the responsibility for your decisions and actions. It is a pity many students seem to have forgotten this.

How can anyone blame me if people choose not to come here because of the Union policy and the events it organises? After all out of all the students in College I have tried more than any other to change the policy. You should look more to yourselves.

'RSMU organises many social events during the year. They contribute greatly to the cultural life of the College. Why attack them?'

My campaign, unlike my opponents, has never involved personal attacks or abuse. It has not even primarily been an attack on Mines, I have merely criticized the two events they organise that involve pornography and strippers. RSMU might in many ways be a good Union, yet does this in some way make Hon Porn Night acceptable?

Chris Crownshaw thinks if he tells people what a great president he is, what a great union RSMU is, what great events they put on that magically Hon Porn Night will be forgotten. It seems that if degrading women is only a small part of their calendar then it's 'all OK with us boys'.

'Michael Newman should be sued for defamation of character. How dare he call us pimps.'

How dare we allow our Union to profit from hard-core pornographic entertainment, from films that are the product solely of prostitution. How dare we allow our Union to solicit for prostitutes by advertising their services and wares on film.

I think we are all pimps. This is not an insult, it is not meant to degrade, it is simply a term that can be correctly used to describe one of our Union's activities.

Indeed we are far worse than pimps. I think my motion does not go far enough. For we are allowing our Union to actively degrade people. To support the mental rape, torture and destruction of human beings. We are contributing to the suffering of the victims of rape, sexual exploitation, pornography and prostitution.

'Michael Newman is a bastard, a poof, a stupid prick.'

If you could have listened to some of the abuse I have been given, the way I have been insulted and degraded, I feel I would not just have your sympathy but also your support. I am human. You are human. All women are human. Please let's not forget it.

5. EDUCATION CUTS: PAST, PRESENT AND FUTURE

The story so far

The system of higher education in this country has largely evolved hand-in-hand with the industrial and economic expansion which followed the last war. In 1963, the influential Robbins Reports was published, with the conclusion that there should be open access to Higher Education for all those with two or more A-Level passes. In order to cater for growing popular demand, therefore, the University system was subsequently expanded and, later, the Polytechnics were developed. This growth continued up until the mid-1970s.

In 1980/1 Government cut-backs in public expenditure finally hit the Higher Education sector with a vengeance. Cuts in the Universities averaging 15% over the period 1981-4 were announced. These cuts were administered by the University Grants Committee (UGC), who were widely criticised at the time for acting hastily and without sufficient consultation when deciding where the cuts were to fall. The most obvious effects of the UGC cuts were reductions in student numbers and staffing within the Universities, although there is little doubt that teaching and research have also suffered.

Despite cuts in the number of students entering the Universities, the intake of students into the Polytechnics increased, and the last Conservative government was able to say that, because the proportion of eighteen-year-olds taking degree courses had grown, the 'Robbins principle' of open access had not been breached. Unfortunately, Polytechnic funding did not increase in line with the expanded intake. This meant that in many cases resources were strained to such an extent that students were being very much 'mass produced', consequently receiving an inferior quality of education.

The National Advisory Body

In 1981 the National Advisory Body (NAB) was set up to advise the Government on the distribution of funding for the Public Sector of Higher Education. The public sector consists of the Polytechnics and Further Education colleges, which are administered and funded by Local Education Authorities, and a variety of 'special' colleges.

The NAB's short-term aim was to advise on provision for the public sector for 1984-5 in the

In the final article of his series, Peter Burt writes about and comments on the wider issue of Higher Education cuts as a preliminary to the speaker meeting organised by the Conservative Society next Thursday. Peter Brooke, Under Secretary of State for Higher Education, will be speaking about the UGC questionnaire.

light of an overall 10% cut in funding. Sir Keith Joseph, Secretary of State for Education, has recently accepted the NAB recommendations, which will mean the closure of several institutions and courses and initiate a trend towards the centralisation of Higher Education. Nevertheless, the Polytechnics and Colleges will be expected to continue increasing their student intake. Despite decreasing numbers of part-time students and a £20m 'top-up', the unit of resource per student from the central pool of money will drop still further. Local Authorities, who in the past were able to provide extra money from their budgets for Further Education, also face strict spending limits and are unwilling to increase their contributions. This means, in all probability, even bigger classes with poor teaching. To quote an extreme example, the North East London Polytechnic will have to declare at least 125 academics redundant by the end of the year in order to comply with NAB recommendations.

It appears, that from now on, students entering polytechnics are destined to receive a second-class education.

Long Term Planning

Sir Keith Joseph has recently asked for debate to be opened on the issues that face Higher Education over the next ten years in order to formulate a long-term strategy for the future of the sector. For this reason the NAB has initiated a consultation with the Polytechnics and Colleges under its supervision, and is currently processing the replies to this consultation. Towards the end of last year the UGC sent out its now famous '28 questions' letter and opened a similar debate within the Universities.

Such debate has been long overdue, and the outcome will have profound effects in subsequent years. The debate provides

a golden opportunity to reform our Higher Education system. This is necessary for a variety of reasons. For instance, public confidence in the present system is not high. It is also necessary to redefine the 'Robbins principle' of access to Higher Education if people with suitable ability but without formal qualifications are to be offered places on courses.

The need for reform has not prevented severe criticism of, in particular, the UGC consultation, since the emphasis within their questionnaire is placed heavily on financial and economic issues rather than on the social purposes of education.

Universities are asked what changes they would make over the period from the present until 1989/90 on the basis of steady

has no present intention to implement any such cuts. This is scant consolation to the Universities, who already consider themselves to be receiving the minimum amount of money required to maintain academic standards and who were told at the time of the 1981 cuts that they would face no further reduction in funding.

The UGC questionnaire also asks for comments on a wide range of related issues. These include possibilities of lessening dependence on public funds and for shifting emphasis away from the Humanities and towards technical and scientific subjects. Questions are also asked about the nature of the 'binary divide' between Universities and Polytechnics and about the feasibility of divorcing research from teaching within the sector. Issues of particular relevance to students are raised, such as the possibility of reducing degree lengths to two years and the possibility of introducing courses allowing 'conversion' between Arts and Science subjects.

Individuals and interest groups within Colleges have been asked to put forward their own views in order to make the debate as wide-ranging as possible. However, it is set within the constraints of the current political thinking that education is an expensive millstone around the neck of the economy and that it should therefore be provided on utilitarian grounds alone.

SPRING TERM TIME TABLE OF EVENTS

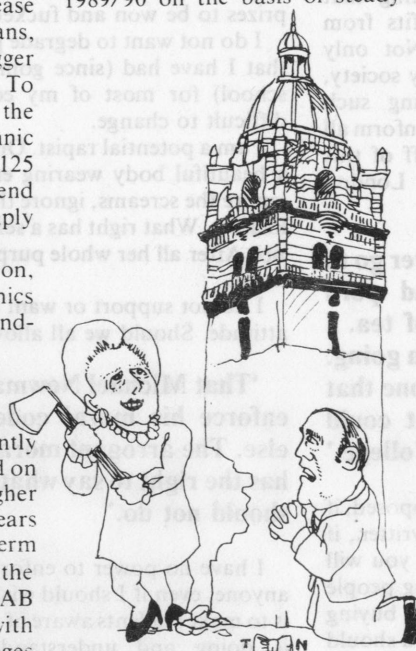
Thursday 16th February 1pm
Huxley 340, Peter Brooke, IC's constituency MP and government minister responsible for Higher Education, will be speaking as a guest of Consoc.

Thursday 23 February, NUS Day of Action The 'day of action' will hopefully take place in countries throughout Western Europe in order to protect education.

Tuesday 6 March, 1pm Mech Eng 220, Professor Alan Swanson, Pro-Rector, will be speaking on the response of Imperial College to the UGC's recent '28 Questions' as part of the Humanities Dept lunch time schedule.

Saturday 10 March National Demonstration, London. Be there!

Don't forget to write to your MP and sign the petition.



funding and alternatively on the basis of a 1 or 2% cut in the unit of resource per student every year over this period. This follows suggestions from Sir Keith Joseph that cuts in the order of 5-10% in University cash over the next five years may well be necessary in order to reach public expenditure targets, although he emphasises that the Government

Ah, But Your Land is Beautiful by Alan Paton

Set in South Africa in the 1950s, *Ah But Your Land is Beautiful* traces the lives of a number of people struggling against the restrictions of apartheid. Brought together by joining the newly formed Liberal Party, the book traces their progress as the party fights against a hostile establishment.

Alan Paton writes in a passionate style, which though disjointed makes the book difficult to put down. Written from a variety of viewpoints including that of a junior government minister who justifies the governments actions in frequent letters to his aunt, all his characters achieve a high degree of credibility whatever their political standpoint. For a person unused to the philosophy and practice of apartheid many of the attitudes of the characters in the book may seem so alien, as to be unbelievable, but the power of Alan Paton's writing will leave the reader in no doubt by the end of the book. Whatever the opinions of the person reading this book they cannot help but be moved by this powerful passionate novel, a book that it will be difficult to forget

Simon Neild

The Cement Garden - Ian McEwan (Picador) £1.95

This is a splendid modern short novel, which can be read in one sitting. It is one reason why McEwan stands in the front of the young novelists of the 80s

It's the story of how a family of four children handle the event of their mother's death, told from the view of an adolescent boy. This makes the book seem very fresh, and McEwan's descriptions are first rate. It's a book that makes you want to read it; a forthright novel with an unpleasant ending.

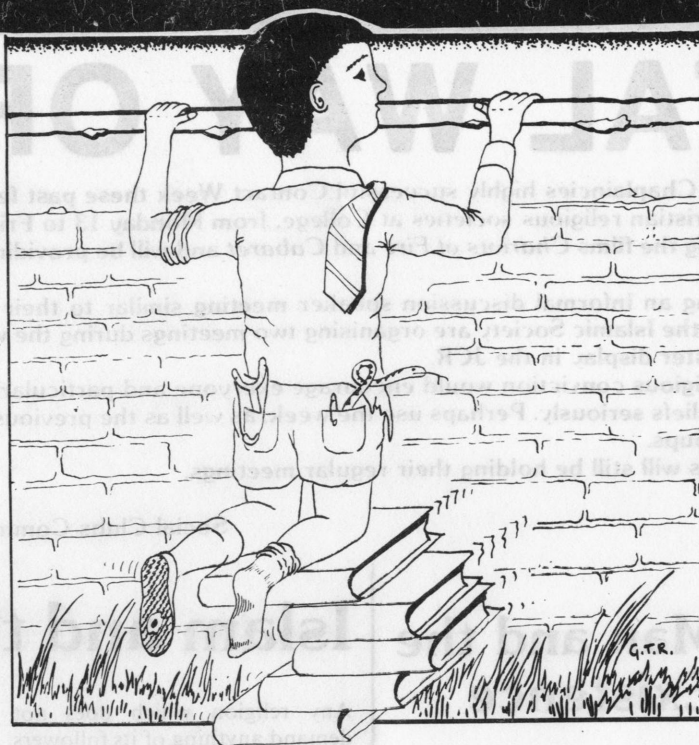
Jerry Hasnip

Mary McCarthy's List by Mary MacKay Picador £1.95

Rinda-sue McCarthy, the central character sits in a Mexican jail awaiting the firing squad.

She tells her story by a series of impossible, slapstick accounts of the people involved in her life, people who have used, abused and finally committed her as a paranoid schizophrenic. Rinda-sue however, fights back. She sees all the people who are against her as part of an organisation whose aim it is to take over the world. She learns that she, and she alone, can stop them

Is she a lunatic or is she the only sane person in a mad world,



All the books reviewed here are available from the Bookshop. If anyone would like a book to read for FELIX, please leave your name with a contactable address at the FELIX Office.

Bookshop Bestsellers

Home Winemaking — P & A Turner, Foulsham, £5.50.

The Life and Times of K — J H Coetzee, Secker & Warby, £7.95

More Goon Cartoons — Spike Milligan, Michael Joseph, £5.95

The Cement Garden — Ian McEwan, Picador, £1.95

Lancashire — Les Dawson, Elm Tree Books, £6.95

Ah, But Your Land is Beautiful — Alan Paton, Penguin, £1.95

Hardacre — William Wingate, Pan, £1.50

Dead Knock — Peter Turnbull, Fontana, £1.50

Floating Dragon — Peter Straub, Fontana, £2.50

Beelzebubs Beastly Barbs—A Cynics Dictionary — Diabolus Press, £2.00

The Works: Private View; One Man Show — Beryl Cook, £2.75

Windfall — Desmond Bagley, Fontana, £1.75

Mary McCarthy's List — Mary MacKay, Picador £1.95

whatever she is, Rinda-sue is the heroin, representative of women fighting back against a society that abuses their bodies and trivialises their minds.

Janet Horrocks

The Power and the Glory - Graham Greene.

The single man is on the run. He is the last Catholic priest in a country that has outlawed them. A state of religious persecution. Through the failings of this whiskey drinking priest, his failure to communicate, his failure to help and gain love from his illegitimate daughter, his failure to repent his sins this pathetic character, portrayed so

well by Graham Greene, evokes from the reader more than mere sympathy giving a common sense of humanity. We feel this is what real heroes are about, human weakness and the fight against it.

Only at the very end do we see in the death of the priest his success. The tragic ending revealing 'The Power and the Glory' of the priest's life. Rather than cry at his execution I was filled with the feeling of wonder and beauty of what he had left. A strangely happy ending even for those readers who do not believe.

Michael Newman

On the Black Hill - Brue Chatwin (Picador) £1.95

This was a book I had heard about as being highly recommended, a modern masterpiece and so on. I had been looking forward to reading it, and yet dreading to start it in case I just couldn't get into it. Now, having read the book, I think it does indeed deserve its high critical acclaim.

The novel covers the lifespan of twin Welsh border farmers from childhood until one died at 80 years of age. Chatwin is forced by the nature of his characters to write much about the countryside. He does so, successfully, writing both with the passion of the aesthete and an understanding of the farming community.

The book is a series of short chapters each covering events from some period of the twins' lives. The themes running constantly through the book are technology, pacifism, the nature of a small community and the bond between the twins.

A marvellous experience, and well worth reading.

Jerry Hasnip

The Life and Times of K - J M Coetzee (Secker & Warby) £7.95

J M Coetzee a highly acclaimed South African novelist, presents a serious and unconventional new book. It is the story of Michael K, who is mentally deficient, in his attempts to avoid a war that is being waged in S Africa. Much of Michael's behaviour is hard to understand. He tries to find a place away from the war, but it always catches up on him; part of his struggle is in the form of fasting, which is unconscious at first.

Towards the end of the book, the format is changed, and the story is told by the medical officer of a rehabilitation camp where Michael is held. The MO struggles to understand Michael's protest. He is frustrated by Michael's stance but eventually thinks he understands him, and is in awe of the protest.

Michael is just one civilian caught in the reality of war, from which he cannot escape. But he tries to live his life as he wants as much as is possible, even though this may be life on a very minimal basis. This is a book which frustrates the reader and has him in terror of the unpleasant social consequences which are unescapable in war.

Jerry Hasnip

A TOTAL WAY OF LIFE

Following on after the Christian Chaplaincies highly successful Contact Week these past few days, comes a RELIGIOUS WEEK organised by the non-Christian religious societies at College, from Monday 13 to Friday 17 February.

The Jewish Society are showing the films *Chariots of Fire* and *Cabaret* and will be providing refreshments with a Jewish taste.

The Baha'i Society are holding an informal discussion speaker meeting similar to their highly successful and highly entertaining event last year; and the Islamic Society are organising two meetings during the week, a free lunch and a video presentation, and will have a poster display in the JCR.

Those of us who do have a religious conviction would encourage everyone and particularly those of you who do not to consider the issue of religious beliefs seriously. Perhaps use the week, as well as the previous one, to answer some of the questions about the different groups.

Incidentally, Christian societies will still be holding their regular meetings.

Nigel Young

Social Clubs Committee Religious Societies Rep

The Origin of Man and the purpose of Existence

One of the most influential of all modern philosophers of science must certainly be Sir Karl Popper. Last term he came to Imperial College to speak about 'Quantum Mechanics'. However his most important thesis, and one central to all his work, is concerned with the methodology and development of science.

In his book 'The Structure of Scientific Revolutions'; Popper questions the way that science develops. We suffer revolutions in science, he says, because we blindly follow what is the main trend of the time—like moths gathering around a lamp in a darkened room—and ignore all other glimmers of ideas, until a new theory has the power to overthrow that already in existence. In the 'Logic of Scientific Discovery' he goes on to suggest that if we were more scientifically honest, we would not only express assumptions and theories as fully as possible, but state the conditions which must prevail before we are willing to relinquish them and accept others. Consequently, although science would be just as methodical, Popper suggests that the growth of scientific knowledge would be more creative, positive, and certainly less fraught, whilst losing none of its dynamic power. Logically, any such knowledge would then be seen as a contribution for a particular time, leaving our intellect and creative energy free to explore other avenues unafraid of change.

Popper's theories apply to religion just as they apply to science. The same revolution happens in religion when change

takes place, facing the same rejection and hostility as exists in the scientific and social world. How many such revolutions can we recall? Because we have resisted change so much that we could not see when it was necessary. How many times have we rejected ideas not because they are untrue but because we don't like the way they make our present values or methods out of date? And isn't this the basis of the continuing dissension between science and religion? Because we see them as competing rather than, branches of different knowledge, one being discovered and the other revealed. No one seems to realise, for example, that the acceptance of Darwin's theory does not make God redundant as far as creation is concerned.

The consequences of our failure to admit that a change is necessary, are very obvious in society today. No one seems to have a purpose to exist. Will we ultimately disintegrate, leaving no trace and no fruit? People want to protect our existence—although they can't often say why—or to dispense with it altogether because there is no point. Do we really have to reach the brink of our own destruction before we change?

The Imperial College Baha'i Society has organised a meeting on 'The Origin of Man and Purpose of Existence'. Both scientific and religious points of views will be presented. The meeting will be held on Thursday 16 Feb at 6:30pm in the Senior Common Room. 8th floor, Physics Building.

Islam and the Muslims

Any religion which does not demand anything of its followers or which leaves those who have entered it more or less where they were before they embraced it is an ineffective religion: a mere set of rituals which do not effect the conduct of living. ISLAM is not such a 'religion'—it is not a simple belief system or ideology or set of empty rituals, rather, IT IS A TOTAL WAY OF LIFE, a complete system governing all aspects of man's existence both individual and collective.

The meaning of the world 'Islam' is 'submission' and 'peace'. In the course of making an individual *muslim*—ie one who is in a state of Islam or peace through submission to the ONE TRUE GOD—Islam profoundly affects his thinking and behaviour. In fact there is no aspect of a person's life, individual or communal, which Islam does not touch and transform in keeping with its basic concept: that of the Lordship and Sovereignty of God and man's responsibility to Him. The first requirement of Islam is BELIEF, and its second is ACTION.

In this age of upheaval and uncertainty people everywhere are groping for something that can save humanity. Though this

is an era of the ultimate in material civilization and progress, in the realm of values and morals mankind is close to bankruptcy. Islam views these problems as being fundamentally of a SPIRITUAL nature: the result of man having lost sight of who he is, and who he is in relation to himself to others, and above all, to God, in whom, being itself originates. Islam is a view of the total reality encompassing the existence and attributes of the Creator, man's relation with Him, his role and purpose in this world, and the relationship between this life and the life of the Hereafter.

It may interest you to know that the followers of Islam constitute either the largest single religious community in the world today, or constitute the second largest according to other estimates: which range between 800m and 1 billion. It is a faith whose followers are found in every corner of the world and this universality stems from the fact that since there is one God and logically the Prophets and the revelations that they were given came from this one God: the message of Guidance to mankind is ONE, and the religion acceptable to God is ONE—Islam.

Tuesday	Islamic Society	1:00-2:00pm Free Lunch Botany Common Room.
	Jewish Society	Film Night & Refreshments. <i>Cabaret</i> & <i>Chariots of Fire</i> . 6:30pm Mech Eng 220. £1.
Thursday	Islamic Society	Video presentation 1:00-2:00pm Mech Eng 342.
	Baha'i Society	6:30-8:30pm Physics Common Room.
Regular Events	Cathsoc	Mass Tues 12:00pm Chem 231
	Methsoc	Wed & Thurs 12:30pm Chem Eng E400
	Christian Union	Fri 6:30pm Music Rm, 53 Princes Gate
	WLC	Sun 10:00am, Consort Gallery
	CU	Fri 6:30pm, Music Rm, 53 Princes Gate

Consoc

Think of Hyde Park scenery. Imagine the type of atmosphere that can only be created by a normal male/female ratio—so tragically lacking at most IC events. Of course the piano soloist in the background helps. Picture a menu of mouth-watering dishes, cooked to perfection—eat your heart out Mr Mooney. Dream of your choice of food being washed down by a glass of wine which is replenished before you say 'Margaret Thatcher'. Finish the evening off with coffee, and a hilarious talk by one of the wittiest Fleet Street columnists in the country. If you do not know what I am talking about, bad luck! You obviously missed our Annual Dinner.

Our next event is a talk by Peter Brooke. Many of you will know him as our constituency MP. He will be talking in his capacity as Under-Secretary of State for Education. As his responsibility is for higher education, his talk should be very interesting and relevant. It will be at 1:00pm on Thursday, Huxley 340.

Indus Soc

The papers for the election of members to the Indsoc Committee for next year will be posted on the noticeboard on the walkway (between the Sheffield Building and Elec Eng) on Friday 10 February.

The elections will take place on Friday 24 February and will coincide with the annual general meeting to be held on that day at 12:45pm in Chem Eng LT4.

Hoverclub

After a quite successful afternoon out on the Thames earlier this term, we feel that it is time we unleashed the homicidal drivers amongst us on the world again. Consequently, another visit to the Thames has been arranged for the 15th of this month. If anybody is interested in this or in building a new hovercraft, for which we now have most of the parts, then come along to our next meeting in Southside Upper Lounge on Tuesday at 12:40.



Click....transmission on.

The batteries are running out, not much time.....

I found it, the legendary *Bic Pen Planet*. I was writing a letter to mother when time slipped sideways and swallowed my pen. I felt it being pulled from my hand through a worm hole in space time, so I gripped tightly and ended up here, on this strangest of planets near the Galaxy's Core. Bic pens have evolved to fill every evolutionary niche—huge finned bic pens gliding through the inky, silent ocean, sabre tooth bic pens stalking through the steamy jungles, ball point tipped taloned eagles soaring through the turbulent air, plastic wings glinting in the sun. It is from this exile that I must tell you about *PICO-CON*, SF Soc's mini convention on Sat 18 of Feb, *Flesh Gordon*, 21 of Feb, featuring thousands of.....

Debsoc

Northern Ireland remains Britain's biggest domestic problem. After nearly 15 years of violence and numerous attempts at political solutions, the problem remains. Clive Soley, Labour MP for Hammersmith will argue in favour of a United Ireland as the only solution. Conservative, Sir John Biggs-Davison will oppose him. Can Britain renege on the commitment made by Ted Heath to Ulster protestants? Is a United Ireland a solution at all? On Tuesday 14 February, 1:00pm in Chem Eng LT2 the matter will be debated. As ever, everyone is welcome and speeches and questions from the floor are encouraged.



Well Tuesday certainly saw a lot of intoxicated people in Beit Quad, after Field Cup. I hope everyone's recovered—though having seen some of you I doubt it.

On Wednesday 15 Feb the 135 Club is organising a 'mid term' piss up, as all you lucky second years who only have three year courses are half way through your stay here. Meet at the Orange Tree, 45 Kew Rd, Richmond. Go to Richmond tube and turn right outside the tube—this is Kew Rd.

On Thursday, 16 Feb, there is the 'Old Centralians' second year party for which there are still a few tickets left—only £1 for a supper with wine—see your soc rep.

Finally we are still running the table football competition so come and sign your name up in the Guilds Office.

A Fair Member - That Would Be Delightful

Well, it's February again and IC OPSOC members are frantically trying to sell you tickets to see this year's mega-production of *Iolanthe* by Bill Gilbert and Art Sullivan.

Before your mind starts bursting with mental images of elephantine women with enormous wobbly bits screaming curses in foreign languages let me tell you something about the show.

Iolanthe represents something of a break from OPSOC traditions being less of an 'operetta' style production and more of a 'musical'. The story has been set in a timeless period which means that the costumes and set suggest mood and characters rather than the usual Victorian image. Thus Strephon can wear a 'Save the Whale' T-shirt while the Lord Chancellor wears traditional robes and wig. The plot hinges around Phyllis, a ward of court, and the men who want to marry her (the entire House of Lords, the Lord Chancellor and Strephon an Arcadian CND supporter). Strephon, who is half fairy, is aided in his efforts by the ladies chorus dressed in diaphanous little numbers which are too small for comfort. All this calls for considerably more dance routines than

OPSOC are used to but with plenty of rehearsals it should look good.

The libretto is one of Gilbert's finest with the biting satire about the usefulness of the House of Lords still as relevant today as in the late 19th Century. Sullivan's music sounds almost like Verdi at the dramatic points and never fails to produce a good tune. Some of the most popular G&S music comes from *Iolanthe*, such as The Peers Chorus (Bow, Bow, Ye lower middle classes), Blue Blood, When Britain really ruled the waves, The Nightmare Song and the Trio, Faint Heart Never Won Fair Lady.

If you've never seen a Gilbert and Sullivan show, give this one a try (people's misconceptions can be quite considerable). If you've never seen an OPSOC show this may be your best opportunity. If you have seen an OPSOC show, this may be different but we hope you'll enjoy it.

Performances are at 7:30pm in the Union Concert Hall from Tuesday 14 February until Saturday 18 February. Tickets are on sale from OPSOC members, IC Union Office, the Haldane Library or Level 2 of the Sheffield Building at lunch times, price £1.50 students or £2.00.

PS: If you have ever considered joining the society (particularly if you are a man) then come backstage during the interval or see us in the bar afterwards when we will be only too pleased to tell you something about the society.



Stage Crew finishing off a tree for the production on Tuesday.

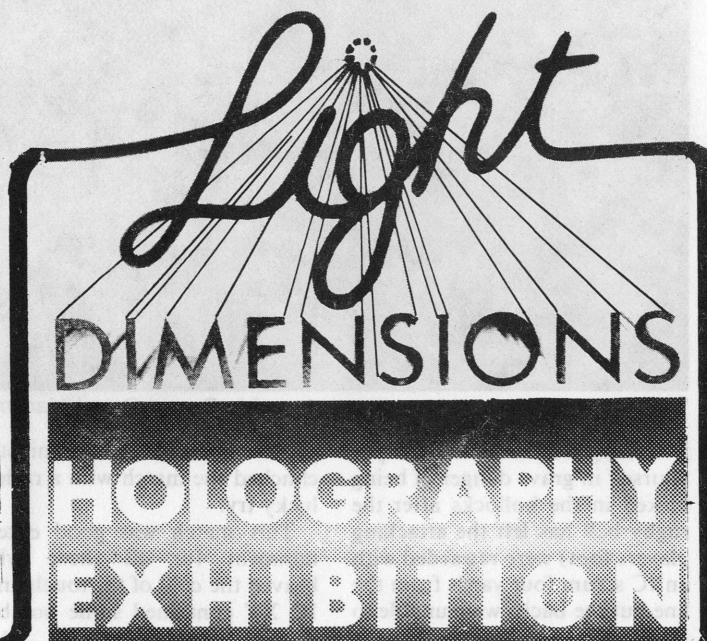
The exhibition begins with a potted history of Holography and its development from its invention in 1948 to the present day with examples of the early holograms. There is then a simple yet clear explanation of holography and the way in which different types of holograms are produced. The most interesting part of the exhibition (and the part most people come to see) is the holographic art gallery. There is a great deal of resistance within the art world to accepting holograms as an art form. The argument is that creative control in the production of a hologram is limited, any spectacular results are obtained through accident rather than design. Holographic art is as yet in its infancy the works on display at the exhibition though fascinating and spectacular could not really be described as masterpieces. However the works do illustrate the potential of holographic art, making use of colour, form and movement simultaneously in a manner which has not been possible with any other medium.

Eves Crystal I and II by **Linda Law** both display geometric crystalline structures, bathed in an intense, almost hypnotic green laser light.

Dennis Gabor, who lectured at Imperial, discovered holography in 1948. As it required an intense, monochromatic light source, it lay dormant until 1960 and the invention of the laser.

You can marvel at just how much holography has come on since then if you visit the Light Dimensions Exhibition in the Science Museum.

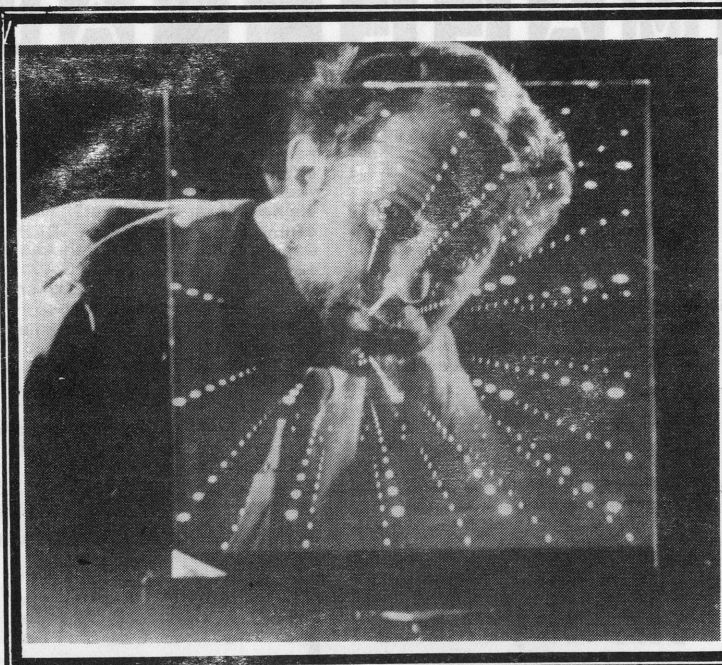
Also, on Level 4, Sherfield, there is an exhibition of the life and work of Dennis Gabor, who died in 1979.



A hologram differs somewhat from a picture or slide in that each point in the hologram contains the whole image. If you cut a piece off a hologram, you can still see the whole image—only the definition is reduced. This makes the hologram a very useful medium for storing data, such as text, compared to microfilm, as minor damage does not cause any loss of information.

Interferometry

At present, one of the most important applications is interferometry. A double holographic exposure of the object while stressed and unstressed shows light and dark bands which cluster together near potential fractures. The technique has been applied to nuclear fuel rods, loudspeaker cones, the living human body, car tyres and a host of engineering structures. It is even possible to see shock waves in the air due to the passage of high velocity bullets. Of course, for such applications, very fast exposures are needed, but lasers can supply pulses shorter than a picosecond (a million-millionth of a second) so there is no problem.



Art and Restoration

In the Soviet Union, holograms are taken of priceless art treasures, so that Soviet citizens from Kiev to Vladivostok can visit travelling hologram shows of their national heritage. When restoring paintings, it is useful to know if any areas of paint are likely to chip and fall off. By taking a double exposure and warming the painting up by a

few degrees between exposures, the weak spots in the paint can be easily and safely identified.

Advertising

Holograms can be made to 'come out' of the plane of the holographic plate and the effect is so convincing that people are willing to make fools of themselves walking around the image and trying to touch it.

One of the problems with displaying holograms is that unless your eye is within the correct angle of view you cannot see the image. Tucked away in the corner of the exhibition are a series of three holograms of the crucifixion of Christ which uses this drawback very effectively. The portraits seemingly jump out at you, one after another as you pass them.

12 Milliwatt boogie by **Rudie Barkhout** is a very ingenious white light transmission hologram. The holographic plate has had several images exposed to different parts of it such that the image changes as your eye moves across the plate, providing a shifting kaleidoscope of colour and shape. The artist Rudie Berkhout says about his work that he regards the viewer as a needle of a record player playing a hologram.

There are over 100 spectacular holograms by artists from all over the world. The exhibition is open seven days a week until 29 April. You would be better to go during a Weekday as the exhibition is jam packed during weekends. It is excellent value at £1 for students (£1.75 otherwise) and is a must for anyone interested in holography.

This is very useful for advertising and also for displaying objects temporarily, for instance at exhibitions, when the objects are too large or fragile to transport easily.

Portraits

Holographic portraiture is very successful and uncannily lifelike. There were initial problems due to the fact that a living subject has blood moving under the skin and this motion destroys the image. Ultrashort laser pulses overcame this. Also, enlarged pupils due to sitting in the dark are prevented by shining a bright light at the subject before the exposure.

Optics

There are an enormous number of applications in the field of optics, for instance, head-up displays for pilots attract a lot of military funding. Also, optical elements such as lenses can be made from holograms. (There is even some hope of making holographic contact lenses.) Dr Robin Smith of the physics department designs holographic microscope objectives and there is much activity in holography in the department's Coherent Optics group.

APPLICATIONS

IC Rugby fall in Semi Final

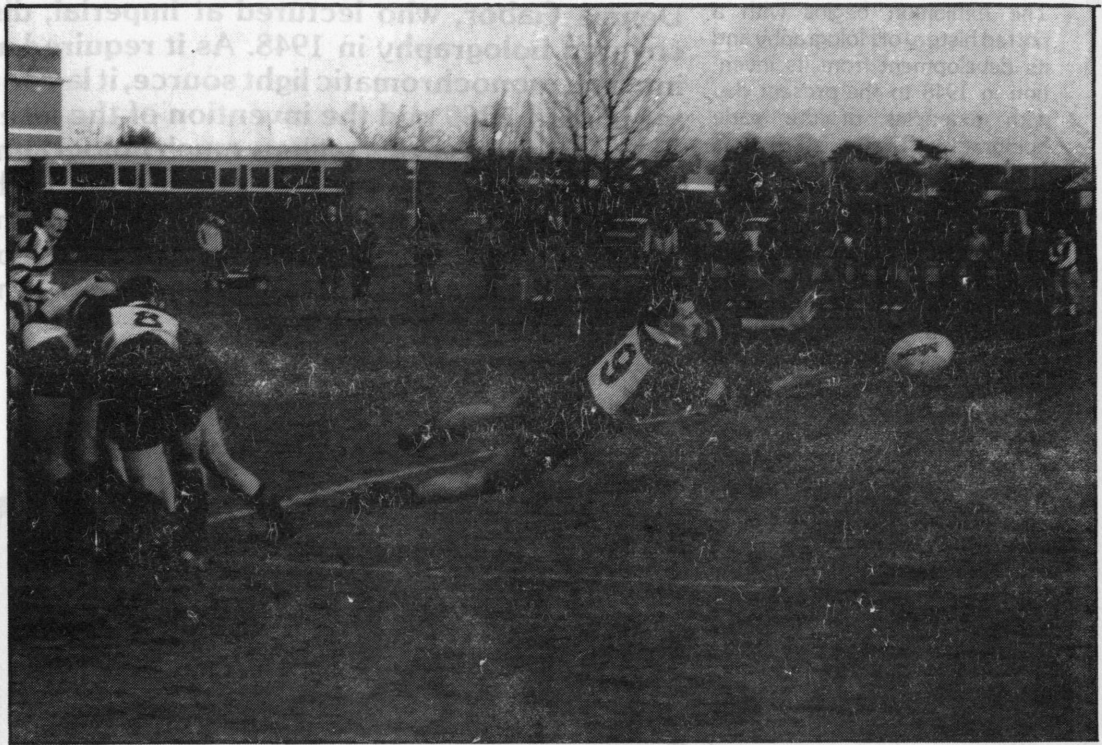
IC 1st XV were beaten 0-11 by a well drilled side from Westminster Hospital Medical School at Harlington on Wednesday. The win earned Westminster a place in the final of the University of London's Gutteridge Cup Final.

Captain Dave McGee's team, urged on by a multitude of loyal supporters, maintained constant pressure throughout the match with grim determination.

But it was the mistakes and missed chances that cost IC the match. It started off well balanced but IC gave away a penalty after a somewhat suspect decision.

In the scrum and lineouts which were frequent Westminster dominated with their well rehearsed set moves, IC finding it hard at times to secure their own balls from the scrum.

Hopes returned to the now cold team of supporters ten minutes from the end. At least



The IC scrumhalf does his Bruce Groobelar impersonation. Photo: The Swan Team

five chargedowns (when you put yourself in grave danger of being kicked in the bollocks after the rugby ball has left the attacking players foot) were rewarded with an IC scrum four yards from the line but the backs were unable to

get the try. Finally Westminster clinched the match with a rather lucky try.

This match was good entertainment for all those who braved the cold of the touch line. IC XV contained some notable

performances, and their sheer brutality and determination might have frightened the victors, but they would put the fear of God into the Duke of Wellington.

Matt Fawcett

S M A L L A D S

FOR SALE

- **Electric typewriter**, golfball type with error correcting facility. Types in Elite or Pica. Bargain at £99. Contact Paul Gardiner, MRE2.
- **1 ladies bike** 'Traveller', plus, 1 ladies collapsable bike 'Jayrider'. £20 each. Mrs B Brady, 50 Lancaster Court, SW6, 01-736 1914 (eves).
- **Crumar Roady electronic piano**, under guarantee, as new, 5 voices. Includes leads, case and pedal. Price £180ono. Contact N Stevenson, Phys 2.
- **New single bed**, cost £54, wanted £25. Phone 603 8659 between 5:30 and 7:30 ask for Valerie.
- **La France en Direct Vol 2**, £2.20; Solid State Theory in Metallurgy, Wilkes, £5.50; Electrical Technology, E Hughes, 20p; Mopsoc Bookstall, 1pm Mondays (Physics level 2 near letter-racks).

WANTED

- **4 Marillion tickets** for March 10/11 to swop for March 9. Contact Tony Clutcliffe, Chem Eng 1.
- **Guzzi V50 Mk2 handbook/workshop manual**. Will borrow, hire or buy as necessary. See R Shammas, Elec Eng 3.
- **Bassist and drummer** to form band with incredibly talented lead guitarist. Contact M J Hornby, Civ Eng 2 time waste's preferred.

ANNOUNCEMENTS

- **Civ Eng Soc 'Valentine Day' Buffet**. Why not massacre meal outside Rm 201 at 12:30pm on 14 Feb. Food cheap, drinks cheaper.
- **Lost during Field Cup**, one head—contact Zero the Hero, Civ Eng 1.
- **You've borrowed your neighbours furniture**, and you are waiting for your potential father-in-law to arrive. What can go wrong? Find out in Peter Shaffer's 'Black Comedy' Wed and Thurs 22 and 23 Feb.

- **2 scarves lost** at 71 Cromwell Road last Saturday. For return contact M Viney, Life Sci 1.
- **What happens when the lights go out** on a possible romance—literally. Peter Shaffer's hilarious 'Black Comedy' is on Wed and Thurs, 22 and 23 Feb.
- **ICCCAG stands for Imperial College Community Action Group**. What do you stand for?

PERSONALS

- **Happy birthday Jez**.
- **Happy birthday Nige**, a man at last! Hope you didn't get a touch too much from DSC last night. Looking forward to the MP test?
- **Chip-pan Eddie lives**, but will he... again.
- **How much food can a Stud up-chuck**. If a Stud coup up-chuck food?
- **Would YOU! Swim an ocean? Drive a tank? Stand on your hands? Tog loves Tiggy**.
- **IC Civ Eng III 3**. UC Civies 1 The unbeatables are beaten against incredible odds. Today UC, tomorrow the world!
- **The Hairy Hampshire Hobbit** says Hi! to Gollum the thing from Bradford.
- **What is three million strong**, brown and furry and goes red at the flick of a switch? —A herd of lemmings in a liquidiser.
- **Do you suffer Civ Eng 1 syndrome?** Come to occupational therapy in the JCR at 11:30 and lunch times.
- **What's the yellow mean machine** cruising Evelyn Gdns? —It's bassman in the bassmobile.
- **Dear Cuddles** (Physics 3) you will shortly come under fire from Captain Lockheed and the Starfighters unless you contact Base.
- **Walnut wears pink underwear**.
- **Fed up with Fame?** Seeking anonymity? Then try getting a club publicised in FELIX and no one will hear from you again.

- **Deterding**—you are a lucky man.
- **Bumflap**—you have been warned—your time is running out.
- **Piglet**: Ye gods! Not the red pen! Aaargh!
- **Kanga**—Thanks for being Mum. Love you lots. Tigger.
- **Is Kathy over the Hill yet?**
- **Duncan Bryant**—Happy Birthday Danuta, Kathy, Helen, Leigh-Ann and everybody in the Weetabix Club.
- **Can I service La Car?** 'ML, when will we consummate our friendship'.
- **It's 12** but I don't use it as a rule, Di, B.
- **The Invisible Man**: Sorry for delay, but Mike Thompson CHS PT killer sends regards via the Poynton Puzzler.
- **Civ Eng 2** would like to inform Dr Gent that they are not here to attend interviews.
- **Anyone wishing to found a Cow Protection Society** should contact

- Arnold Missingbottom, Chem Eng 2. This is not linked in any way with VegSoc or WIST.
- **Lost**: one Huxley building. If found please inform the Civ Eng staff.
- **John would like it to be known** that his little friend is well on the way to recovery, and thanks his friends for their concern.
- **Juliet of Southwell**—how much do you charge for flying lessons?
- **How do you sleep** with loud music blaring from next door—a manic depressant.
- **Happy Valentine** Danuta from the shallow man, alias sucker.
- **Will you be mine** Patrick—from Gez.
- **Lizard of Linstead** says 'will you be mine' to the Python of W12.
- **Is Kanga really a mum**, and who by? Is it Tog?
- **What's green and hairy** and called Bristow on Sunday nights?...a gooseberry.

ICConservative Society

Peter Brooke MP
(Undersecretary of state
for Education)

speaks on

'Higher Education'

1pm Thurs Feb 16 Huxley 340

friday

1230h JCR Socialist Soc bookstall. Books, info and Campaign Coffee. F1230h

1230h JCR BUNAC. Info on summer working vacations in the USA—air fares paid, and it looks good on your CV! F1230h

1245h meet Beit Arch Vegsoc Lunch at RCA. F1245h

1255h Union Concert Hall Islamic Society Friday prayers. F1255h

RCSU Noticeboards

Papers up for RCS President; Vice President, Hon Sec, HJT and AAO. If you want to stand for election see the present holders of the post for information. Hustings UGM 23 Feb; Voting 27 Feb; Results UGM 28 Feb.

1815h 53 Princes Gat Opp Mech Eng, IC Christian Union present Sandy Millar from MTB. F1815h

2000-2100h IC Radio Pete Coleman presents 'Viewpoint'. F2000h

saturday

1230h The Log Cabin (next door to Northfields tube station) **Action Venture Club** for physically and mentally handicapped and deprived children. Travelling expenses paid by ICCAG. S1230h

2000h Lower Refec IC Ents Lounge Lizards Party with band every week on stage 9pm. Open till 2am. S2000h

sunday

0800-1200h IC Radio Wake up to the 'Voice of Blackburn' himself, Andy Cave. Sn0800h

0930h meet Beit Arch Cycling Club fun run. Pace suitable for beginners. If your bike is in good condition come along with some money for lunch. Sn0930h

1000h Consort Gallery, Sheffield WLC Communion Service. Coffee will be served after the service. Sn1000h

1000h Nat Hist Soc day out to Syon Park Butterfly Farm near Kew. Meet Beit Arch

monday

1230h above Southside Bar Hang Gliding Club meeting. M1230h

1245h meet Beit Arch Vegsoc lunch at RCA. M1245h

1245h Common Room Yacht Club meeting for those going on weekend 17-19 Feb. Places available! M1245h Bot/Zoo

1930h JCR Intermediate Dance Class. 50p. M1930h

1930h Wellsoc event: Chancellor Garth Moore of Corpus Christi College Cambridge (no hissing please), looks deeply into the questions of Christianity and ESO. M1930h Elec Eng Rm 408

1930h Real Ale society meeting. M1930h Union Crush Bar

2000-2100h IC Radio Beatles Hour. M2000h

tuesday

1230h Room 231 Chemistry Catholic mass and lunch. All welcome. T1230h

1230h Union Upper Lounge Audio Soc Record Club. T1230h

1230h Rm 606 Elec Eng Pimlico Connection 'Pay As You Eat' lunch. T1230h

1240h Hoverclub meeting. T1240h Southside Upper Lounge

1300h Upper Lounge Southside Riding Club meeting. T1300h

1300h Southside Upper Lounge Boardsailing Club meeting. T1300h

1300h Debating Society debate: Northern Ireland remains Britain's greatest domestic problem. Clive Soley, MP for Hammersmith proposes that a T1300h Chem Eng LT2

United Ireland is the only solution. Sir John Biggs-Davison opposes. Speeches and questions from the floor welcome.

1330h The Strangers next door: 2. The Royal Albert Hall by Dr Cameron McNicol. T1330h Read Theatre

1330h The Transformation of Science 2. The Collectivation of Science by Prof J M Ziman FRS. T1330h Pippard Theatre

1730h Brown Committee Room (top floor Union Building) **Amnesty International** meeting. T1730h

1800h Wine tasting society: burgundy tasting. Come and taste the predominantly red wines from Burgundy. Tickets still available (but only just) for Annual Dinner. T1800h SCR Beit Bldg

1830h Union Gym Judo Practice. Membership £2.25; Practice fee 50p. Good punch-up for anyone from beginner to black belt. T1830h

1830h IC Jewish Society film night: Cabaret followed by Chariots of Fire. T1830h Mech Eng 220

1930h JCR Beginners Dance class. T1930h

2100-2300h IC Radio 'Aids Show' with Aidan Dye, including new Top 40 at 2130h. T2100h

1300h Senior Common Room War Games meeting. W1300h

1310h basement 9 Princes Gdns Islamic Soc Quranic Circle. W1310h

1330h meet Beit Arch Cycling Club training run (30-40 miles). W1330h

1400h Rm 401 RSM Micro-computer club. Membership £2. W1400h

1430h Dramsoc Storeroom Dramsoc Workshop. W1430h

1800h The Orange Tree Guilds 135 Club 'Mid Term Piss Up'. Turn right outside Richmond tube station. W1800h

1930h JCR Beginners Dance Class W1930h

2300h-0100h IC Radio's own 'One Man Bay of Pigs' with Martin Smith.



wednesday

1235h ICCAG Office (top of Union Building) **Jobbersquad.** Use your talent for others. W1235h

1245h Mech Eng Foyer ICCAG talking to and helping geriatric patients at St Pancras Hospital. W1245h

1245h Upper Lounge 3W1 speaker meeting: a speaker from the Phillipine Support Group will talk about the effect of free trade zones in the Phillipines. W1245h Union

1300h SCR Wargames Club hack and slag meeting. Sn1300h

1800h Catholic Mass followed by bar supper and talk. Sn1800h More Hse 53 Cromwell Rd

1900h RCSU social gathering to celebrate Theta's 9th birthday as the unviolated mascot of RCSU. Sn1900h Union Bar

2100-2300h IC Radio Russell Hickman 'A unique blend of noise'. Sn2100h

thursday

1245h

UN Soc film and speaker from Campaign Against Arms Trade. Film 'Arming the World' an introduction to the international arms trade and alternatives.

1300h Southside Upper Lounge **Balloon Club**.

1300h Green Committee Room **SF Soc library meeting**.

1300h

Conservative Society talk with Peter Brooke (Under-Secretary of State for Education) talking on government higher education policy.

1300h

Jazz Club membership entitling you to use Jazz Room for practise and SCAB PA system available.

1330h

Music Room
53 Princes Gate
Lunch hour concert: David Ward (piano).

1730h Aero 254 **Gliding Club meeting**.

1830h

Baha'i Soc meeting on the topic 'The Origin of Man, and the Purpose of Existence' with distinguished scientific and religious speakers presenting their points of view on the topic.

1900h Union Gym **Judo Practice**. Practice fee 50p.

2000-2100h IC Radio **Aidan Kirkpatrick's Old Record Club**.

2130h

Soup Run. All welcome, especially if you haven't been before.

Th1330h

Music Room
53 Princes Gate
Lunch hour concert: David Ward (piano).

Th1730h

1730h Aero 254 **Gliding Club meeting**.

Th1830h

Comm Rm, Lev 8
Physics Bldg

Th1900h

1900h Union Gym **Judo Practice**. Practice fee 50p.

Th2000h

2000-2100h IC Radio **Aidan Kirkpatrick's Old Record Club**.

Th2130h

Falmouth/Keogh
Kitchens
Soup Run. All welcome, especially if you haven't been before.

coming soon

Fri 16 Feb 1730h Beit Arch **S&G weekend in Gower**. Names asap. **Fri 17 Feb** coaches leave 1900h from **RSM Chislehurst Caves Underground Valentines Disco**. Organised by Min & Met Soc
£3.00 inc transport.

VALENTINES UNDERGROUND DISCO

SUBSIDISED BARBECUE & LICENSED BAR

THREE COACHES ONLY WILL LEAVE RSM AT 7.00 pm SO HURRY TO GET A PLACE
Tickets £3.00 (INCLUDES 10% OF TRAVEL)



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WEDNESDAY,
15th February
2-8pm

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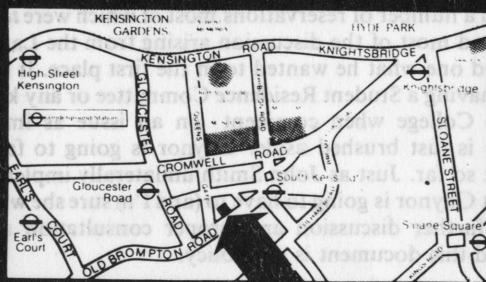
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Residence Policy

College Secretary Mr John Smith emphasised at the time that the purpose of the Lauwreys report was merely to provide a *focus* for discussion and debate over the future of student residences and that any policy would only be implemented after comments were received from those concerned. There were a number of serious reservations about the report voiced not only by the students union but the wardens and other people concerned with student residence as well. Mr Smith has ignored most of the reservations voiced by the students union at the time and gone right ahead and implemented the policy.

The policy creates the post of a Superwarden (called a Managing Surveyor (Residence)) who will be responsible for maintenance and cleaning and will be the direct superior to the Hall housekeepers.

This will make the role of Southside Wardens (who do little enough as it is) superfluous. The managing surveyor and the Student Services Officer will not be accountable to the Student Residence Committee; which has student representation, but to the College Secretary directly. Another decision which goes totally against what the Union has been pressing for concerns the issue of Southside Wardens. Despite the fact that two years ago the Student Residence Committee felt that the number of Wardens in the Southside Halls of Residence should be reduced from four to two. Mr Smith has decided he knows better and now all four Penthouse flats will be occupied by staff wardens. The reason given in the policy document is laughable:

'...opportunities for undergraduates in particular to meet academic staff have diminished. It is therefore proposed to reinstate the two Southside flats for academic staff wardens.'

What a load of bollocks! The real reason of course is that the Wardens hate having students as neighbours.

A draft of the policy was sent to Gaynor Lewis last week. She was asked for a response within three days. This did not leave her time to consult student opinion adequately or to formulate a well thought out response. Nevertheless she expressed a number of reservations most of which were *totally ignored*. Mr Smith has ignored most of the discussion arising from the Lauwreys report and gone ahead and one what he wanted to in the first place. It seems as if there is little point in having a Student Residence Committee or any kind of student representation in College when comment on an issue as important to students as residence is just brushed aside. Gaynor is going to face her toughest test as President so far. Just as John Smith unilaterally implemented residence policy overnight Gaynor is going to have to (and I'm sure she will) tell College that until there is further discussion and proper consultation as far as the Union is concerned this document is **not** policy.

Education Cuts

Peter Brooke will be speaking at Imperial College next Thursday lunch time. Mr Brooke is not only our constituency MP, he is also the Minister responsible for Higher Education. He ultimately decides the amount you get for your grant, the level of government funding universities receive and the number of students able to enter higher education in future years. This man directly affects the life style of students and the standard of living so it is important that IC students go to the meeting and make their opinion known. The talk will be at 1:00pm in Huxley 340 on Thursday 16 Feb.

Free Love In FELIX

Speed your love to me, or anyone else you fancy, via the Valentine's edition of FELIX small ads next Friday. Only three days late but its better to have been loved and late than never been loved at all.

Pallab Ghosh



ALYSSES

CUL Invade Primelia College

I was down at Primelia College last Thursday, and went to a lecture in the morning. Midway through it, a group from CUL bombarded us with flour and eggs. They left after about half a minute, and while we were busy making pancakes from the resulting mess, they went off to steal some shields.

Four of them, Alan, Barry, Chris and Dave, reached the Mech Eng department, and between them took sixteen shields. No two took the same number, Dave taking the most, Chris next, then Barry and finally Alan who took least of all. As they were escaping, they were stopped by a policeman who asked them in turn if they knew how many each of the other three had taken, given that they knew how many they had themselves.

'No,' said Alan.

'No,' said Barry.

'No,' said Chris.

'No,' said Dave.

'No,' said Alan

'No,' said Barry.

Assuming that each of them had made all possible deductions before they spoke and that Chris had two more shields than Barry, how many did each of them have?

Good luck, everyone.

Solutions, comments, criticisms to me at the FELIX Office by 1:00pm on Wednesday please. £5 from Mend-a-Bike for the randomly selected winner.

Last Week's Solution

The first two figures of each number give the position of the letter in the alphabet, ie A=01, B=02, etc. The second two figures give the position of that letter in the complete solution (ie there are fifty-one letters and spaces in the solution).

Therefore, the message reads 'The mole had been working very hard all the morning,' which is the first line from Kenneth Grahame's *Wind in the Willows*. Of thirteen solutions, Neil Thornton of Maths 1 was the randomly selected winner, and can collect his cheque for £5 from the FELIX Office after 1:30pm on Monday.

Thanks, Perola.

If anyone has any ideas for puzzles, would they please put them in my box in the FELIX Office along with the solution and a pseudonym.

Many people seem to be under the misapprehension that the weekly £5 prize entitles them to £5 off purchases or servicing at Mend-a-Bike. Although they do give discounts to IC students, Mend-a-Bike donate £5 cash to the winner of the puzzle.

Cheques for Barry Franklin, Robert Macrae and P M Fisher are still awaiting collection.