

FELIX

The Newspaper of
Imperial College Union



Many of you will be expecting the last FELIX editorial to be a lengthy tirade against Carl, Dave and Quentin. It's not going to be. One of the things that you learn as FELIX Editor is that arguments in the Union are soon forgotten. The turnover of students at any university is such that within eighteen months Union arguments are forgotten. I would imagine that in two years few, if any, students will remember much about this year. This year has been one of significant change for Imperial College, so to concentrate on the Union would be profoundly wrong.

aims of universities.

Students have been hit by the Government's short sighted attempts to cut education. Grants for next year have only been raised by 2% in cash terms. Students have been told that they may lose their rights to claim certain benefits. The government appears to have decided that students are easy targets. A fair proportion of tory voters believe that students are lazy dossers who are trying to avoid hard work. The effect of the grants cuts is very obvious. Many current students seem to come from middle and upper class families. Most current students have

students' lives easier. It is still the case, though, that some departments ignore their students interests. For example Life Sci still organise lab session during the College's official lunchbreak. This means that Life Sci students have problems if they want to sit on certain Union committee. They have to be marked as absent from lab if they want to attend.

The Union has, as usual, had problems representing students on College committees. Students will always have problems when they have to negotiate with professional administrators. Student representatives have to

College that the Union isn't worth defending.

This year there have been several significant changes in the college administration. The new Rector Prof Ash seems keen to take an interest in Student affairs. He has gone to Dramsoc shows and Rag Fete. Unfortunately he seems to be quite good at irritating some of his staff. Rob Northey also seems to be quite good at irritating people in his new job as Refectory Manager. It is difficult to know whether these two people have annoyed the right people. In any organisation there will be some people who



editorial

In the long term the most significant thing to happen to the College was the UGC's decision to cut the College's funding yet again. The College has suffered cuts in funding in real terms for a number of years. The cuts are, causing the College serious problems. Research at the College is being cut because there is no money for equipment etc. The College is unable to recruit the best academics because it can't afford to pay them properly and in many cases the College is unable to replace academics because it is having to cut staff. The recent statements by the Department of Education and Science suggests that next year the Government may not make any cuts. While this is good news it won't prevent severe damage being done to higher education. Universities need to be properly funded so that British industry has the flow of ideas, and graduates it need. The majority of the money must come from the Government. Industrial support for universities normally ties research and courses to specific short term needs of industry. It is up to the Government to support the longer term needs of industry by supporting the longer term

large overdrafts.

One of the disappointing aspects of the Union this year has been its failure to get involved in campaigns against Government cuts. External Affairs Officer Grenville Manuel has tried hard to organise campaigns yet apathy on the part of the majority of Union Officers (including sabbaticals) has meant that IC as usual has hardly been represented on cuts campaigns. Indeed Imperial College Union seems determined to do as much harm as it possibly can to the public's image of the student by continuing to sell a Rag Mag that has been slated in the press, by organising events like Morphy Day etc. I really wonder if the majority of students care about cuts because their behaviour suggests they don't. Perhaps they feel that they will have left College by the time cuts campaigns have any effect.

College has again shown a sort of schizophrenia when dealing with students. At times the College has shown genuine concern about students interest. The Undergraduate Studies Committee has taken a genuine interests in the problems faced by students. The report produced by the committee is an attempt to reduce failure rates and make

learn in a few months skills which College administrators have had years to learn. This year students reps have been hampered by a breakdown in communications within the Union. Some officers have virtually stopped talking to others. Union officers have had to go to College committees with little background knowledge on the issues to be discussed because they hadn't talked to the right people. Carl, Dave and Quentin have had their successes and failures. In many respects they haven't been any worse than other sabbaticals. The thing that has marked this years as being the worst in a long time is the split within the Union. Carl, Dave and Quentin must take the blame for this.

More generally the Union has faced up well to the problems caused by further cuts to its funding. The increases in trading activity has been very successful. UFC has been realistic about the areas that should be cut. The union has been successful at trading and all those involved should be congratulated. The Union has, though, lost space with the FELIX Office being shunted in to a hole behind the Lounge. It's just a pity that sometimes one gets the impression that there is so much apathy round the

are dead wood and new administrators can often improve things by annoying these people and getting them to leave. The problems come when the new administrator irritates efficient colleagues. Mr Northey has made some improvements though.

Don Ferguson has been the success of the year. He has had severe problems at Student Services but he has had shown a genuine interest in student Welfare. I just hope he doesn't get depressed about the lack of support there seems to be at times from other parts of the College.

Personally this year has been enjoyable although at times there have been some frustration. There is a full credit list on the opposite page and like to thank all the people mentioned and anyone else who has in any way helped me. See you all next year.

It difficult to know how to thank people who've put amazing amounts of works into FELIX. People have made real sacrifices for FELIX. All I can say is that I really appreciate your efforts. I hope that you all still regard me as a friend after a year in which I've nagged you all at times. May I especially thank all the Union's permanent staff who've managed to put up with me despite all my faults.

LETTERS

Try 11

Helpful Pete

Dear Hugh,
I would like to take this opportunity to thank Pete Wilson for all the hard work he has put in as the Union Welfare Officer this year. He has been conscientious on College Committees, voicing student opinions and has been enthusiastic in his support to Student Welfare and myself, as the College Welfare Adviser. I hope next years Welfare Officer is as helpful and understanding.
Lesley Gillingham
Welfare Adviser Student Services

Dear Hugh,
With the advent of the World Cup, a lot of people have been invited to 'climb into the Commentary Position' during the heat of a match. Could readers enlighten me as to whether this is similar to the Missionary Position as I cannot find it anywhere in *The Joy of Sex*.
Chris Edwards

Monochrome Set

Dear Hugh,
So Recreational Clubs Committee (RCC) Chairman Tim Palmer has proposed a motion for Joint Council that Athletics half-colours should be awarded to students who compete for Imperial as a member of clubs that are outside Athletics Clubs Committee.

This alone disturbs me. However, I feel the intention is not to stop there; get a foot in the door and push for full-colours next time!

I am further disturbed at the timing of such a motion. I am ignorant of the frequency of major Union meetings, but surely, doesn't Joint Council sit at other times of the year when such motions can be considered with both sides at their strongest; I get impression this motion is being supplied under the door.

This is not, however, to say that RCC Club members should not receive recognition for their achievements.

Athletics Clubs Committee quite rightly award **Athletics** colours for excellence and so surely shouldn't **Recreational Clubs** Committee award half and **FULL Recreational** colours as well?

If RCC Clubs are not satisfied with this and still demand their Athletics Colours I suggest that they

join ACC since there is surely a logical implication that Athletics Clubs receive Athletics Colours. Hence, presumably RCC would become a sub-committee of ACC. I am sure all would be happy with that!

I suspect a degree of bitching in this matter and so my final suggestion is to abandon colours altogether. This would achieve nothing other than to appease those who do not like people being seen **in their eyes** to be put on a higher platform. On the negative side, much of the excellence in Sports would no longer be recognised and the only way the Union has of genuinely recognising those who bring credit upon the College would be lost.

So give the club members their deserved and appropriate colours and let us have done with this so that all the clubs can get on and do what they do best.

John Pope
President Elect
University of London-Sports Council

THE CREDITS

This year's FELIX has been a team effort and I'd like to thank everyone who has helped in some way. Some of the students who have worked on FELIX this year have put in an astonishing amount of work. I would particularly like to thank the Print Unit permanent staff, Tony Churchill and

Rosemary Hoskings, for the professional way they dealt with my moods, eccentricities and amateurism. Other people who have worked on FELIX include Dave Jones, Chris Edwards, J Martin Taylor, Richard Ellis, Bill Goodwin, Sunny Bains, Jane Spiegel, Jim Clayden, Debbie

Wilkes, Dave Rowe, John Burgess, Sarah Kirk, Simon Lewis, Richard Smith, Charlie Troup, Judith Hackney, Pete Hobbs, Nige Atkinson, Sean MacRae, Dave Griffiths, Mark Cottle, Alan Rose, Mark Hunter, Chris Stapleton, Aaron Kotcheff, Oligo, Tony Spencer, Pete Wilson, Dave Kingston, Quentin Fontana, Carl Burgess, Jen Hardy-Smith, Dave Thomas, Kathy Tait, Pat Baker, all the staff in Norms (especially Julie), Kamala Sen, the woman in biology who allowed me to use her bunsen burner,

Andy Vickers, Tracey Spalding, Mike Stone, Ian Thomas, Paul Walton, Simon Katalungu, Gren Manuel, Andy Major, Richard Ryder, Barry Holt, Phil Scanlon, Rob Dwyer-Joyce, all the Union Bar staff, Dave Clements, Sheffield Print Unit, Prof Ash, Eugene Zhog, Nick Goddard, Nick Gardiner, Pete Rodgers, Chris Dodge, Pete Klemperer, Nick Shackley, Adrian Johnson, Gaynoy Whyles, Rob Shields, Aidan Dye, Sean Davis, Pete Hartley, Dan Salmons, Paul Basham, Beit security, Roger Preece, Prof Ash, Don Fergusson, Lesley Gillingham, Dave Parry, Chris Stapleton, Chris Clements, Brian Morrison, WIST, Paul Merckx, John Ingham, J Michaelis, Chris Taig, Oligo, Russel Cox, Chris Murray, Simon Banton, Hugh Stiles, Pete Hands, Dr Steve Cook, all the members of Pub Board, John Coupe and Chris Hendy. I would also like to thank all the people who put up with me when I was depressed. Without you I would probably have resigned. These people include Pete Coleman, Mandy Thornton, Sarah Arthurs, Nick Shackley, Judith Hackney, Dave Jones, Chris Edwards, Pallab Ghosh, Dave Rowe and Christa Satchwell.



Top Row (L-R): Dave Thomas, Gren Manuel, Nobber, Simon Lewis, Aaron Kotcheff, Sarah Kirk, Richard Ellis, Rosemary Hosking, Dave Jones.
Bottom Row (L-R): Hugh Southey, Richard Smith, Bill Goodwin, Chris Edwards, Mark Cottle.

Small Ads

ANNOUNCEMENTS

- **Pimlico Connection Society**
Tutoring in local schools see: R Bleasdale EE3, K Bell Chem Eng 3, leaflets outside 501 Elec Eng.
- **Anyone interested in forming IC 'WOTSOC' (Woman on Top society).**
Contact M P Farrow, Aero 21/2.
- **Unless the Red Heads** keep their knickers to themselves, No. 39 will be declared a Woman-Free Zone.

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- **Bargain Ford Corsaw 2000E**, G Reg, Sky blue, excellent bodywork and mechanics, vinyl roof. £375 ono Phone 789 3349. (or ask for Jeremy on ext 4142)

PERSONAL

- **Doctor and the Medics No 1**, must be the miracle of the age.
- **Would the person or persons** please return the lettuce to the Holland Club Sexual Advice Column.
- **How do you make love** to a fat lady? Roll her in flour and go for the damp bit.
- **Five rings** for cheese-cake and a sticky knob!
- **Two at once**, Shaun?
- **Martin it's one o'clock!** Why are you still in bed?
- **Tactical withdrawal No 1** the Neely Method: If a drunk woman puts her arms round your neck and kisses you, make a fast (?) getaway in a handy herald soft-top.
- **The Neely early morning alarm** call a dawn chorus from two drunken birds.
- **Fast entry method** for No. 39 five rings and you're in (or he is!) they call him 'finite element' Farrow. I wonder why?

- **Martin 'Hunk' Farrow**—I've seen more meat in a nutburger
- **Wife-swapping** and kinky fun? IC WOTSOC (See Announcement)
- **O! Martin**, what did she want the whisk for?

All clubs are asked to clear their pigeon holes in the Union Office. Any club not doing so will have their stuff thrown in the bin.

Anyone wanting a professional bound complete set of this year's FELIXs should order it from the FELIX Office now. The price of the bound editions is £17.

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A Sideways Look

(Warning: the opinions expressed herein are not necessarily those of the FELIX Editor or of the author even. This does not detract, however, from the possible veracity of the arguments put forward)

Having spent my previous columns slagging everyone I'm trying to be nice to someone. To be more precise I'm going to be nice to 3 people—namely this year's Exec. This trio of bastards of the Union have received no end of stick since even before this academic year began.

The cover of the ICU Handbook, which serves as an introduction to IC for many freshers, even attacked the President, leading to instant credibility problems for Carl among all of the first years. Even College had its go at the Exec by trying to ban him from the usual presidential place in Linstead Hall, and there were so many other reported items on the new Exec over the Summer that there is not enough space to list them. This is hardly the sort of thing that is likely to encourage 3 people in positions of responsibility at the start of

their term of Office!

Then, as the year progressed, more slagging off, potential and real successes or for what ever reasons, always reported, and personal animosities growing all the time.

Looking at it from the Exec's point of view, when all they have got for 6 months, is criticism and complaints its not surprising that they feel that all they get from students is 'a load of grief'.

Now it looks up to now if I'm saying bad news should not be reported. That's not what I'm trying to get at. Our problem at the start of this year was that personal animosities and prejudices caused a lot of damage before anything got started, and certainly some of our current problems have been inherited from them. My first plea, dream, request or whatever, is that people reporting events or producing publications keep personal comments where they belong—ie out of factual reporting. Indeed those are the self same grounds on which Dave and Carl's reports were rejected this year. It's a principle that could well be

applied elsewhere. (And since this is a comment article of a sort I can get away with it).

Now its all very well to say that personal animosities have caused some of our problems this year, and its not surprising that College should take advantage of the divided Union in such areas as the Bot Zoo and FELIX takeovers, but we should look at the root of this bad feeling. It all starts well before last year's election, when the sabbatical candidates became clear. The outstanding character of all the candidates was their mediocrity. None of them were especially experienced in the Union. Carl had been a joke candidate for President two years previously, Quentin's highest post previously was Coffee Machine Rep (but in my humble view has done the best job of the 3 this year), and Dave was a failed Dep Rep. And they were the best of the lot! The real problem is not that the wrong people were elected, as some of those who initially dogged the Exec may think, but that the Union posts did not attract people of a sufficient calibre. I could make a snide comment about democracy; but I did that last week. No, the real problem is that doing things essentially for other people, such as

administering a Union, has become such a degraded activity that those most able are much more likely to go off and get a well paid job, instead of spending another year as a 'student'. I'm happy to say that this does not seem to be the case with next year's Exec, but the problems will return in future years without doubt. Unless working for other people's interests can be made more rewarding (and I don't mean financially, that is not so important in our environment) then Union administrators on all levels, from Club Captains to President will suffer and when all you 'get from students is a load of grief' there is no way you are going to enjoy your job.

So the next time you lose your temper with the Union President, remember that he is human and dislikes being slagged off as much as you do, and someone who gets pissed off with his job doesn't do his job very well. I'm as guilty of this as anyone, but I have realised that this usual distinctive form of criticism can be very counter-productive. Bearing in mind my last 2 columns, my final message is going to seem a trifle paradoxical, but nevertheless, here it is—Being nice to people can sometimes produce surprising results. *Anon of Ibid.*

Council Chaos

A very low turnout of union representatives meant that Joint Council could not be held on Monday. Forty seven people were required to satisfy quorum, but even at the beginning of the meeting there were only thirty three voting members present. The meeting was to have discussed the awarding of the President's UGA, as well as officers' reports and awards to members of the Union.

In the event, after consultation with the sabbaticals Chairman Hugh Stiles decided that a meeting of those present should be held, using Council's Standing Orders and following the same agenda. However any decisions taken would have to be ratified at the first Council of next term, and could in principle be overturned.

President Carl Burgess and Deputy-President Dave Kingston submitted new versions of their annual reports which had been referred back at the ICU Annual General Meeting on

May 22nd. The new reports had had the offending parts deleted but the bodies of the texts remained unchanged. There were no objections to the revised reports and they were passed provisionally.

Minutes of previous meeting of the various minor subcommittees were read and discussed, although it was reiterated that no firm decisions could be made or matters arising from them, and that the meeting could only indicate its felings to the incoming Exec, which would have to make any

decisions on these matters over the summer.

Some of the scheduled elections took place although the elections for Council Chairman and a representative to sit on the Finance and Executive and Governing Body College Committee were deemed to be too important for the meeting to decide, and were held over until the next Council meeting. Pete Wilson was provisionally elected as a representative to the Departmental Computing Committee, Steve Flower to the Humanities Committee, Ian Howgate to the Students Residence Committee and Hugh Southey to Wine Committee.

Finally outgoing members of Council were asked to decide if they were to vote on the awards. Hugh Stiles said that this was the "last chance that the candidates for awards would have to be judged by their peers." The meeting agreed, although there were only nine members of outgoing Council present out of a theoretical minimum of twenty four to vote on them.

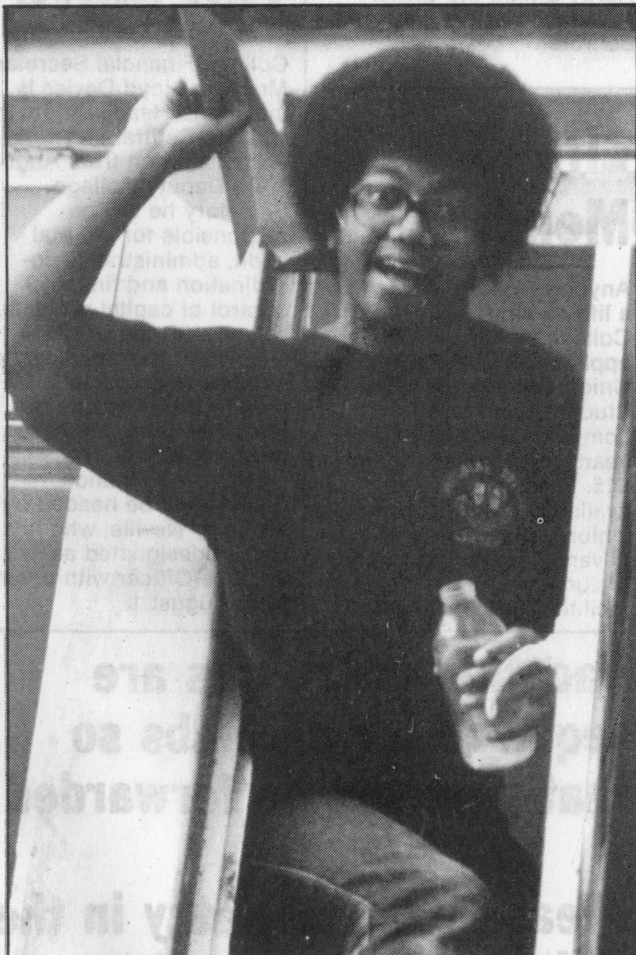
The President's UGA was awarded on a straight vote without discussion following a procedural motion that the question be put. The matter had been carried over from the last Council. Pots were awarded to Nick Shackley, Alan Rose and Quentin Fontana. Honorary Life Memberships were awarded to Quentin Fontana, Pascal Carr, J Martin Taylor and Dave Kingston for services to the Union.

After the meeting Hugh Stiles said that he was very disappointed with the poor turnout, the worst that he

had seen in the three years he had sat on Council. Carl Burgess was also disappointed with the turnout and said that "most of the recommendations will go to the Exec meeting on Friday and since they will have to make all the decisions because Council was inquorate then there is reason why they can be criticised for taking them." He added: "You cannot expect UGMs to be quorate but you can usually expect Council to be." He also said that Hugh Stiles had made the right decision to press ahead with the judging of awards as this was the last opportunity for outgoing Council to discuss them. He agreed with Tim Palmer that it was a farce for nine people to vote on the awards, but that those present had adopted a sensible attitude to the matters discussed.

President-elect Christine Taig regarded the meeting as "a waste of time". She said that she had submitted two nominations for Honorary Life Memberships but withdrew them before walking out, feeling that it would be an insult to give awards at such an unrepresentative meeting. She added that she had a lot of sympathy with Hugh Stiles but believes "decisions were taken which would have gone otherwise had the meeting been quorate."

Honorary Secretary Quentin Fontana also walked out of the meeting in disgust, to return later. He was very disappointed, especially as £35 of Union money and two days of his time had been wasted on preparing the Council papers which had gone largely unused.



Council is a committee of 48 elected representatives of the Union, including the Sabbaticals, CCU Presidents, Officers (including Welfare, Womens', Academic Affairs etc.) and Dep Reps. As such it has the highest powers of any committee, and is responsible for any changes in the Union. All of the officers have to report to Council at its regular monthly meetings, including the President. All decisions have to be ratified by Council except under extenuating circumstances.

AUT Protest

Fifty members of Imperial College Staff supported a national protest against the Governments policies on higher Education Last Thursday. The Demonstration was organised by the Association of University Teachers (AUT) and who had limited support from the ASTMS and NALGO.

The protest began with a march from Gordon Square to the Department of Education and Science, where a mock examination paper was presented to Education minister Kenneth Baker, 'Questioning' the Government on its record to date. The meeting then moved on to Central Hall, where Liberal leader David Steel, SDP Leader David Owen, and Labour MP Giles Radice made speeches..

The demonstration proceeded to Westminster itself where a massive lobbying exercise was organised Professor Frank Leppington of ICAUT, said that the majority of staff were members of the AUT, but a small number of representatives from the other campus Unions had also attended.



Bar Blues

The transfer of the Union Bar licence will be delayed for at least two months. The licencees were due to change on July 1, but due to a misunderstanding of the requirements for transfer of the licence the Union will not be able to complete the takeover for the Union Bar until early September.

Union President Carl Burgess told FELIX that he had thought that a simple covering letter from the College's Licencees would be adequate to transfer the bar to the Union's nominees. In fact the transfer first requires the approval of Bar Committee. This was not discovered until the deadline of the

Licence application had arrived.

Mr Burgess commented that the delay would make little difference since only the Summer vacation would be affected. He explained that Refectory Manager Rob Northey, the Current Licencee, was willing to keep his name on the License until after the takeover could be confirmed. Mr Burgess expressed his gratitude to Mr Northey for his services.

When the Union takes full control of bar the Licensees will be Mrs Jen Hardy Smith, the Union Administrator and Dr Bob Schroter.

HPV Club Go To Brighton

Among the thousands of people joining in the Annual London to Brighton Cycle ride last Sunday was HPV Club member Dave Larrington Pedalling the club's Windcheetah reclining trike. The Windcheetah is one of two that were pedalled round the coast of Britain in 1982 and is an attempt to produce a more efficient pedal driven vehicle. The journey down was undertaken at a modest pace due to the congestion on the roads and several pub stops on the way. The Windcheetah made a considerable impact with its revolutionary layout and was keenly followed by assorted TV crews. The fine weather prompted a massive turnout which clogged the route with cyclists and made the ride the largest mass cycling event in the world.

BLD On The Move

College Financial Secretary Mr Brian Lloyd Davies is moving to Headquarters in College Central Administration from August 1. As Deputy College Secretary he will be responsible for internal audit, administrative co-ordination and financial control of capital projects, liaison with the UGC, CVCP and the University of London, and special assignment. The title of Financial Secretary has been abolished. The reorganised Finance Section will be headed by Mr Terry Neville, who has been redesignated as Finance Officer with effect from August 1.

Classified Research

Further incidents of the Strategic Defence Initiative Organisation (SDIO) trying to restrict publication of research work have come to light recently. Dr Andrew Sessler of the Lawrence Livermore National Laboratory in American had to wait one year after completion of his research before the SDIO finally agreed to allow publication. Dr Sessler is working on free electron lasers.

In a recent interview Dr Sessler said that when the research had reached an advanced stage, he had been asked 'to keep quiet' about his findings even though the project was not classified. Originally the work had been funded by the Department of Energy. Dr Sessler said he had never signed a contract which imposed restriction on publication. He thought that in contract between Universities and SDI there

would be a clause giving SDI the right to review any paper or presentation, prior to publication with the right to withhold publication, even if the research was regarded as 'unclassified'.

Mike Missing

Concern is growing over the whereabouts of 2nd year Met & Mat Sci Student Mike Smith. Mike, best known as Captain of the Motor Club, was last seen on Friday 30th May. Suspicion was aroused when he failed to attend an exam that afternoon and it has since proved impossible to contact him. Mike's personal tutor, Dr M G Hocking, has appealed for any further information about Mike's whereabouts.

Life Membership

Anyone wishing to become a life member of Imperial College Union can obtain application forms from the Union Office in Beit Quad. Students who have completed three academic years pay a subscription of £15. Further details are available from Jen in the Union Office. Some of the advantages of membership include use of all Union facilities and amenities.

Vacation addresses are required for all clubs so that post can be forwarded

Please contact Kathy in the Union Office

Housing Benefits In Danger

Students may be unable to claim Housing Benefits this Summer owing to Government delays. Next year's grant cheques are also unlikely to reach students by the start of term.

According to a report in the Guardian, Social Security Offices are unable to pay housing benefit until the Government's policy is announced. Similarly, Local Education Authorities cannot deal with grant applications until the Government's regulations

are passed through Parliament.

The Government initially intended to replace housing benefit with a £36 increase in the annual grant; If implemented this could mean that some students may lose £720 per year. In the wake of unfavourable reports by the Social Security Advisory Committee, the Government's plans are under review and the Department of Education is trying to increase the £36 limit.

Breast Screen

The Health Service has established a breast screening programme for female members of College over 35. It is being run with the cooperation of the Royal Marsden Hospital and includes a mammograph, a sort of X-ray. Women wishing to put their name on the waiting list should contact Elizabeth Pask on extension 3088. A small donation is required and the Health Service expects there to be some delay as places are limited and interest is considerable.

4% Rise In Subvention

An increase of 4% in IC Union's funding was confirmed by the College Governing Body and the Finance and Executive Committees on Friday. The Union will receive £250,000 next year, as opposed to the £238,000 last year.

The increase in the Union's subvention had been anticipated and was taken into account at the emergency meeting of the Union Finance Committee two weeks ago, where it was decided not to completely withdraw funds from any clubs. Union Deputy President Dave Kingston was nevertheless relieved at the news of the increase. 'It is now almost certain that we won't have to make any more cuts next year,' he commented.

Libraries

The Lyon Playfair and Haldane Libraries are to be computerised in July 1986. A single barcoded library card will be issued to borrowers for both Libraries. Periodicals, Records and Tapes, Reports Series and some of the smaller specialist collections will not be on the system, but will continue to be issued on the present systems. The librarians hope to have most of the library cards ready by the beginning of the next academic year.

Moore

Moore Lyttle has resigned his position as Union Bar Manager. He has resigned because of personal reasons and is due to leave on July 3rd. Union President Carl Burgess and Deputy President Dave Kingston have expressed their regrets at Mr Lyttle's departure.

Ferry Tale

Students wishing to travel abroad with a car can travel at reduced fares on Sealink Ferries. The offer enables students with valid International Student Identity cards to travel from Dover to Calais or from Folkestone to Boulogne. Details can be obtained from Sealink on (0304) 203277.

Natural History Charges

Visitors to the Natural History Museum, Geological Museum and the Zoological Museum will have to pay admission charges from April 1987. The Trades Union at the Museums have started a campaign against the introduction of admission charges and are demanding improved funding for the museums. The Unions are circulating a petition addressed to the Trustees of the British Museum (Natural History). There is a copy in the FELIX Office for anyone who would like to add their name to the petition.

4 Student Managers required for Head Tenancies-1986/7

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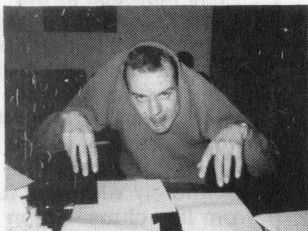
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TRIVIA QUIZ TRIVIA QUIZ TRIVIA QUIZ TRIVIA QUIZ

As we reach the end of another year of FELIX it seemed interesting to try and see how much of the years news and trivia people could still recall. Elsewhere in this issue Dave Jones takes a look at what FELIX has written in its news pages, but what do you really remember about this year. Indeed did you ever bother to keep track of, for instance, the number of bar managers we've had since last October (5 at the last count) and did you ever find out who the Fluffy Rabbit Mascotry Squad were. Well even if you didn't you might still care to spot the libellous insinuations in the FELIX TRIVIA QUIZ.....

1: These three photos are all of people involved in novel money making schemes what exactly were each of them doing to appear in FELIX ?



2: Who said in Felix No. 732 "I regret to say I turned up more than somewhat inebriated" ?

3: Who according to the IC radio news editor "only tells you something useful after 15 minutes of rambling", is it,
A. Tony Spencer
B. Dave Kingston
C. J Martin Taylor

4: Whose Baby arrived in February ?

5: Occasionally IC manages to make national news, can you remember,
A. Who made headlines in the Daily Mirror and the Star on April 16th ?

B. Who was being referred to under the Felix headline 'Brian Pulls It Off' and why?

C. Who was being referred to in the story titled 'Parsons Flies' and why ?

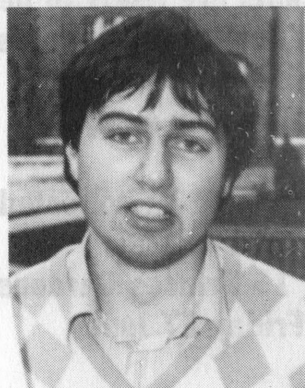
6: Why did External Affairs Officer Grenville Manuel grow a beard ?

7: What was Eugene Zhog's claim to fame ?

8: The following photos have quotes from letters and articles, which have appeared in FELIX, associated with them. However the quotes have been jumbled, can you fit the faces to what they wrote and said?



A. "The recent breaking of my thumb was typical of the way FELIX has gone"



B. "A manifesto is usually a list of promises never carried out"



C. "I am a hypocrite"



D. "A student body which doesn't reason and argue clearly, is a waste of time"

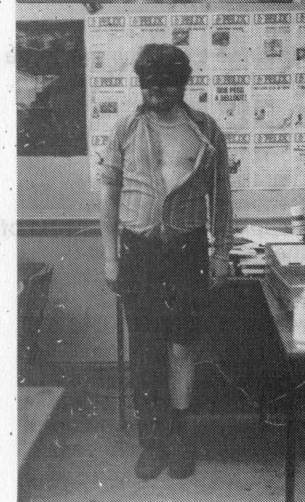


E. "I do not believe that access to me will be a problem provided that people are prepared to see me at what might be called unsocial hours"



F. "We go out of our way to offend every group"

9: Which of the following photos does not show a member of the Masons ?



10: Who was most disappointed in not receiving a Union General Award?

A. Alan Rose
B. Alan Rose
C. Alan Rose
D. Dave Kingston



11: Who had the most 'blow jobs' this year?

A. Symon Corns
B. Carl Burgess
C. Hugh Southey

12: Who was the "biggest plonker" in the union bar this year?



**(For the all important answers
turn to page 14)**

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Summer Benefits

Welfare Advisor Lesley Gillingham looks at what you can claim this Summer.

It is now time to think about claiming money over the Summer vacation. This article is designed to give you an idea of what you can claim and how to do it! If you find yourself confused or in difficulties then call into Student Services and see Lesley, the Welfare Adviser.

Undergraduate Students

Unlike the Christmas and Easter vacations, there is no element included in the student grant to cover 'living expenses' over the summer vacation and therefore if you are unable to find a job you will be eligible to 'sign on' as unemployed in the area in which you are living.

Postgraduate Students

Postgraduate students can only 'sign on' in the period that they are not receiving a grant or sponsorship. This is often difficult to prove. However you should be able to claim Standard Housing benefit.

Which Benefit

There are three main types of benefit: Unemployment Benefit, Supplementary Benefit and Housing Benefit. They are not mutually exclusive and it is possible to receive two or in some circumstances all three types of benefit at the same time (but only up to £30.45 plus rent a week for a single person).

Unemployment Benefit

To be eligible for this benefit you will have to have paid or been credited with Class 1 National Insurance contributions on earning of at least £1767 between April 1984 and March 1985. This will give you a basic rate of £30.45 a week. (See 'How to claim' below.)

Supplementary Benefit

Supplementary Benefit was set up as a 'safety net' for those who did not meet the conditions for Unemployment Benefit. It is now the principal source of income for a large portion of the unemployed

including most student claimants. Eligibility is dependent on the claimants ability to 'sign on' as available for work in the area in which they live.

There are three rates of benefit: 'Householder', 'Jointholder' and 'Non householder'.

Non Householder: Most students living with a landlady/landlord will be classed as non householders. If you are classified as a non householder you will receive a basic rate of £23.60pw.

Joint Householder: Students sharing flats will be classed as joint householders. The benefit rate for a joint householder is slightly higher than that for a non householder and you will probably receive a basic rate of approx £25pw. **Householder:** students living in individual bedsits may be classed as householders. This will give a basic rate of £29.50pw. **The term 'Householder' is loose and ill defined and open to appeal but obviously the DHSS will seek to classify students as non householder where possible.**

Students living in Colleges Halls of residence or houses will almost certainly be classified as non householders.

How to Claim

On the first weekday of the vacation go to your local Unemployment benefit office (address in the phone book) and 'sign on' as available for work. Take along your P45 (if you have one) and your National Insurance number. They will tell you any future arrangements for signing on, and get you to fill in a number of forms and give you a B1 claim form which should be taken to the local Supplementary Benefit-Office. The Supplementary Benefit Office will probably call you to an interview and you

will need to take certain document with you rent book/receipts (letter from Students Services if staying in College accommodation) and a recent bank Statement.

Housing Benefit

During the summer vacation your entitlement to Housing Benefit will depend on your circumstances. If you are receiving Unemployment Benefit or Supplementary Benefit, you should receive between 80-100% of your housing costs back through Certificated Housing Benefit or through Standard Housing Benefit and Housing Benefit Supplement.

Types of Housing Benefit: Certificated Housing Benefit:

for those receiving Supplementary Benefit. Under this benefit you may receive 100% of your housing costs.

Standard Housing Benefit: anyone can apply for this benefit if they pay housing cost. The basic rebate is 60% plus additions if your income is below the set 'Needs allowance'.

Housing Benefit Supplement:

an addition to Standard Housing Benefit for those who narrowly miss qualifying for Supplementary Benefit on income grounds.

How to Claim

If you are claiming Unemployment or Supplementary Benefit: all you need to do is to make it clear to the people dealing with your claim that you wish to claim Housing Benefit. They should then send you all the appropriate forms to be completed and returned to your local Housing Authority.

If you are NOT claiming Unemployment or Supplementary Benefit:

You can still claim Standard Housing Benefit. You need to submit a claim to the local Housing Authority for the area in

which you are paying rent. Student Services have applications forms from majority of borough. You claim will be dated from the day the Housing Authority receives the application form, you will need to submit proof of income and proof of how much rent you pay.

Useful Information

Holidays Housing Benefit can be paid during temporary absences but you should let the Housing Benefit office know your plans. For Unemployment or Supplementary benefit you can complete a holiday form which will allow you up to sixteen days away within the British Isles without losing benefit but must sign on again as soon as you get back. If you go on holiday abroad you will not be entitled to ANY Benefit whilst you are out of the country and you must start a completely NEW claim as soon as you return.

Co-habiting When an unmarried couple live together they are treated as a married couple for benefit purposes. The Official reason for this regulation is to be fair to married couples, but since a married couple receive considerably less than two single people it is easy to see another reason for this regulation. To avoid being classed as a couple you will have to prove that the two of you live totally independent, normally you will have to prove you have your own rooms.

Appeals if you feel your benefit has been incorrectly or unfairly assessed don't be afraid to appeal. Call into the Student Services as soon as possible to discuss the procedure, a delay could lose you the right to appeal.

Remember: If you experience any problems call into the student services office and ask to see the Welfare Adviser.

Prescription Charges

Many students are eligible for exemption from prescription and dental charges on grounds of income. It is worth applying to the DHSS on form FP91 which is available in DHSS offices and the Health Centre.

If your application is turned down it is often worth asking why, and it

may be worth appealing against the decision.

If you intend to apply for exemption keep receipts for any charges made-you may be eligible to have the cost refunded if you are successful.

Good luck!

Raaman Gillon

Director, Health Centre

We are extremely fortunate that jazz music has evolved side by side with techniques we may use to record it. Indeed, with the exception of the electronic avant-garde music, that started in the late fifties, jazz is possibly the only form of music to hold such a claim. It is, however, unfortunate that at the birth of this new art-form, the opportunities for black performers to record their work were extremely scarce. As jazz has evolved, performers and (especially) audiences have tended to forget **these** roots, or at best, to pay some token homage to them, in the light of better times. Hence the spirit behind rhythm and blues-slavery, segregation and exile have been largely displaced by a modern jazz and emphasises technique, syncopation, rhythm, energy, to a largely white audience. Nevertheless, the driving force behind this creativity, despite its development, remains intact; Jazz was expected to be **about** something.

In order to express themselves clearly, jazz musicians have used the human voice to sing, to speak and to use as an instrument in itself. Early singers were unconstrained; John Lee Hooker, Leadbelly, Muddy Waters and later, B B King sung their injustices to an eager and receptive black audience. The pianist, Bud Powell, frequently moaned and snarled as he played to add emphasis to the mood of his music, rather than develop his unique but heavy-handed playing technique.

In this way, black artist of the forties, fifties and early sixties were able to express themselves with a certain sense of freedom, and yet

Words To Music

still retain the respect of white audiences that allowed them to play in clubs, restaurants and bars and earn a living wage. Most musicians knew it was unethical, but if they were good enough to play in white clubs, found themselves with little option. Other saw it as a chance to directly challenge their audiences with black issues, and it is not co-incidental that many of the direct blues singers were women: Billie Holiday made Allan's composition 'Strange Fruit' and 'God Bless the Child' lastingly famous; referring to the white jazz-clubs scattered across Eastern and Middle American, Bessie Smith cries (in a live recording of 'Barrelhouse Blues' given to an all white audience): '25 cents? Ha! No, no, I wouldn't pay 25 cents to go in nowhere!' For those musicians who staked their reputation on performances such as these, it was disheartening to find that, to a large number of white musicians, black music was taboo.

The overwhelming urge for the black artist to express himself or herself unambiguously was released in the early sixties by a young saxophonist called John Coltrane. His early work with Thelonious Monk and Miles Davis, with whom he produced 'Kind Of Blue', had long established him as a talented mainstream performer. He played incessantly fast, breaking bars into sixteenths and thirty seconds, and introducing different keys, modes and time signatures to his own improvisations, whilst his backing band

beat the time of the original theme. After a performance of 'My Favourite Things' at the Village Vanguard, critics found themselves strongly divided over his talent:

The irrational nature of Coltrane's playing broke Jazz music into two. Artist such as Archie Shepp, Ornette Coleman and Don Cherry were directly influenced by John Coltrane, creating an experimental 'Free Form' jazz that was angry, challenging and frequently deride as, for example, Shepp's 'Rufus (turned his face to he wind and the rope broke his neck)'. Reactionary music such as this, however, was far more enigmatic to white audiences than were the double-entendres of the blues-singers twenty years previously; although of some interest to musicians, 'The Art Of the Improvisers', as Coleman described the movement, was largely irrelevant.

Jazz...America's only true art form.

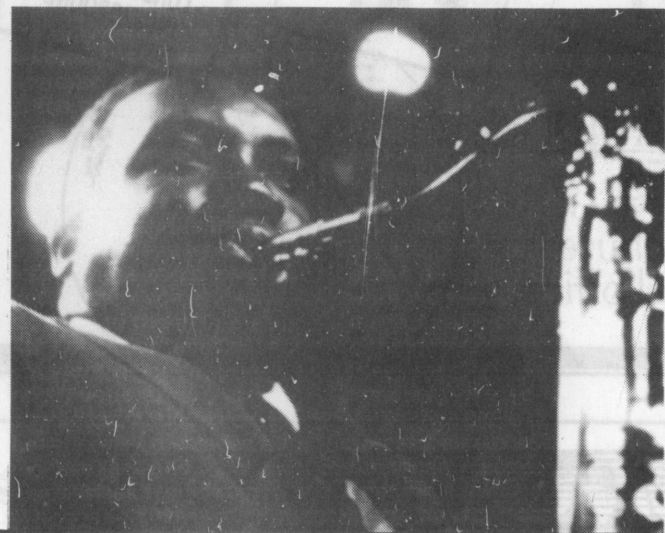
Far more influential were those artists who combined free-form jazz with the spoken word: Charles Mingus, Max Roach, Miles Davis, and the work of Jala Nuriddin and the Last Poeters. Using modern jazz as a medium for poetry, composers were able to underline important aspects of their music in verse, whilst black poets, discredited or suppressed in white literary circles, used universally admired musician, such as Herbie Hancock and Chick Corea who were rapidly becoming established in 'funk' and 'jazz fusion', as vehicle for their work.

Much of the early jazz poetry draws its material from transcendental or narcotic drug experiences, apocalyptic or prophetic Christian and Muslim texts or black political writing. None of this was original; bebop singers or 'wailers' of the forties had delighted in taking common music-hall and vaudeville tunes and plagiarising their lyrics with surreal images. Stylistically, however, the new poetry attempts to closely imitate the performing jazz instrument, indulging in long sections of text without punctuation to simulate the characteristic

glissando riffs of free-form saxophone. Short words are preferred, in the same way that a performer will use single run in notes and not block chords. Syncopation is introduced by rhyming words on upbeats or at irregular intervals; monosyllables also help in this respect, making the text more flexible. Colours are especially important. Apart from the more obvious psychedelic connotation, colours are strongly suggestive of mode, pitch and timbre, and many colours juxtaposed with each other emphasise the powerful confusion of free-form jazz and its underlying spirit:

Jazz poetry has often been correctly linked to 'Rap', rhyming couplets spoken over a simple funk backing or syncopated drum beat. Few of these compositions, however, capture the essence behind modern jazz. Early recordings dealt with black issues; accomodation, segregational apartheid. As 'Rap' has developed,

however, it has become more a platform for a performers ego rather than political issues. In addition, 'Rap' was conceived with one principle ambition: to provide a different form of music to dance to, where a free-form jazz has steadily professed away from the constraint of rhythm. There are signs, however, that the new poetry has come more moderate, presumably to influence a younger generation. Archie Shepp mixes his live performances with free-form jazz and the very roots of jazz: rhythm and blues. Gil Scott Heron has enjoyed a recent rise in popularity. The new jazz-revivalists, Working Week, incorporated Jala Nuriddin in a new work, 'Stella Marina' for their debut LP, 'Working Nights'. Women poets have also taken to jazz music as a means of expression, as for example Maggie Nichols and The Feminist Improvising Group, and a novel recording company, Stropo cow. As the popularity of jazz increases, spurred on by the spate of 'revivals', there is a strong chance that Jazz Poetry may once more develop and encourage the roots of black music to grow.



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Huge Amounts Of Editor

A Profile By The Staff

round off the evening by sharing a bed for the night. Suffice it to say that when one of this close circle of friends decided to get married Hugh was the immediate choice for 'best man'.

A devout follower of Chelsea FC and Middlesex, Hugh's secret desire is to be a combination of Kerry Dixon and Mike Gatting. Though he led the FELIX football team to their first ever victory last year his cricketing prowess is rather basic. Whilst playing in the annual FELIX fixture he was struck on the head by a 'fast' bowler after losing sight of the ball completely. Though it was gently pointed out to him later that the ball was a slow low-g-hop Hugh, is still convinced that he narrowly avoided serious injury from a bowler of Lillian pace.

Hugh has, though, found a special niche in the IC Hockey 3rds this year. It was during a game with these intrepid sportsmen that he was struck by an opponent's stick and had his thumb broken. After proudly parading his heavily strapped injury for a week, Hugh decided he was 'match-fit' once again and returned to the ranks. St Steven's were not impressed when he turned up in casualty with a second fracture of the same thumb.

This year, not least because of an endless series of technical problems, Hugh has had to put in an immense amount of time in order to bring FELIX out every Friday. At six o'clock on the evening before publication of the penultimate issue only one sheet of FELIX was printed and the litho had refused to work for the last six hours. Any normal person would have given up and brought FELIX out on Monday, but with what seemed like bloody-minded stubbornness at the time, Hugh persevered and finally got the machine running.

This is my last issue. There are no more after this. This is the end of this year's FELIX. Oh dear. It's a shame. I don't think I'll be doing any more issues. I'm not going to criticise anyone this week. College should give us lots of money. Never mind. Nobody takes Dan Hill seriously. This is serious. People who do not take Dan Hill seriously take themselves too seriously. Nobody gave me a box of chocolates this week. This was a bad thing. I should have chocolates every week. My balls are still itching. That just about takes up enough space. One more line and I'll have reached the credits. Here come the credits.....

D Hugh Southey began working on FELIX as soon as he arrived at College four years ago. The fresh-faced chemical engineer gave evidence of his irrational enthusiasm early on by sticking to the mind-blowingly tedious job of 'What's On' editor for six months.

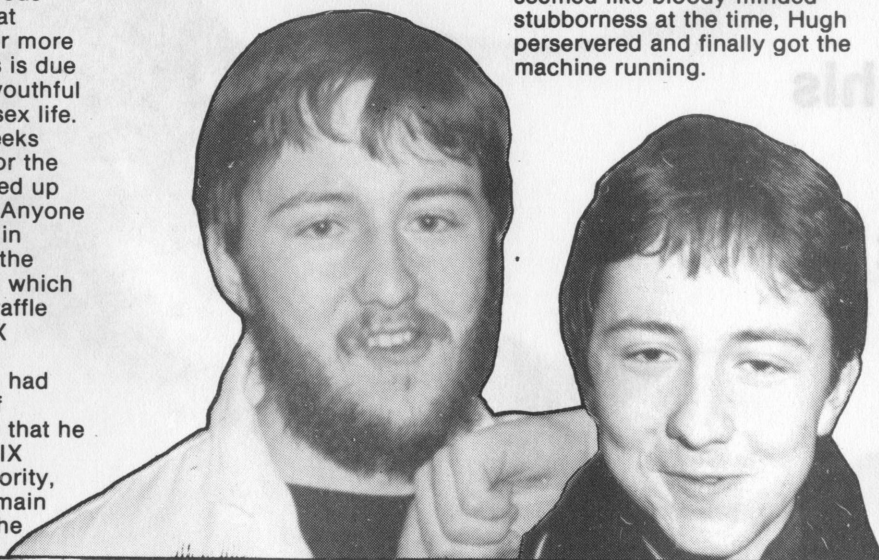
Throughout the three years before he became editor, Hugh was one of the most dedicated self-publicists in College. As well as sitting on most of the important Union committees, Hugh made sure he was never out of the news. In his second year he was pictured on the front page of FELIX, having saved an injured pigeon from being run over in Prince Consort Road. (The wretched bird was bumped off shortly afterwards, but this was not recorded).

Despite his broad experience of College life, Hugh has always been uncontrollably nervous and fidgety, and has great difficulty standing still for more than a few seconds. This is due to a combination of his youthful exuberance and limited sex life. Recently he spent six weeks trying to find a partner for the College Dinner, and ended up taking a friend's fiancé. (Anyone who might be interested in accompanying Hugh on the weekend for two in Paris which he won in the Rag Fete raffle should contact the FELIX Office).

By his third year Hugh had made such a good job of blowing his own trumpet that he won the election for FELIX editor by a landslide majority, though the fact that his main rival had never entered the

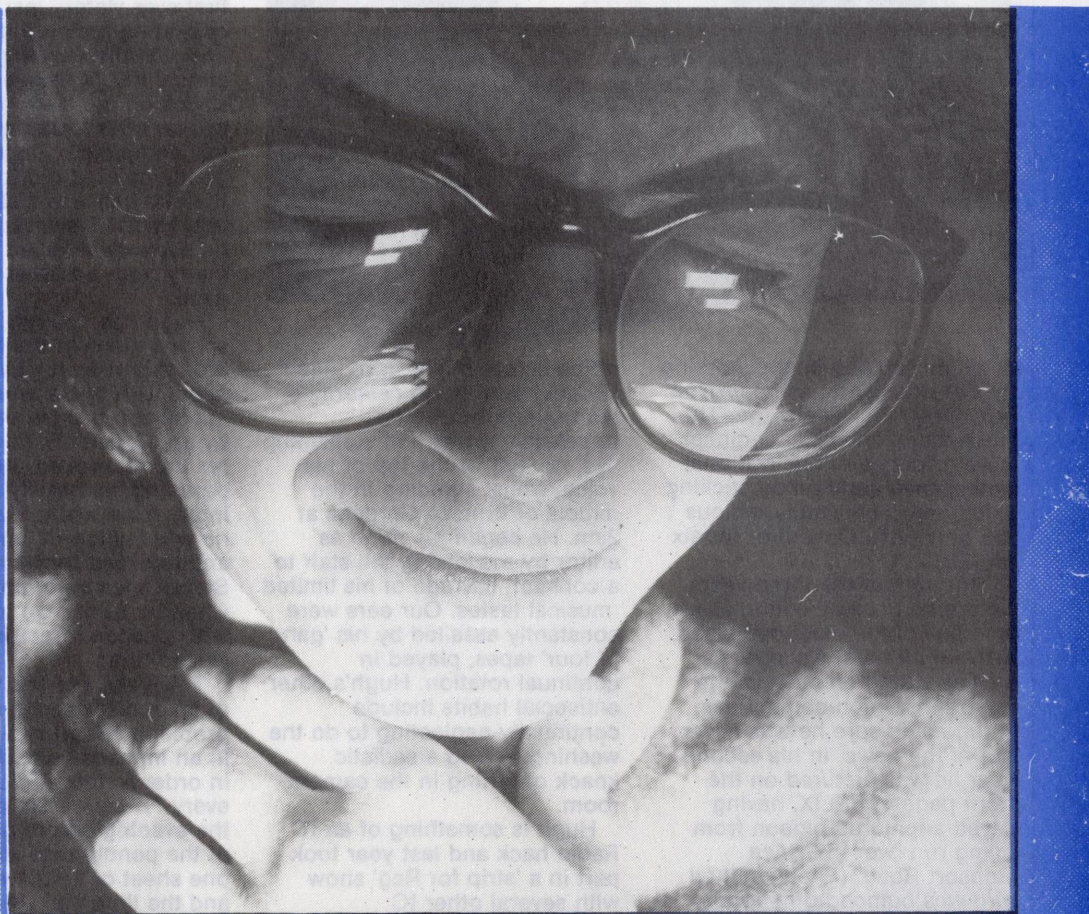
office before might have aided his easy win. Hugh celebrated his triumph by getting hopelessly drunk and screaming 'No, no, no!' at the top of his voice, whilst standing in the middle of Princes Gardens at 2am. He began his reign as editor by subjecting the staff to a constant barrage of his limited musical tastes. Our ears were constantly assailed by his 'gang of four' tapes, played in continual rotation. Hugh's other antisocial habits include continually neglecting to do the washing up and a sadistic knack of farting in the camera room.

Hugh is something of an IC Radio hack and last year took part in a 'strip for Rag' show with several other IC notables—Hugh's bum beamed forth from the following issue of FELIX. Four of the charitable exhibitionists then decided to



Pure Genius

Love him or hate him no-one can deny that Rex Reeves has made an impact on the world. In an exclusive interview with **FELIX** Rex talks about his career including his time as a student at Imperial College.



When he graduated in 1972 Matthew Johnson seemed destined to be one of the world's non-entities. Fourteen years later he's known as Rex Reeves and seen by many as one of the driving forces behind British rock music of the 70's. He's slightly built, deceptively tall and totally obnoxious -or at least that is what the press would have you believe. On meeting him in person all those press cuttings seemed so far away from reality I thought he'd sent a stand in. Dressed in an immaculate navy blue suit, his hair permed to hide the thin patches and sporting stylish red glasses the former wild man of rock had obviously changed. His features are remarkably angelic for a man branded by many as evil and they certainly belie his thirty five years.

'Just because I don't smash up hotel rooms and kill animals with my teeth I'm supposed to have sold out. People just don't seem to have grasped the whole statement I was trying to make through my music. My generation had everything the kids of the sixties had but we were robbed of any sense of

"I dedicated my 'wide eyed and legless' cover version to leprosy research"

originality -everything had been done before. Freud was right, it's all a matter of penis frustration really, we just had to wait for an opening. The quickest way to succeed isn't to push hard but to know where you want to go.' I decided to let the opening remark pass and ask him about his time at college.

At Imperial Rex learned all the arts associated with wine, women and song, the second being an even rarer commodity then than it is now. It took him only three lectures to realise that physics didn't interest him, but in those days the grant was plentiful and, as this years ICU President has proved, it doesn't take much to get a degree in physics. Music played a very important part in his life and in those early experimental days he showed the great versatility of the bass guitar. He laughed as he told me that his first band was called The Cockroaches in fond memory of his room in Beit Hall.

After graduating Rex joined the countless hoards trying to discover their true selves. 'The work I did at that

time was full of a primeval energy that just flowed through me every hour of the day. It was to attenuate my body to its etherial frequency that I began to take LSD and it opened out whole new vistas for me. It was the gateway to the work I knew was within me. I had an irresistible urge to communicate, every note I produced seemed predestined by a mighty power. You can't explain that sort of experience in terms of words.'

This desire to explore the more off-beat realms of personal experience is believed to have been partially responsible for his classification as a complete nutter by his critics. Rex spent over three years in the musical wilderness before he was offered his first recording contract. It had been his

"It's all a matter of penis frustration really"

supreme goal but success was elusive. 'The visual spectacle of my art has always been as important to me as the aural. I once bit off the head of a white swan on stage in Birmingham but you can't capture that sort of statement on a record and the film companies just weren't interested.

It was for the nature of his charity work that Rex received most flack in the press. 'I vividly remember the outcry from the self proclaimed protectors of public decency when I dedicated the proceeds of my 'wide eyed and legless' cover version to leprosy research. It's at times like that when everything you stand for is being trampled on that you really find out who your true friends are. The record company disowned me and people I had trusted wrote terrible things about me in the press, claiming I took drugs, was cruel to animals and was totally insane. I was outraged at these lies but I knew the establishment had been against me ever since my teacher burned my creative composition in front of the class.'

Rex was soon blacked by every record company in the UK. Desperately seeking an outlet for his natural creativity he finally found the rôle that has earned him £2m in the last five years. 'I finally feel fulfilled knowing my work reaches thousands of people every day. I was overjoyed when I was given the Mills & Boon contract, though it sadly caused a lot of problems with the few friends who had stuck by me. I felt I was being labelled and refused to

be shoved into a box and forgotten. My first major work was *Hidden Depths* and told the story of a young checkout girl who was initially rejected by authoritarian society but eventually finds fulfillment by marrying a policeman. The story operates on several levels depending on the nature of the reader. For me the most striking facet is the total rejection of the Freudian ethos of sexual causality by the girl, who insists on maintaining her virginity until the wedding night. I further explored this theme in my second book, *Forbidden Love*, which explores the conflict between a dockers daughter and her so called betters before she finds happiness with the manager of the fruit canning factory where she works.' I could see the gleam in his eye as Rex talked at length of these major works which were both nominated for the Jane Lovelace Memorial Award. At last his great genius had been acknowledged, a final defiant gesture to those who call him insane.

Under his pen name of Victoria Pearl Rex has recently teamed up with Claire Raynor (alias Greg 'Pecker' Williams of The Rubbers) to produce a best selling diet book for the American market. Rex firmly believes in the high fat, high carbohydrate, low fibre diet which he has personally practiced for the whole of his life. This tough regime, known as the Binge Plan, has proved immensely popular with the health-conscious

"I was overjoyed when I was given the Mills & Boon contract"

Americans and Rex will finish a British edition once he has fully recovered from his recent heart bypass operation.

Sadly, Rex now acknowledges that his recording career is over having fought many battles to maintain his artistic integrity. His music failed to get his message but writing has given him a second chance. He looks back with affection to the week when he received twenty thousand fan letters each day after one appearance on the Old Grey Whistle Test. Perhaps calling Anne Nightingale a stupid bag on air will be his most lasting claim to fame. *Next week Felix will interview Albert Sprog, a world famous banana grower who graduated in civil engineering in 1967.*

The Times They Are a-Changing

Having to sit down and write an article on next year's FELIX has brought home to me how much I have yet to decide upon before the start of next term. More significantly all the plans I would put forward—a wider range of news items, more relevant feature articles, revitalised clubs and sports pages, and a greater emphasis on student feedback—have year after year been cited by the editor-elect as changes he would like to introduce. Taking as read that I will do my best to institute most of the above, I should like to emphasise particularly my aim to expand the FELIX student staff. Without question this year has been one of the best ever in terms of recruiting new talent from the student body. It is very important to see that this continues next session, and I will try to ensure that the FELIX office has a higher profile at the start of term.

Most of the work on design and layout of the paper must be done over the summer. To ask for any ideas or criticisms from the student readership between now and October is the most clichéd request made in this column, but I'm going to make it anyway. The simple fact that this appeal rarely meets with any response makes any

comment you might have to offer all the more valuable. Needless to say, anyone who wishes to work on FELIX will be greeted with open arms, or at least bought a drink. If you are around College over the vacation and haven't paid much attention to the frenzied activities within these walls, then take the opportunity to come in over the summer when the office is less hectic. We are particularly in need of

regular photographers and cartoonists.

I am aiming to bring out two 'postgraduate' issues of FELIX over the summer, provisionally on Friday August 1 and Friday September 5, though these dates may have to be altered to fit in with the move of the office. Copy deadline for these issues will be one week prior to the date of publication.

David Jones



Quiz Answers

1. From top to bottom: Ex-Consoc Chairman Graham Brown was marketing novelty bath plugs; Prof Manny Lehman sold out to SDI; Guilds raised over £200 for Rag with their slave auction

2. Carl Burgess

3. Dave Kingston

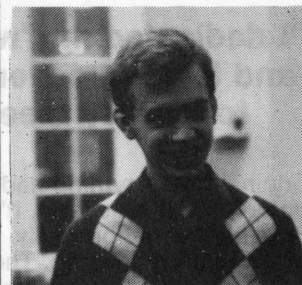
4. IC Welfare Officer Pete Wilson was responsible for the installation of the Southside contraceptive machine which became known as Pete's "baby".

5. A Rag Mag editor Tony Spencer hit the headlines for his Bradford Fire Disaster Jokes

B Brian Hartley was fined £25 for streaking at Twickenham

C Geoff Parsons of the RSM broke the UK Indoor highjump record.

6.



7. Winner of the 1962 Albanian Mountain Cycling Championship

8. A Hugh Southey
B Christine Taig
C Michael Newman
D Dave Kingston
E Prof Eric Ash
F Carl Burgess (about the Rag Mag)

11. B Thousands of inflatable Carl Burgesses were given away at Christmas.

12. None of these it was a trick question!

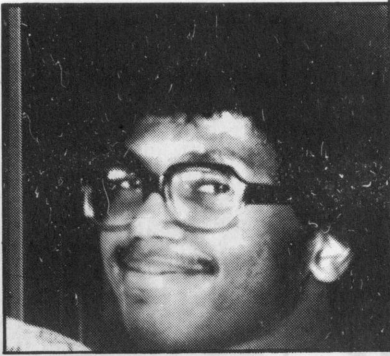
If you are a final year student and would like to receive issues of next year's FELIX, please fill in this form and return it, with £10 subscription, to the FELIX Office, Imperial College Union, Prince Consort Road London SW7 2BB.

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Carl Burgess

The FELIX Interview

Carl Burgess will be remembered by many as a weak President who was frequently criticised for his unrepresentative decision-making and poor personal conduct. In an end-of-session interview with FELIX last week he reviewed the Union's achievements and setbacks.

FELIX: Much of your time is spent on College committees. How effective do you think you have been in representing the Union at this level?

CB: I think I've done what I'm supposed to do; put forward the Union's viewpoint, or the students' viewpoint in fact, for example on issues such as accommodation. At Governing Body I've said that the major problem for students is the lack of accommodation available, and this has been a prevalent issue for many years now.

FELIX: The early part of the year was dominated by the takeover of the Union Bar. How successful financially has this venture been so far, and are there, in your opinion, more ordinary students using the Bar?

CB: It was very difficult to build up trade in the initial instance when we took it over because there was so much trouble in the first term with a selection of Bar Managers coming and going, and various acts of vandalism and wanton destruction. With the Bar boycott occurring it drove a lot of custom away in the first place, but ever since we took over in January there has been a general increase in the number of people coming to the Bar. It has actually generated enough money for us to be able to forecast that we will be able to build up the Lounge and have a more social area instead of a 'hacks' bar.

FELIX: This year has been one of considerable change around IC. One aspect of this has been the arrival of a new Rector. What is your opinion of Professor Ash so far?

CB: My opinion of the Rector is that he's a very, very keen, well-motivated and well-meaning person. He was a student at this College and he has various ideas of how it was then, and he has been trying to learn what's actually happening now. He's visited all the residences as far as possible in the time available, and he's visited all the departments. He has taken a very active interest in academic standards and in teaching. He wants to see things changing for the better. He doesn't want to see us rest on our laurels.

FELIX: At the AGM your annual report was referred back and you are not writing a new one, I believe...

CB: I was quite glad to see that people were there trying to uphold their beliefs and disagree with what I said. It makes a great change. When people don't even bother turning up to criticise what you've

said—because, I mean, it was my viewpoint and if people disagree with it strongly, which they did, and were willing to stand up for their own viewpoint and get mine defeated then that's a good thing. I've put in my Council report the same AGM report with the offending articles removed, so there would be a record of what I thought the year had been like, because the majority of the report was accurate and valid in my view.

FELIX: You've awarded four UGAs this year, but not to either of the other Union Sabbatical Officers. Is this a sign that you are at all dissatisfied with the performances of Dave Kingston and Quentin Fontana?

CB: This is not the case at all. My view of the Union General Award is that it is the greatest award the Union can give, and it is for services which go past one single year. It is an award for services in all your time at College. For one year's work I feel the UGA would be undervalued.

FELIX: Council has yet to make a decision on whether or not to award a UGA to yourself. Do you feel that some members

of Council have not fully appreciated the efforts you have made this year?

CB: That might have been my fault for not communicating as well as I could have what I'd been doing, but it's very difficult to do so. You have to balance up the time you've got to write a report and the time you spend doing other things. Either you spend more time writing a report and then you detract from the time you get to do something you need to do, or you leave something out of your report and do things but don't report them.

FELIX: What do you feel have been your main failings as President this year.

CB: My main failing has been a lack of communication; I haven't been able to communicate properly with the student body, I don't think. I have been able to get on well with the people in the Sherfield Building and express my points very well and succinctly, but I haven't been able to express myself properly, both on paper and at UGM's and Council.

FELIX: College Assistant Secretary Michael Arthur has expressed some alarm recently over the misuse of supermarket trolleys around College. Do you share his concern?

CB: I think Michael's just over-reacting. It's so ridiculous. Everybody's been using trolleys since time immemorial. You find them everywhere, all over the street. You don't even have to take them from Waitrose. I mean, they're the most convenient mode of transport even for the Estates workers. You couldn't do without trolleys here. I think it's a classic over-reaction.

FELIX: Finally, Carl, what is your most prominent memory of your time at IC?

CB: I can't remember.



NEWS

review

FELIX looks back at the stories which made the headlines most consistently this year.

The early part of this year was dominated by the struggle for control of the Union Building. For the first few weeks of the autumn term the front pages of FELIX lead with the moves to takeover the Union Bar. Towards Christmas negotiations between College administration and IC Union over other areas of the Union building made most of the headlines.

Before term began there was a dispute over a rise in bar prices, introduced by Refectory Manager Rob Northey. Union representatives objected and were able to negotiate a few reductions. Trouble flared in Freshers' week when Union barmen Doug Armstrong and Brian Ellison resigned because of a disagreement with Mr Northey

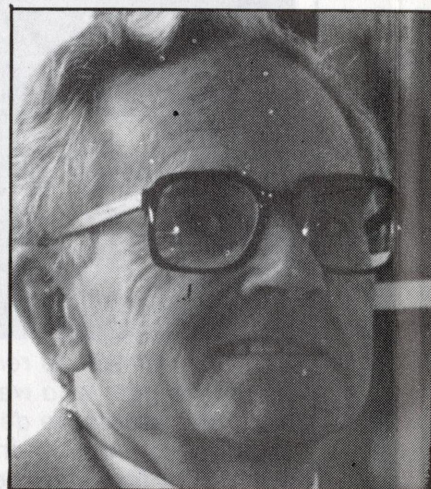
over the running of the bar at the New Year Party. Student bar staff reacted angrily when the two regular barmen were prevented from working their one month's notice. The day after the resignations the first Union General Meeting of term backed a proposal for a one week boycott of all the College bars in protest against Mr Northey's management. Union President Carl Burgess put forward the view that the Union should try to takeover the bar, though he was later able to deny that the boycott was planned to help the Union gain control. The boycott itself was well supported, with only a handful of students choosing to drink in any of the College bars.

College Secretary John Smith

agreed to investigate the possibility of a takeover but immediately suggested that the issue should be discussed in 'a wider context' and said that the use of other rooms would also be considered. Mr Smith prepared a draft document on the takeover which was submitted and approved at a meeting of College House Committee on November 6. Though Mr Smith presented the paper jointly with Mr Burgess the original draft was submitted unaltered, after Mr Burgess had decided to ignore amendments suggested by other senior Union Officers. On the day after House Committee met, Mr Smith sent Mr Burgess a letter saying that it was the College's intention to transfer control of the Botany-Zoology Common Room and the Lounge to the Biology Department. At the next meeting of ICU Council Mr Burgess was attacked for not publicising the details of Mr Smith's letter before Council met. He was also criticised for failing to implement the suggested changes to the plans for the bar takeover. Council instructed Mr Burgess to make it known to College administration that the transfer of the rooms did not have Union approval, and to ask that plans for the bar takeover be halted until the matter had been resolved.

Towards the end of the term, College agreed that the Union Dining Hall and Senior Common Room should be used by the Biology Department as seminar rooms, but should remain in Union control. Just before Christmas it was agreed that there would be a phased takeover of the Union Bar, beginning on January 1 and being finalised on July 1. These schemes were approved by Council.

Following the resignations of Doug Armstrong and Brian Ellison there was a series of personnel changes in the Union Bar. Mr Northey first appointed Mr Tony McVey, who had previously worked in the refectories, as Bar Manager. Only two weeks after being appointed, however, Mr McVey was dismissed for failing to open the bar on Saturday night. Mr McVey told FELIX that he had been ill with a form of food poisoning. Former student Dave



The bar takeover must be discussed in a wider context

Brennan was then made Bar Manager, only to resign in the penultimate week of term after losing £100 of takings. The current Manager, Mr Moore Lyttle, was appointed when the Union took control of the bar in January.

Another story to make news early in the year was the decision of the Sabbatical Officers to ban this year's Rag Mag. Union Sabbaticals are entrusted with the right to censor the Rag Mag, but only a portion of the paste-ups were checked before the publication was sent to be printed. President Carl Burgess stepped in to prevent the sale of the Rag Mag when it was returned from the printers, a decision which potentially wasted the £1500 spent on the Rag Mag. A motion to reverse the ban was upheld at the first UGM of the



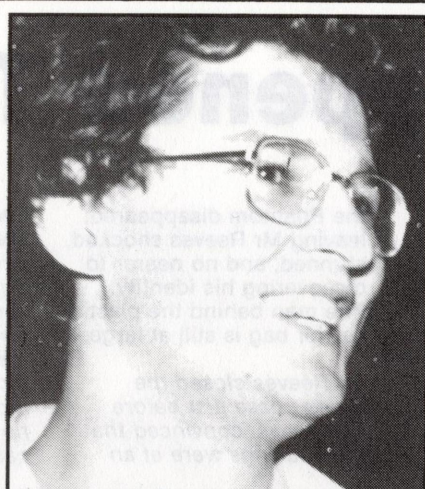
Professor Manny Lehman

year, however, and Mr Burgess was censured for failing to edit the most offensive material.

The involvement of Imperial College academics in the US Strategic Defence Initiative ('Star Wars') has been featured regularly this year. In October it was discovered that Emeritus Professor Manny Lehman of the Computing Department had signed a contract to work on SDI. Professor Lehman said that he thought the US system was impossible because software of sufficient size and complexity could not be built, but that his research would have enormous benefits for society. Most of the other DOC academics disagreed and sent a

petition to the Prime Minister and the Financial Times, dissociating themselves from the project. Professor Bruce Sayers, Head of DOC, did not sign the petition but said that he thought SDI would not work and that the research might divert resources away from other projects. Towards the end of the spring term, FELIX lead with an exclusive story explaining how US officials connected with SDI might be empowered to classify British research projects as a result of an agreement signed by US Defence Secretary Caspar Weinberger and former Secretary of State for Defence Michael Heseltine. More recently Mr George Gallagher-Daggitt of the Ministry of Defence wrote to all British universities encouraging applications for Star Wars research contracts, giving the assurance that there was no danger of research work being classified. As yet only three academics from IC are understood to be chasing SDI contracts.

In January many of IC's administrative and academic staff supported the national day of action, organised by the Association of University Teachers and the National Association of Local Government Officers, and took part in the one-day strike. The AUT was protesting against the Government's poor funding of Higher Education and was striking for the first time in its history. The day of action was acclaimed as very successful and received the support of IC Union and of the Rector, Professor Ash. ICU organised its own day of protest on January 24 in response to the announcement of a 2% increase in next year's student grant and the withdrawal of students' eligibility to claim benefits during short vacations.



You know why they like me at ULU?

No Dave?!

Well it's because they can see I've been doing two jobs. I've been doing both the President's job and the Deputy President's job.

This coincided with student demonstrations instigated by the NUS all over the country.

Problems in Southside Halls were again in the news this year. In the first term residents of Selkirk and Tizard Halls opposed plans to convert a small number of rooms into staircase kitchens. Building work which was required to bring the halls into line with fire

able to continue to provide its present level of financial support. Other London Colleges have since agreed to share the cost of the service more fully. Though the details have yet to be finalised, College Assistant Secretary Michael Arthur has given the assurance that the service will not be closed down.

Recent items of news have

Meeting referred back the annual reports written by President Carl Burgess and Deputy President Dave Kingston.

Finally, it appears that this will be the last term-time FELIX is produced in the present office. College's intention to move the FELIX office was first made known shortly after Christmas, when the move was proposed as a



FELIX staff say goodbye to their office

regulations has gone ahead as planned, however.

The future of West London Nightline looked in doubt last year after College administration announced that IC would not be

included the announcement of a prospective merger with St Mary's Medical School and the occupation of the Libyan Consulate in Princes Gardens by student squatters. Last month the Union Annual General

long-term solution to satisfy the space needs of the Biology department, instead of using the UDH and SCR as seminar rooms. Though Council supported FELIX editor Hugh Southey's objections to a move of the office, the financial compensation which College administration are offering makes the move difficult to resist. The Union cannot afford the reinvestment which is desperately needed if the Print Unit is to survive. After 12 years on this site FELIX is now close to agreeing a final version of the plans for a new office in the kitchen area behind the Lounge.

SEXUAL REPRODUCTION OF THE COATHANGER

a) Two coathangerasomes meet.

b) Fusion.

c) Parent coathangerasomes split off.

d) Parent coathangerasomes kiss goodbye and go off to commit incest with their daughters!

BANNED

THE SCIENTIFIC REVELATION OF THE DECADE! OVER 1 MILLION COPIES SOLD!

NEWS

review

Whatever Happened To...?

On Friday October 18th FELIX printed a letter from Dr R Benodekar, a research assistant in Mechanical Engineering. Dr Benodekar wrote 'Whosoever did the act of cowardice of throwing a carrier bag full of water on me, on Tuesday the 8th October in the gents toilet on the 7th floor of Mech Eng at 14.00 should come forward and let me know what his intentions were'. These two innocuous column inches announced the arrival of a College personality whose identity is still not known. For a few short weeks the 'Phantom Soaker' was the most dreaded man in College.

By the time FELIX was published on Friday October 25 there had been 3 more confirmed soakings, all in the Physics Department. It then came to light that the Phantom had been operating since mid-September, and 30 'strikes' had already been reported, largely in the Sherfield Building. FELIX received a letter, signed by the Phantom, claiming responsibility for the soaking of Dr Benodekar.

Chief Security Officer Geoffrey Reeves was initially reluctant to say what schemes were being put into action to catch the phantom, and only commented that he was concerned for his mental health. This situation changed one week later when Mr Reeves himself became the next Soaker victim. He told FELIX that £50 of his clothing had been damaged by the Soaker and announced his intention to make the culprit pay for the damage. Mr Reeves channelled all the available manpower into the hunt for the Soaker and took charge of the investigation personally but still drew a blank. A second letter was sent to the FELIX office, ridiculing the efforts made to catch him and naming Tuesday November 19 as the date of his next strike. Though the handwriting was different from that in the previous letter, Mr Reeves was convinced that they were written by the same person. On November 19 the College was rocked by the

news that ICU President Carl Burgess had been soaked in the Sherfield lavatories. This was later discovered to be a hoax soak, however, and was not attributed to the Phantom.

By the end of November the soakings had ceased. As mysteriously as he had begun his reign of terror,

the Phantom disappeared, leaving Mr Reeves shocked, stunned, and no nearer to discovering his identity. The man behind the plastic carrier bag is still at large.

Mr Reeves closed the Soaker case just before Christmas, convinced that the soakings were at an

end. FELIX moles were able to infiltrate the inner circles of the IC security organisation and gain access to Mr Reeves' files. The extract printed here is a list of suspects drawn up by Mr Reeves and gives an indication of the progress he had made when the case was closed.

Soaker File

JOHN SMOOTH

College typist. Not to be trusted. Never answers a question directly and can talk his way out of any situation.



ELLEN SHERFIELD

Posing as Rector's personal assistant, in truth the mastermind behind College administration. Approach with caution.



ALAN RIDICULOUS

No sense of humour. Takes the Sabbaticals seriously and likes to think his name is Ludovic Kennedy.



ROGER PATRONISING

A windbag. Likes seeing his picture in print and takes cold showers every morning. Believes in God.



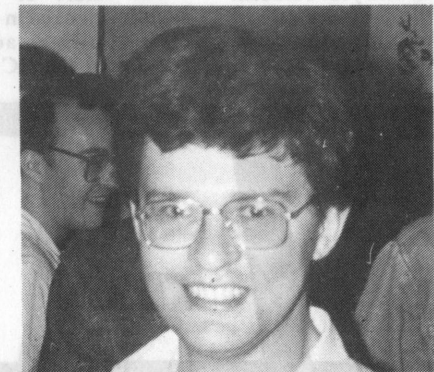
MICHAEL ANGELO

A yes man. Power-mad but too dim-witted to get anywhere. Doesn't realise he is being moved from job to job until a post is found where he can do no harm.



DAVE KINGSIZEIDIOT

A fruitcake.



Politics Of SDI

Hassled(?) FELIX Reporter Bill 'R2D2' Goodwin takes a look at some of the political concerns.

The Strategic Defence Initiative, more commonly known as Star Wars, is a huge project comparable in size to the Apollo programme. With an annual budget of \$3 billion, it brings together hundreds of scientific disciplines in a research programme which aims to make nuclear weapons 'obsolete and redundant'. Not surprisingly, it has raised a great many questions. Academics wonder how much money they can squeeze from the USA. Whether they will be able to publish work that they do for SDI, and whether American firms will be able to 'rip off' British ideas. Peace groups worry that the deployment of SDI will bring about the end of the ABM (Anti-Ballistic Missile) treaty and will cause an escalation in the arms race, or whether SDI will provide a Soviet first strike, scientists wonder if SDI will work at all, and politicians are concerned that the whole project may be a waste of money. As Tam Dalyell MP told FELIX 'Universities such as IC and Herriot Watt must make up their mind whether they want American gold more than the failure to participate in a reckless and unpeaceful programme'.

In December 1985 Micheal Heseltine and Casper Weinburger signed an agreement known as the Memorandum of Understanding (MOU) outlining British involvement in SDI. The document has been declared secret in perpetuity.

Since then West Germany and Israel have joined the Star Wars programme. They too, have their own MOU agreements.

POT OF GOLD ?

One of the myths concerning SDI is that the Americans will be handing over a 'pot of gold'. Before the MOU was signed Heseltine was trying to obtain contracts of \$1.5 billion for the UK based on a list of 18 research areas.

As the negotiations proceeded', said Sandy Verscvow of the US Embassy, 'It was recognised that the US could not set aside money for any one country'. As a result Britain will receive from 7 to 10 industrial contracts worth an estimated \$30 million. It will also have to compete for projects in the next round of research. 'Heseltine expressed chagrin at the number of contracts', admitted Mr Verscvow.

The UK, though has been given one exclusive project: the 'European Computer Architecture' study, worth £7.2m. The study will consider 'The scientific and technological possibilities and obstacles to building SDI'. The program will, if successful give Britain the leading edge in the competition for the next research phase.

CLASSIFICATION ?

The secret nature of the MOU has aroused much speculation. British researchers are concerned that they may be prevented from publishing any SDI work they do, and they wonder what protection they have against American firms 'ripping off' their ideas. University academics are particularly concerned as their careers depend on them publishing their findings. The concept has been given the buzz words 'Intellectual Property Right' or IPR. At the hub of the problem is the question can the Americans apply American law in Britain? The question has become known as the 'extraterritoriality' debate. According to the Defence Procurement Minister John Lee 'Depending on the nature of the contractual arrangements applicable to each piece of work placed in the UK, either US or UK law may apply.' In cases where extraterritoriality does apply the US may have the right to classify work at any time. Whether they will apply pressure on British researchers in the same way that pressure was placed on an American Academic, Andrew Sessler, to keep his research quiet during a non-classified project on electron beams,

is a matter for debate. As Mr Verscvow pointed out 'one should not make judgements on individual cases.'

THE MCTL

The Pentagon's attempts to keep technology from the Russians have led to the institution of the Military Critical Technology List (MCTL). Technology placed on the list is subject to restrictions to prevent it from falling into the hands of the Soviet Union. In February a stir was caused when Clarence Robinson arrived in Britain on a contract to place British technology on the list, without the knowledge of the British Government. (See FELIX No 733).

Academics at IC were worried that their work would be placed on the list with the result that they would be prevented from publishing. As it turned out Mr Robinson was refused access to classified work at GEC and Aerospace by Mr Hambleton of the MOD (who was later moved to a different job). Finally Mr Robinson was thrown out of Britain by the US Embassy. The fact that the Pentagon felt they had the right to look at British Research, because of the MOU, has caused people such as Paddy Ashdown MP to postulate that the British Government has been 'hoodwinked'.

Four months earlier in November, American representatives visited Imperial itself. A group from United Technologies arrived to inquire about the areas of research in which IC was a world leader. A later visit by representatives from the Pentagon was cancelled when academics from IC sent a letter to Mrs Thatcher condemning SDI research, according to Richard Ennals, who resigned from IC in protest over SDI.

THE MOU

Fears were aroused when the German MOU was leaked to the press. The US, it said, had been given ultimate control over classification in Germany. It was thought that the British MOU might contain similar statements. As it turned out the British agreement was much more favourable.

The British MOU was put together in a hurry, late at night, and has been described by one of the negotiators as a 'very ideosyncratic document'. Even so, the British Government is said to be

pleased with the deal.

Sources who have seen the MOU have told FELIX that it contains details of mutual defence arrangements, nuclear weapons, NATO and general treaty obligations, although this is denied at the American Embassy. The document has been kept secret at American insistence, but has been shown to companies such as Marconi who are deemed to be trustworthy. The MOD's SDI office is prepared to show the MOU to people it considers trustworthy in universities, according to a former director.

Two clauses are of particular interest to academics. The first gives British researchers a veto over the American use of British work. The second is a proviso that the US companies sign an agreement not to rip off British work. Richard Ennals told FELIX, however, that he felt the clauses were 'not worth the paper they are written on'. He pointed out that British academics could not refer to the clauses in a court of law given the fact that they are secret and the academics in theory would not know of their existence.

WILL SDI WORK ?

The task of producing an effective missile defence system is at the very least difficult. There have been several studies designed just to show how difficult. One such study by the Massachusetts Institute of Technology, concluded that the equipment and fuel necessary for a space based chemical laser system would take ten space shuttles making three trips a year three thousand years to assemble. A ground based system on the other hand would use 60% of the US power supply. Perhaps the most dubious aspect is that of computing. David Parnas of the SDIO Panel on Computing in Support of Battle Management resigned his position in protest against SDI, had produced a lengthy document explaining why the computing side of SDI won't work. The difficulty lies in producing ten million lines of error free code, bearing in mind that one error could mean the start of a nuclear war.

CREDITS: Special thanks to Paul Walton, Paddy Ashdown, Andy, Pete and the US Embassy.

Simon Singh Replies

In last week's FELIX Physics Dep Rep Simon Singh was attacked by Anon of Ibid in his column 'A Sideways Look'. This week Mr Singh responds. Take it away Simon....

Last week's FELIX contained an article which raised several points concerning the setting up and funding of a new Physics departmental student common room. Hopefully, the following brief paragraphs will put people's minds at rest concerning the common room as many of the conclusions stated were either illogical or else based on false information.

Anon of Ibid's first statement claims that the Physics Department is only prepared to fund the student common room in order 'to appease the seething masses' by 'doing very little'. The Department is in fact investing £2000 in the common room venture and to suggest that members of academic staff are willing to throw £2000 at undergraduates in order to keep them happy is foolish and naïve. The quantity of money in question is approximately one quarter of the budget of any of the CCUs. We are not dealing with petty cash but rather in terms of a major Departmental donation. The Physics department has already subsidised student publications, parties, discos and sporting events. Its reputation in the College is high with respect to student welfare and it really has no need for a cosmetic approach to student politics.

Anon of Ibid states that the common room is an insufficient facility, bearing in mind that the department has 600 undergraduates. This is true! But in a time when other departments are losing their common rooms and postgraduate facilities are also disappearing surely it is better to have some kind of common room than none at all. Over three quarters of first and second year undergraduates were in favour of spending any available money on new common room facilities as opposed to computers, library books or laboratory equipment.

The major conclusion of last week's article was the claim that the whole common room venture was a clever political ploy on my behalf to win the RCS presidential election. The election was on March 3rd. The common room was not given the go ahead until the following term and was not announced in FELIX until May 5th, nor in Schrödingers Cat (Physics newsletter) until May 9th. Despite the many talents of the students in RCS, I am afraid clairvoyance, telepathy and the ability to predict are still alien to most undergraduates. Why does last week's author find it necessary to view any achievement as suspicious and motivated by selfishness?...surely this is judgement at its most perverse.

Lastly, although criticising Dep Reps is the right of every member of the Union taking anonymous potshots at innocent first year Academic Reps is a contemptable act.

Well....sorry to have babbled on for so long on a subject which is relevant only to physicists but I am

afraid that until people realise that FELIX is not the place for petty personal vendettas, there is little else that can be done.

Dep Reps as a whole have had a pretty poor image over the past year. Dave Kingston described us collectively as a 'rabble' in his annual report and there have been many criticisms of poor attendance by Dep Reps at important Union committee meetings. What has been going wrong?

Dep Reps are essentially dedicated to departmental issues concerning their 'constituents' and they are often the first direct contact freshers have with ICU or the CCUs. In many ways the Dep Rep is the ideal person to purvey all that is good about student unions. But in many departments the Dep Rep is seen to be an isolated figure, who isn't really fully integrated into the Union hierarchy....a rather queer animal with no real place amongst 'the real hacks'.

Most IC Union posts are held by IC Union 'hacks'. A friendly bunch of students who work damn hard on our behalf. These people have to work together and regularly meet up socially. Often election to such position is from within the ranks, and at least in this way students can be assured that a sensible approach is taken to the job in question. A similar system works within the CCUs. Dep Reps are an anomaly in the electoral procedure. They tend to be faces familiar within the

department but generally unknown outside that particular environment. Consequently when attending major Union committees it is easy for Dep Reps to feel intimidated and isolated. They don't feel confident enough to sit with the ICU or CCU hacks and Dep Reps rarely know each other well enough to form their own cliques.

I know Christine Taig is keen to nurture Dep Rep involvement next year and hopefully I can do my best to get RCS Dep Reps in particular to act as a unit. Dep Reps actually represent us on Council in the most direct manner possible. Their influence and responsibilities next year could be significant. With Dep Reps having a higher profile Academic and Social Reps would immediately benefit from working with an influential Council member, perhaps with a College-wide reputation.

I have spent the last year as Dep Rep for 600 undergraduates and 150 postgraduates. It's been great fun and very rewarding. I was fortunate to know a few other Council members before I began.....had I not perhaps things would have been different!!!

Simon Singh
ps Should Anon of Ibid be prepared to reveal his/her identity I would be most pleased to meet him/her in open debate. I am sure that the students of IC would appreciate a good old bitching session!!

my times on the tube....



Catching the tube always seemed to be the most tiresome part of the day....

- by Adrian Sellers -

reviews

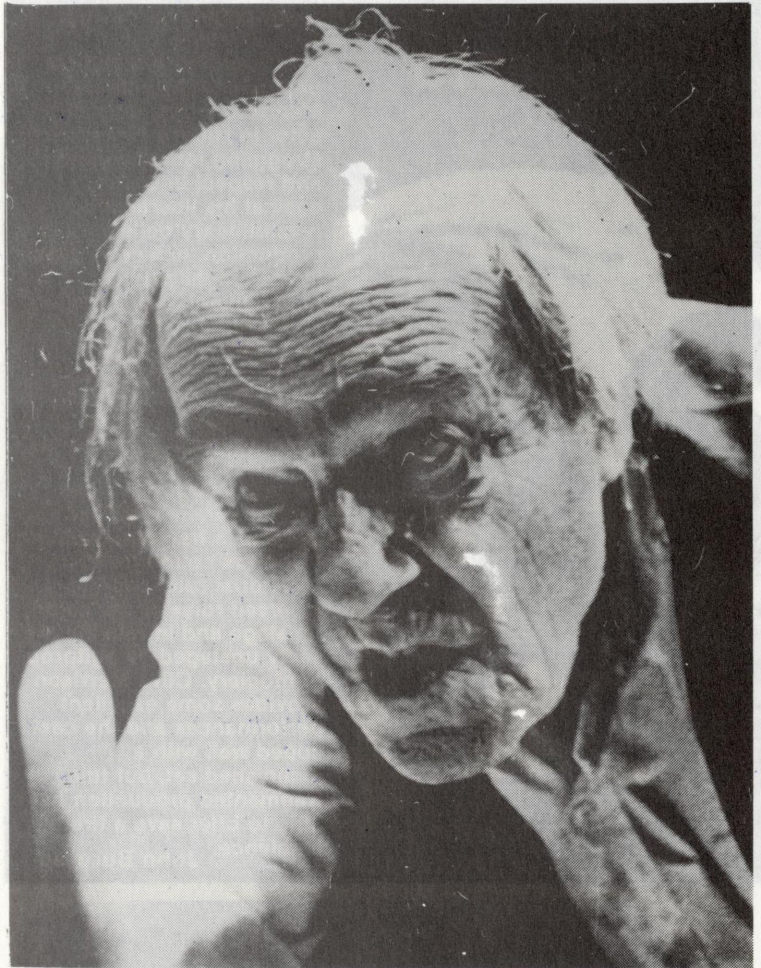
For a man of some 78 years, Max Wall is a remarkably sharp and assertive actor and by his own admission, reluctant to perform when he is past his best. **Krapp's Last Tape** is his new production at the Riverside Studios, part of a tribute to Samuel Beckett on his eightieth birthday. Although it has been ten years since Wall last performed the piece, of all Beckett's plays **Krapp's Last Tape** will be the one for which he is most remembered; he chooses to reflect as much upon his own varied career as Krapp does over his 'Lost Love'; 'perhaps my best years are gone, but I wouldn't want them back, not with the fire in me now'.

Krapp's Last Tape is a short play for one man and a tape recorder. Krapp, listens to recordings of himself as a younger man: the death of his mother and his lover; little changes for Krapp; more regretful, perhaps, but thirty years on, there is little that he would want or need to add to his testimonies. The tapes are the same as those used ten years previously, and Wall, a decade on gives a performance as precise and as genuine as these recordings; but with an even deeper sense of regret.

Endgame is the second part of Riverside's tribute to

Beckett. The play is set in a precisely circular room, in which lives Clov, Hamm and his parents, each confined to a dustbin. They while away their time, 'making progress' towards some unspecified objective about which they know nothing, except that it will be reached, and shortly. Clov, spying the arrival of some character through a window, prepares to leave Hamm, but never moves. The scene is abandoned; unfinished and unending as a circle. The director Charlie Hanson, sees fit to forego any novelties and concentrates on the malignant aspect of Beckett's work: its Irish humour. 'The meaning speaks for itself in the words of the play', says Hanson. More importantly the company has reinterpreted the way in which they are spoken to suit as wide an audience as possible through the use of comedy. Using a completely Irish cast, (except Sylvester Moran as Hamm), Hanson has made **Endgame** into a lightweight and lucid piece and yet, surprisingly, it still has that sense of sober order characteristic of its time. This production is a perfect tribute to one of the greatest playwrights of this century.

John Burgess



MAX WALL

'I only do Beckett plays now I don't think the others are any good'



ROAD by Jim Cartwright at The Royal Court until July 5th

Road is the best production that I have seen. It is fatuous to be clever with words and try and detail all that this unique experience offers; accept that **Road** is brilliant, and go.

'Down Road', a street in a small Lancashire town, you move through the painful and humorous lives of those who live there. Buy some chips, watch an old lady putting on her lipstick, a skinhead freaking out about fighting, two young people who just give up and die, or just dance with Scullery (Edward Tudor-pole). 'You'll meet all-sorts', for **Road** allows you to walk with the cast, to become part of the experience and so get closer to it. But **Road** is not something tangible that can be described, it must be felt, like it is by those involved; for the cast aren't acting, they're being.

'If you're ever in the area call again.' I'm going to see **Road** again and again and again....
Simon Lewis

Mephisto



The extraordinary thing about *Mephisto* is that, no matter how many productions I attend, I can never remember having seen it before. Bill Alexander's production is particularly forgettable. *Mephisto* is the story of an actor in Hitler's Germany, struggling for recognition and respect in Berlin, against his liberal and revolutionary beliefs. This production, however, does little to highlight his predicament, but shifts the emphasis of the play towards surrounding events. The result is that whilst the play movingly documents the demise of revolutionary theatre in the years preceding the Second World War, the central parallels between Marlowe's tragedy, Faust in a soulless country under dictatorial rule, and the reversed roles of the actor on stage and in real life are sadly upstaged by agitprop tomfoolery. Clive Merrison provides some excellent performances and the cast coped well with a diminished set, but this fragmented production has little to offer save a tired ambience.

John Burgess

The Golden Oriole

The Golden Oriole by H E Bates is a beautiful and enchanting book of five love stories, each in its own way extraordinary. The people are described as 'unremarkable' in the blurb, but every central character in this quintet is an oddball. There is the man whose true love is a Rhode Island Red Hen, Georgina; who roosts in the front room harmonium. Fed on whiskey with coffee beans and cream mash, the hen is eventually ousted by an equally hennish widow from across the road.

If you think that's normal, there is always the woman who hides from her husband every night when he comes home from the office, waiting to be found by him, and yet he has never seen her naked. Then there is 'The Quiet Girl', a seamstress, who almost through her quietness and lassitude gets a lover, then goes out and gets another, before the third, and most disturbing, man in her life arrives.

The other two stories

both involve young men, the first seeking freedom from the memory of his father's death. The other, a philosophy student from Oxford, hitchhikes a ride from a parasitic lorry driver, who seems to have understanding relationships with most of the women who live alongside the A4.

All these stories emphasise how much human activity is a blind delving for love of any kind. They are truly exquisite stories, with tone, rhythm, detail and character, and yet sad, as the mortal love these people have is only transitory and it is frequently wrenched from them. Well worth the £1.95 price as the stories are so bountiful they are always good for a reread. This is published by Penguin and available from most good sized bookshops. Finally, if you hadn't noticed, it's the **2nd International Feminist Book Fortnight**, so scan Time Out, City Limits and LAM for details of feminist activities.

Sarah Kirk

Police, a French film, stars the ubiquitous Gerard Depardieu as Inspector Mangin investigating a drug ring. In the course of his daily duties he becomes involved with the girlfriend of the chief suspect and manages to convince himself, against all the evidence, that she is innocent. Too late he discovers that she is a compulsive liar. From the opening claustrophobic interrogation scene the audience is thrown into a bumper car ride through exotic characters. The acting throughout is remarkable, young Sophie Marceau is brilliant. The use of improvisation by Maurice Pialat, the director results in a plot that feels as if it is of secondary importance. However, this technique allows for some very moving performances, and **Police** is a good film and well worth seeing.

Now we get on to the brieflys. **Compromising Positions** is a comedy and with a name like that I was expecting pretty dreadful things from it especially when I discovered that the story concerns the murder of a flirtatious dentist. However, it is slowly revealed that the dentist is having affairs with virtually

every patient and further that he is involved with pornography. This was not a great film but I found it quite fresh and pretty fun, and I think I particularly enjoyed this film because it gave all the good lines to women, unusual for a Hollywood film. **Static**, (Cannon Chelsea, Electric Screen) is a very entertaining but odd film about a person who invents a 'television' that shows heaven. It has some wonderful lines: 'Good to meet you Miss Julie I hope your death is painless'. I also really liked the idea of the collection of deformed crucifixes. Go and see it and find out!

Films to look forward to over the Summer include Kunchalorsky's 'Runaway Train' (June 27), Spielberg's 'The Colour Purple' (July 11), Woody Allen's 'Hannah and her Sisters' (July 18)

Finally Jim's list of 12 of the best films to have opened this year (in no particular order): My Beautiful Laundrette, Silverado, Defence of the Realm, Colonel Redl, Jagged Edge, No Surrender, Heartbreakers, Room with a View, The Lightship, To Live and Die in LA and After Hours.

Jim Clayden



POLICE

'He doesn't want us.'

Leaving Home is a play about the family unit and how the individuals within it cope with the adversity and rejection of 'Dad' walking out on them. Described as a moving and funny play, **Leaving Home** achieves little in either direction.

Mum, son, and two daughters make up the characters found in the front room/lounge of a Northern seaside home. It is Christmas, 'Dad' has been gone for six months and one of his daughters Natalie is pregnant, the other, Greta, forceful and loud, is obsessed with finding her lost father. Colin, 'Dad's' son is a little strange, he sits at the bus stop outside of the house with a camera slung round his neck. Mum is weak and neurotic. All share in their inability to come to terms with the loss of 'Dad'; they need a patriarchal figure. Colin who knows more than he is letting on, introduces his mother to a down and out, Malcolm, who quickly takes over the role of the father figure for mother and daughter

Natalie. But Greta is determined to find out why 'Dad' left. The coincidental arrival of Emma, a potential house buyer, who thinks she recognises a picture of 'Dad', sparks off an upset which reveals that Mum and Malcolm are thinking of setting up in a new house together, that Colin has seen 'Dad' who doesn't want his family anymore. Then Malcolm has what sounds like a stroke, Natalie cries for a while, Colin shouts at Greta.....

Leaving Home is a laboured and contrived piece of writing. The audience is never presented with 'Dad's' side of the story and his family do little to explain his actions. The feeling is that perhaps he never existed at all. The plot itself is weak, unrealistic and unconvincing. **Leaving Home** tries to deal with too many emotions/problems and fails to present or cope with any of them. The actors are severely restricted as there is little for them to hang their characterisations on.

Simon Lewis



'Cameras and Babies'
Colin and Natalie
with 'Dad' behind,
and looking on....

Leaving Home by Julia
Kearsley, at The Soho
Poly Theatre until July 5th



Elaine Delmar

The Spirit of the Song-

The Donmar Warehouse,
11pm Saturday 21st June

Elaine Delmar, ably accompanied by piano, bass and drums sings from Gershwin to Fats Waller to Sondheim. This late night presentation of Jazz Cabaret is a pleasure and a privilege which will be appreciated by all.

An instrumental overture is followed by the appearance of Ms Delmar. She breaks into a soft pure voice that sings through the centre of a note and tails off into vibrato: 'Some of my best friends are the blues...'. Song after song follows, each interpreted with consummate skill and understanding: 'Windmills of your mind', 'Killing me softly', 'Sweet Georgia Brown'.

Elaine Delmar is an accomplished performer, she gives far more than her beautifully controlled voice and this or any other opportunity to see her should be acted upon.

Simon Lewis

the
last
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reviews
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ever



Sports Review of the Year

Once again it has been a very successful year for Imperial College clubs in ULU and UAU competitions.

The Hockey 1st XI became South-East champions and hence got through to the last 16 of the UAU championships and came second in the ULU league, just missing out on goal difference.

The Ladies Hockey team won promotion to the first division of the ULU league, and also won the ULU Plate.

IC Rugby 1sts won the Gutteridge Cup, for all London Colleges and Hospitals by beating St Thomas' 12-9 in the final.



The Rector trying to get a boat drunk

Once again the Boat Club were very impressive having a record year, winning 63 events to date including the Allom Cup for all UL Colleges. They also did well on the Head of the River having the best 1st and 2nd crews in the country. At the international competition in Ghent, Imperial brought home a gold, a silver and two bronzes in the various categories.

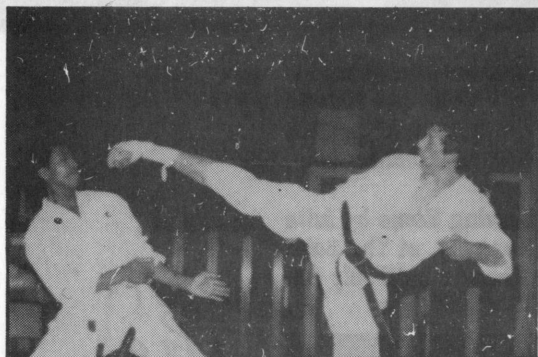
The Fencing team won the South East division of the UAU championships.

The Golf Club got through to the quarter-finals in the UAU championship by winning the SE area league before being knocked out by Durham University. As well as this two golfers were picked for the national universities squad.

would like to thank all the clubs for handing in reports throughout the year and wish them continued success next year.

Richard Ellis

WARDENS REQUIRED
There are vacancies for Wardens in the student houses from the start of next session. Applicants should be staff or student members of the College. The appointees will receive a rent free self-contained flat suitable for a couple without children in return for pastoral and disciplinary duties. Application forms and further details can be obtained from Michael Arthur Room 534/537 Sherfield Building ext 3017. Closing date: 1st August 1986.



I can see right up your trousers

The Snooker Club won the National University Tournament in Leeds.

The Karate Club also did well in their National Universities Tournament picking up silver and bronze in the displaying section.

Water-polo got through to the UAU finals and they win the FELIX award for the most incomprehensible write-ups.

Football 1sts did well in the Premier ULU division but I'm not sure how well as they haven't told me.



Spot the ball

The Badminton Club did very well winning 4 London College Leagues and coming second in two others. They also won the London Colleges knockout cup and the Ladies team were the losing finalists in the UAU championships, being narrowly beaten by Loughborough in the final.

In the London College Athletics Championships Imperial scored an easy win at Motspur Park. Also the RCS team won IC's Sports Day.

The Ski Club won the London Area Dry-slope League and hence got through to the national finals.



THE RAT RACE: HOW TO GET 48 HOURS' START.

You'll need to get in training. And we have just the programme.

Two days on our course won't just teach you business theory, it'll also teach you business practice.

We call it the 'Accountant's World' course, but don't let the name put you off. Instead of figures, you'll learn facts about taxation, computing, management consultancy and finance.

You'll examine case histories.

You'll even take part in the games that business people play. In short, ours is a two-day survival course in the corporate jungle.

Entrance is free, but not necessarily easy. (Places are limited to the best 50 applicants who will be entering their final year in October.)

The courses are held in September at Manchester and Warwick, so you'd better be quick off the mark.

For details, call Student Recruitment on 01-928 2000 or ask your Careers Office for an application form.



Ernst & Whinney
Accountants, Advisers, Consultants.

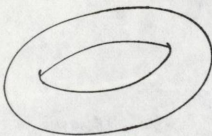
Becket House, 1 Lambeth Palace Road, London SE1 7EU. Tel: 01-928 2000.

MEGABRAIN

Odd

Some of you who've been here for a long time may remember the curious telephone system of the town of Kuratowskigrad that appeared in several puzzles by SCARMOUCHE. There is no central telephone exchange and you can only phone another house if there is an independent cable joining the houses. No cables may cross or pass under a house and each cable serves only the two houses at its ends.

The Kuratowskians have recently discovered a planet which they named Kuratowskius. Kuratowskius is odd in that it is 'toroidal' (donut or anchor-ring shaped). The Kuratowskians claim that not only does Kuratowskius have a similar telephone system to them but that every house is linked to every other house. What is the maximum number of houses on Kuratowskius and can you draw the telephone network? And if you think that's easy try proving that what you have found is the maximum number of houses possible!



Intro

Welcome to the end of year multicolour megabrain. Traditionally the last problems of the year are harder than usual and this year is no exception. These problems are very difficult. Each has a £10 prize which will be awarded to a randomly selected winner picked on Wednesday, July 2. If there are no winners by then the prizes will go to the first correct entry ever received! I'm pretty confident, though, that none of the prizes will have to be awarded-good luck!

My thanks go to everybody who's encouraged me this year and to all who've helped with ideas or puzzles. I'd especially like to thank Spock (for getting me started), Sam, Tony (for one of this week's puzzles), and all the people in my office for putting up with me.

Have a great summer!

Balls

Professor I.M. Veryintelligent, of the institute of Advance Research Studies on Equilibria, has an interesting way of torturing his students. At his house he has a snooker table that is an equilateral triangle of side 2 meters. Each year students that had done badly in their exams were invited, unsuspecting, to his house for dinner, and were then told that they would be given a pass if they could correctly solve the following. The professor would put a ball in one of the corners of the table and hit it so that the ball bounced 13 times and hit it so either of the other corners, without going into the corner. He would then ask: how far, exactly, has it travelled, assuming the ball is a point and the table is perfect? He would always claim that there was a very easy way of calculating this that would take them just five minutes, but his students never guessed it. Can you help them?

Help

Last week's Teetotal soc trip to France was a bit of a disaster. Several of the less strong willed of the group had indulged just an-ever-so little bit on the boat, and had arrived in Calais very slightly tipsy. Singing loudly they wondered off into the French countryside and were not seen again! It transpired that they had been found, unconscious and were not seen. Chartrainsunpronounceable, who abhor the consumption of alcohol and strictly punish any offenders they discover. They've managed to smuggle a message out which reads:

"Students of Imperial College, we are being held by mad monks who refuse to release us until we solve their crazy puzzle. They say we must exactly divide a rectangle into a finite number of squares, no two of which can be the same size! They say that this will prove that our minds are free of the poisons of alcohol. So we ask your help, surely with a joint effort throughout the whole College you can solve this and release us. Thank you. I know you will not hesitate to start working on this problem so please rush any solutions to the FELIX office."

Mental

On my application form for the elite high-IQ Society MENTAL there were some interesting questions. Apart from the easy questions like: calculate to the nearest ten the number of stars in the universe, design a new supersonic jet liner, explain how the weather always knows when exams have finished etc, there was this interesting puzzle. Consider a seven cornered star. There are fourteen points where straight lines meet (seven corners and seven places where lines cross-as shown). The problem was to arrange the numbers from one to fourteen on these points so that the four numbers along any straight line add up to 30. Having easily answered the other problems I found that this one was harder than it looked. So could you pass the MENTAL test? (Application forms from me).

Cold Comfort

Thermographic Measurements, a South Wirral company, has introduced the 'Chillchecker', to protect frozen and chilled goods.

It is most important that frozen foodstuffs and medical supplies should not be thawed out, and then re-frozen, before they reach their user. The Chillchecker is a self-adhesive disk that can be applied to frozen goods before freezing. The Chillchecker is then activated by pressing the centre. Once pressed, the device changes colour if subjected to temperatures above its rating. The Chillcheckers come in a range of eight bands from -17°C to +20°C, each band accurate to within $\pm 1^\circ\text{C}$.

The only problem is that the Chillcheckers cost about 50 pence each, which adds rather a lot to the price of a packet of peas.

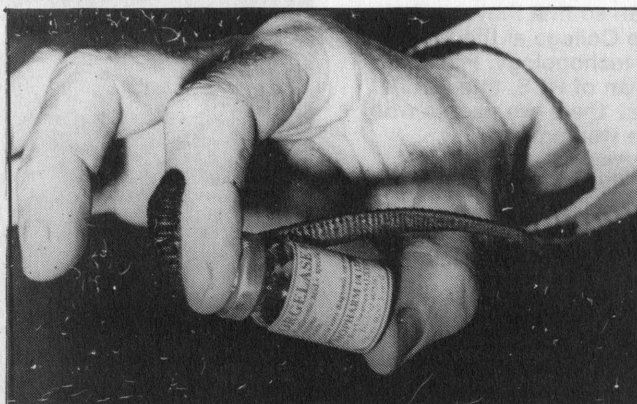
Pest Lecture

On 10 June 1986, Dr GA Norton (director of Silwood Centre of Pest Management) gave the 14th lecture in the series on *Science and public policy*, which is jointly sponsored by Imperial College and the Science Policy Research Unit. The title was *Pest management and world agriculture—research, extension and policy*. In his lecture Norton highlighted the relationship between scientific R and D and socio-economic factors. The problem is often interdisciplinary and close co-operation with farmers is essential if methods formulated are to work. In the past, however, Pest Management has often been hampered by scientific 'paradigms' eg the concept of 'integrated pest management'. It is Norton's belief that if future solutions in pest management are to be successful then a far more objective approach to the problems under consideration will be needed.

The Week In Science

Time Out Meets Tomorrow's World

World's First Leech Farm



Biopharm (UK), situated in Swansea, Wales, claims to be the only leech farm in the world. The leeches are bred in their thousands—current stocks run to about 30000—and are exported, mostly for medical use, throughout the world.

A zoologist from South Carolina established the company to provide leeches for the development of the biochemical and clinical uses of products derived from the salivary secretions of leeches.

In the course of evolution, leeches have become specially adapted to sucking mammalian blood. As a result they produce a number of pharmacologically active compounds which are secreted by their salivary glands and which facilitate their feeding off the host.

Leeches are already used in plastic surgery to restore the circulation in replanted fingers or ears, where their action depends on the active compounds released by the leech, which help restore the circulation.

NASA's Water Thrust

Despite many setbacks in space exploration in recent months, the US National Aeronautics and Space Administration (NASA) continues its research into space travel.

Ground testing of an auxiliary propulsion system for NASA's Space Station has shown that thrusters can operate for long periods without hardware degradation.

The new technology that has been developed uses electrolysis of water onboard the Space Station as the propellant source for the thrusters. Water is broken down into hydrogen and oxygen, and these gases are then burnt as fuel.

Tests have been conducted for NASA's Lewis Research Centre, Cleveland, US, by Bell Aerospace and Aerojet TechSystem. The two companies were awarded parallel contracts last year to design, fabricate and test small thrusters based on technology developed by NASA's office of aeronautics and space technology.

The thrusters ran for 22,000 seconds. NASA's Space Stations is intended to last for about 10 years, so a run of 40,000 to 60,000 seconds is the goal.

Formula Shell Puts Spark In Petrol

For many years the oil companies have claimed that their petrol contains a 'secret ingredient'. Now Shell claims to sell petrol that reduces fuel consumption, reduces exhaust emissions, cleans the engine and leads to smoother driving. In the words of the market researcher, Shell has developed a 'unique selling position'.

Formula Shell contains a cocktail of surface active agents: there is a detergent that keeps the engine clean; and there is a spark aider, a potassium compound that is deposited on the electrode of the spark plug, and leads to a stronger flame kernel in the spark.

Oil companies started adding to petrol in the 1920s, when driving

became more and more popular, the demand for petrol increased, and oil refiners had to crack heavy crude oil fractions to give petrol grade hydrocarbons.

So Shell's petrol is not unusual in that all petrols contain additives. The claim is that Formula Shell gives better performance than the competition.

Road tests have been performed over 4 million miles, using 400 different cars, old and new. The results show fuel economy increases of more than 2 per cent, and carbon monoxide exhaust emission reduced by 26 per cent. There was no spark plug fouling, no degradation in engine lubricant performance, and no toxic potassium salts in the exhaust, says Shell.

The only effective way to

control exhaust emissions, however, is by use of catalytic converters. There is the three-way converter, that renders harmless carbon monoxide, nitrogen oxides and hydrocarbons. And there is the 'leanburn' engine which allows a very high proportion of air to petrol, but still requires a catalyst to remove hydrocarbons. Whichever catalytic method is used, the petrol must be free of lead: lead poisons platinum catalysts, as well as polluting the environment. This is going to be the major challenge to oil refiners in this country, if and when Britain goes for lead-free petrol. High octane unleaded petrol is expensive to refine, and low octane unleaded petrol is expensive to burn.

Nobody in College is certain what will happen in the twenty years time. In the last twenty years the universities have gone through massive expansion following the Robins report and then contraction in recent years under the Thatcher government so nobody can realistically predict in any detail what IC will be like in fifteen or twenty years. A new political party in Government may mean a change in the level of universities' funding. As Prof Sayers, Dean of Guilds told FELIX 'anybody can guess and your guess is as good as mine.'

'because the future is hard to fortell, it isn't a good excuse for not having a plan'

The College has to attempt to overcome these problems though and plan for the future. Ever since the Jarett report on increasing efficiency in higher education, the College has been expected to have a cohesive strategy for the future. The College has a Development Planning Group which is meant to look at strategy for developing the College and there is a College plan containing submission by all of the department etc about their plans for the future. This means that one can make some general predictions about future of the College. Although as the Rector Prof Ash said 'because the future is so uncertain all planning will be subject to what actually happens next and we are quite likely to find ourselves going along paths somewhat different from those envisaged'. He added though that 'it is very important to stress that just because the future is hard to fortell, it isn't a good excuse for not having a plan'.

It seems to be generally agreed that the actual numbers of students and the balance between postgraduates and undergraduates won't change substantially. Prof Ash believes that College will expand the student numbers but will be limited to restrictions on the site. What does seem likely to

change are the research and teaching subject. As the College plan says 'new research areas and new subjects at both undergraduate and postgraduate levels must be established and encouraged'. The College plan is aimed at operating 'sufficient flexibility to allow resources to be moved from contracting to new and expanding activities'. In other words College believes that they have to plan so that they can keep the College at the forefront of technology. Prof Cole, Dean of RCS, told FELIX that 'there are people who are waiting for a

bandwagon to jump on. What makes IC a very exciting place is we do expect to create our own new bandwagons'.

There are several factors that academics fear could prevent IC remaining at the forefront of science and engineering. Firstly there is the fear that further cuts in university funding will be so damage IC that it will be unable to finance changes in the research being carried out in the College. Prof Brown, Dean of RSM said that his biggest fear for the future of IC was that 'Maggie Thatcher will be

'biggest fear for the future of IC was that 'Maggie Thatcher will be re-elected'

re-elected'. When the UGC wrote to IC several years ago, the College replied saying that

- **Level Funding** would prevent any major expansions. Any new areas of activity would mean cuts elsewhere in the College. No new 4 year courses could be developed and some areas of research 'valuable to the community' could not be pursued.
- **one percent cut for five**

all departments. If done by wastage then staff loses would be uneven and therefore in certain areas that would be no expertise and courses would have their syllabus changed.

- **Two per cent every year for five years** 80 academics staff would have to go, resulting in the closure of two medium sized departments or a natural wastage policy so severe that most undergraduate

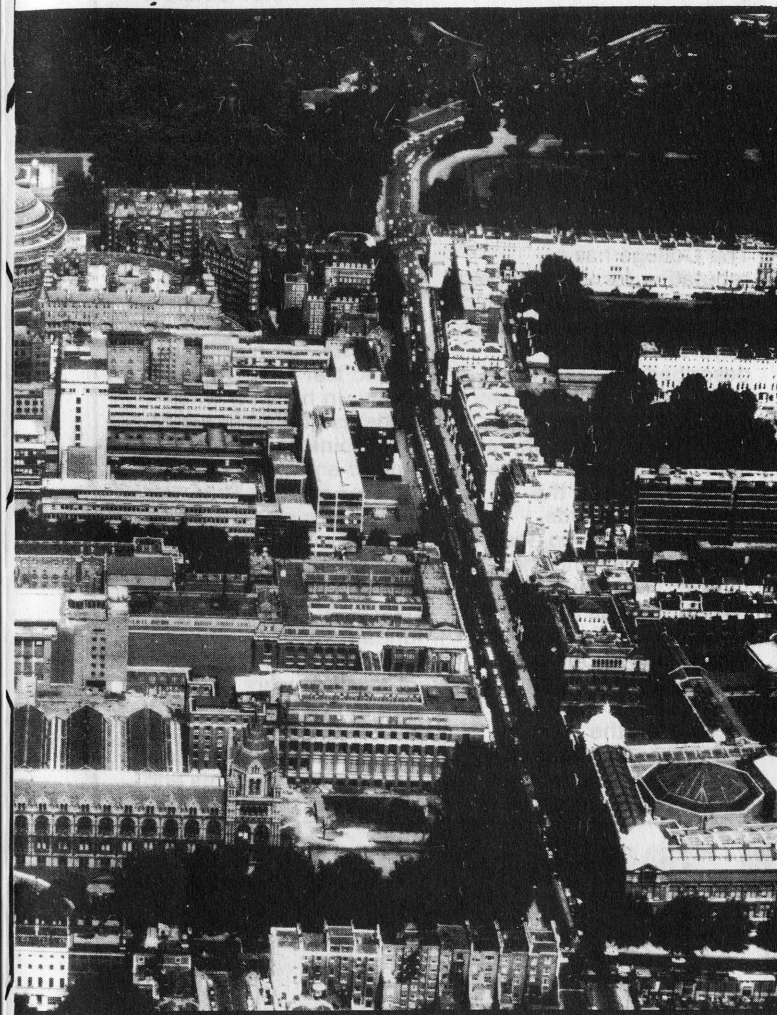
years 35 members of staff would go. This could be done by closing one medium size department or by natural wastage across

courses would have to be downgraded or even withdrawn. In addition it would be unlikely that all the College buildings could be maintained-one would have to be sold or demolished. This year the college was cut by over 3%.

Professor Ash described this year's university cuts as 'Bad, there simply isn't enough money to go round. Against that background I think that Imperial College has done really rather well....The judgement that has been made on our research puts us on the same level as Oxford, Cambridge and University College...If we were to have similar cuts for the next five years the effects would be disastrous. I think we can see the magnitude of the disaster I'd prefer to guess at the vector because that's something one would have to face if it was going to happen.'

One of the departments that seems to be most at

IC: Has It A Future



risk is that humanities department which Union President Carl Burgess expressed worry about he

statements promising increased cash for universities before he lost his job as Education

'education is an issue on which votes will depend'

fact that the humanities department was placed below average in research. 'If can't have any other outlet such as pottery, art, music, literature and such like I think it will be a poor place with poor atmosphere and people will just become mechanical robots'. Prof Cole echoed this worry. 'I think it is a pity financial constraints make associate funding so that for a little while at least we can go along on a constant income basis.'

Yet things are not as bad as they could be. Sir Keith Joseph made several

Minister.

Professor Ash along with many observers of the situation believes that more money will be available next year. 'I think it has become evident that education is an issue on which votes will depend and I believe therefore that it is probably that there will be additional funding for the universities. I hope there will be enough funding so that for a little while at least we can go along on a constant income basis.'

IC has anyway come off

better than many other universities. In the most recent load of cuts a number of universities were cut, by over 5% in real terms, and are warning that they will be bankrupted. Prof Sayers thought that IC would 'find ways round the financial issue...difficult and unpleasant though it will be and everyone will suffer'.

One way to increase income is to sell research. As Prof Cole put it 'We ought to recognise that scientific information is a commodity'. The College commissioned a report called 'Commercialization of Research At Imperial

'I am worried about the increasing pressure that there is on staff to do research for commercial purposes'

College'. From Rhys Jones Consultants. Academics, though, have expressed fear that basic fundamental research might be sacrificed. Prof Brown said 'I am worried about the increasing pressure that there is on staff to do research for commercial purposes rather than research for

.....I know that some members of the Governing Body and some administrators seem to think that is why research is done or should be done and I'm one member of the staff who's not happy about it. Prof Coles said that he was worried that industry expected universities to do research that produced marketably products within seven years and was also unwilling to pay. Prof Sayers defends for informal research. 'If we say right this is part of our duty at national level then the way in which we use our time and the way in extent to which public money is used and the extend can exploit research and do exploit our research by choice will I think fall into place'.

Professor Ash argues that this shouldn't necessarily mean a greater concentration on short term research. 'Industrial Research laboratories have

a major problems in that they can very often not look in their own laboratories at a horizon that is more than about two or three years away. It is precisely to help them to see what will happen in the next ten years that will turn to universities and this is precisely the sort of interaction that I am interested in fostering.

Which doesn't alter the fact that in engineering departments it is perfectly appropriate to be working on stimulating and creative research that will find application in the short term... most people who

have been involved in funding research realise the fact that getting money is easy. What you need to do is get money to do the things you want to do and I have great confidence in my colleagues at IC that they will succeed in doing the later'.

The other major threat to the College staying at the forefront of science and technology is pay for as everyone must know academics are paid significantly less than their counterparts in industry. For example in Petroleum Engineering academics are paid roughly half what their counterparts in industry are paid. College academics are worried even if the money was available to recruit their successors, nobody of sufficient quality would apply. They are particularly worried that although talented people may be tempted to work as academics for a short period, in the long term the limited promotion opportunities and the poor rates of pay for senior lecturers and readers will mean that few people plan to make a career in industry.

The Association Of University Teachers have recently started negotiating

with the universities to try and improve the situation. The reluctance, though, of the Government to spend extra money on universities means that it is difficult to see how the universities improve the academics pay.

College administration and departments, of course, are not the only people to have been hit by cuts. Students' grants, housing benefit, travel

IC: Has It A Future?

Continued

most of the kids that did go to College were supporting themselves-now that isn't true'.

In 1963 the Labour government of the time commissioned the Robins

'kids that did go to College were supporting themselves - now that isn't true.'

grant etc have all been savaged by the governments' cuts. Many people round the College including Prof Cole and Carl Burgess were both worried that these cuts might prevent working class students from going to university. Prof Cole said 'When I went to College parents were foregoing the income they might get from their children but at least

report. This recommended that all 18 year olds with two A-Levels should have the option of doing a degree. Within twenty four hours all three political parties had endorsed the report. Last year's government discussion document entitled 'Higher Education in 1990s and beyond modified and restricted the Robins principle saying that the

government must decide if the benefit to the taxpayer justified the cost. Most college academics believe this to be wrong and insist that the Robins principle be upheld.

One area where there seems to be prospects of real change is undergraduate teaching. The College has a reputation for low teaching standards. Many academics feel that this is unfair. Prof Sayers for example described the teaching standards as good as any university he'd been at. Carl Burgess, though, felt something needed to be done to improve the teaching standards.

In an attempt, to, look at ways of improving the teaching standards, as committee was set up, under the chairmanship of Prof Blow, to look at undergraduate studies. The first report of this committee, the Undergraduate Studies Committee, was recently published. As reported in

FELIX, this made several radical proposals including awarding certificates of excellence in teaching to lecturers based on their students assessment of their teaching; the requirement that lecturers get two such certificates before they can get promoted, the limiting of academic work to forty hours a week; the introduction of a course unit system in engineering.

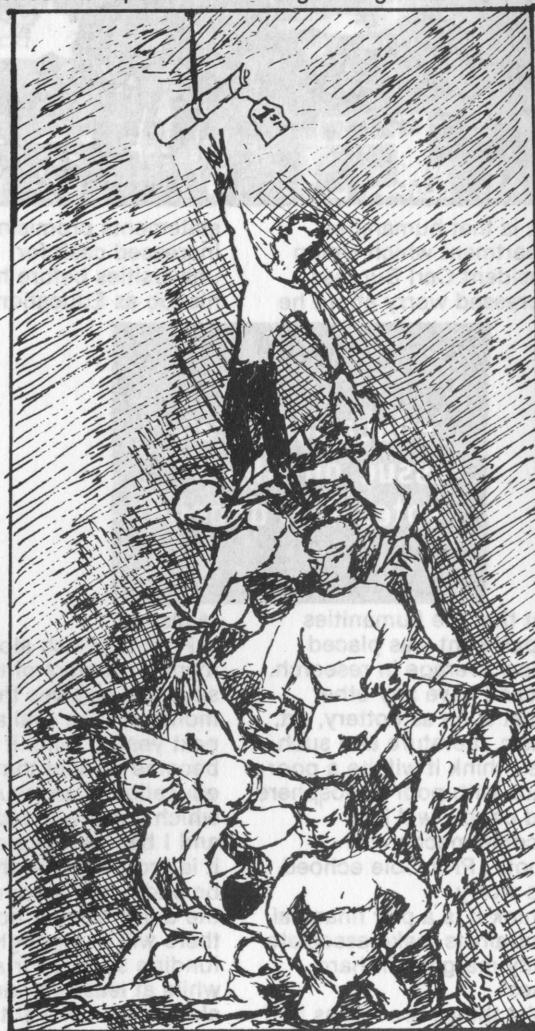
All the people interviewed by FELIX were impressed by the report. Professor Ash described it as excellent. There were, though, some criticisms of it. Prof Sayers felt that students were not the best way to test a lecturers ability. In his view when students go into industry their opinions about who is a good and who is a bad lecturer change. Prof Brown was worried that forty four hours a week was insufficient.

One area of College that seems set for very little fundamental change is the Union. Most of the people interviewed were pleased with the Union's performance and felt that it was fulfilling a dual role representing students and organising social events.

FELIX Motor Rally



Saturday 21st June at 10am
Entries of teams of four
as soon as possible



Main Events This Year

As this is the last FELIX of the year it seems appropriate to summarize our activities of this year and to look forward to next year. Our main events of this year have been.

Autumn Term

Oct Freshers week where we had our usual stall on Queens Lawn.

Nov The Houseparty at Elm Tree Farm in Kent.

Dec An evangelistic talk entitled 'Why Christmas'

Spring Term

AGM—Installation of new Committee

Jan—Official installation of Social Action Group (SAG) and a new committee post of SAG and overseas students co-ordinator.

Mini Mission (Feb)— Talks by Gareth Lewis ('Jesus the last word on God' and Roger Preece 'Jesus the last word on Man')

Summer Term

A series of talks on mission at home and overseas.

Outside our main events

we have been working in many areas some of which are in the Summer vacation many of our members are going overseas with the missionary society Johjons or getting involved in similar work in this country eg beach mission. We have increased membership and have a greater co-ordination among our Bible study Groups. We have increased our involvement with other activities in College eg ICCAG, FELIX and RAG.

We have also increased our contacts with CUS in other colleges in London and with Universities and Colleges outside London. This mainly being with UCCF (Universities and Colleges Christian Fellowship).

Looking forward to next year we have:

In September a preterm Houseparty at Marble down in Kent.

Freshers week where we

have the following activities:

- 1 Stall at Fresher's fair
- 2 Supper parties
- 3 Lunchtime talk with light refreshments.

In the Autumn term we have a series of talks on basic Christianity and on apologetics talk on peace.

Spring term a series of talks on everyday practicality of Christian life as related to students.

We also have an autumn term houseparty and we hope to continue and increase our involvement where possible in all aspects of student action and to increase our activities among overseas students.

However what we do as Christians is done only by the will of God and therefore our most important activity of the year has been our prayer groups as without these then we would have achieved nothing of any use this year.

Wine Tasting

Summer Tastings

As in previous summer holidays a number of wine tastings will be held on a regular basis. These tastings will be open to anyone in college-You don't have to have been a member of the society before. It is hoped that the tastings will be subsidised thus costing between £2.50 and £4.00. Tastings will include Chateau Cissac, 1981 clarets, Australian Char Jonnay, Mondavi Californian wines, Torres wines, etc. There is also the opportunity to attend a German Wine Festival. If you are interest at all please let Mark Masento know either through Biochem pig holes or by phoning ext 4114. Stating name and course and phone if any.

Clubs

Cycling

Hartigan Wins

Peter Hartigan fulfilled his excellent promise by winning a criterium at RAF Halton. In a display of speed and skill on a very tricky circuit, he just rode away from the rest of the field. He received strong support from Scott Heyhoe who was unlucky enough to crash badly on a gritty corner and was forced to retire when another rider rode over his arm whilst he was on the ground. Before this incident though, the two riders were easily the most aggressive in the field and Scott looked set for second place.

In another event at Reading, Wayne Morley continued his rapid improvement by returning a time of 25-49 in a 10 mile time trial.

I would like to thank the following people for their invaluable assistance in running the cycling club this year; John Gilday, Wayne Morley, Mike Colclough, Martin Farrow.

Guilds

Spanner Articles Needed

The Handbook of City and Guilds Union
We are looking for articles on any subject of general interest. Whether it's a Pub Guide or a map of the-Imperial Underground, a tour of the College Refectories or a Hackers' Guide to the Computer Center, send it to: **The Spanner Editor, City and Guilds Union, Mechanical Engineering Building.**
To all Clubs and Societies, Departmental

Societies and Departmental Representatives in City and Guilds College.

Spanner, the guide to City and Guilds College, published by the Union will be appearing in the near future. Copies are sent to all Guilds' Freshers. All Clubs and societies should have an entry, so if you haven't submitted it yet, then get on with it! Spanner is the only introduction and that Freshers will get to your club or society so

please don't miss the opportunity, get an article (with photos) done now, and also let us know the names of next year's Captains, Chairmen and Dep/Acc/Soc Reps.

We will also be pleased to accept articles on any subject that might be useful or interesting to incoming students.
Richard Davis, Publicity Officer City and Guilds Union.

Union Bar

TV now installed in the Snack Bar. Watch the World Cup while you drink.

Southside Bar

**Tomorrow: End of term party and disco
Friday: End of year party and disco**

So most of you are going home to can baked beans or to work for your sponsors on new ways of canning beans in the middle of a bog on Teesside. But there will be some who stay in London or hereabouts for whom this is the cut-out and keep/masticate/throwaway Capital Ideas.

No more Albanians, not even a passing reference to King Zog, ten-headed telephone beasts, or even the World Cup. Admit it, you're sick of football, endless Cramps gigs and what Nik Turner did next. Well here's another batch of ideas which will have you reaching for the bucket by the time you've finished the summer.

Not content with the football blitz of the past few weeks we have saturation coverage of Wimbledon '86 coming up on the box-in-the-corner. That is if you don't want to see it in real life. Seeing a match on the centre court is often tricky, but some good tennis can be seen on the peripheral courts, and it's just that bit cheaper.

If you want to watch a really relaxing sport, then there'll be plenty of cricket at the Oval (Oval tube) and at Lords (St John's Wood tube) where the test match against Pakistan is to be played this summer.

Still on the sport, away in that other capital — Edinburgh — the Commonwealth Games are being

held, as long as the rest of the Commonwealth don't boycott us for not boycotting South Africa. That little show rolls on at the end of July, to be followed by the **Edinburgh Festival**: a city-wide circus of military tattoos, concerts and some very odd plays. The Festival runs from August 10th—31st, and will probably be attended by patronising interviews with the insipid Russell Harty on television. Don't let that drone put you off, try it in real life — it costs as little as £17 to get there on the train.

The summer's a long time to be able to talk about films, but there's plenty of opportunity to recommend cinemas. The general advice is to avoid the multi-screen jobs like the Hammersmith ABC and the Cannon Chelsea which have a multitude of screens and films but very little in the way of leg-room. Surprisingly enough the Leicester Square cinemas are often much better value with 70mm screens, bouncy seats and real stereo sound. The **Empire** is well worth a mention for all these qualities, with seats ranging from £2.50—£4.50. A lot of cinemas do special reductions for Monday

all-nighters on Friday and Saturday nights at places like the **Scala** (opposite Kings Cross Station), the **Electric Screen** (Portobello Road, Ladbroke Grove tube) and the **Brixton Ritzy**. For a few smackers you can get to see four or five films all through the small hours right upto breakfast time. Don't forget your sleeping bags, flasks of coffee and supplies of food — you'll need them.



Moving onto the world of the theatre now, mainstream theatres tend to be concentrated around the West End, especially Shaftesbury Avenue and along the Strand. They tend to stick to the tried and tested formulae of conservative musicals and endless re-runs of Agatha Christie stories. However the **Royal Shakespeare Company** often do quite imaginative versions of old and new plays at the **Barbican Theatre**, which are worth at least one visit even if it is expensive.

On the other hand Fringe Theatre has a much greater range, taking in just about everybody, from reworkings of ancient Greek playwrights to first performances from up-and-coming authors. Venues which have become synonymous with Fringe Theatre, and often house some very good works are the **Donmar Warehouse** (Earlham St, Covent Garden tube), the **Lyric Studio** (King Street, Hammersmith tube) and the **Riverside Studios** (Crisp Road, Hammersmith tube).

1986 seems to be the year of the open air concert, with two at **Milton Keynes Bowl** within a week of each other. It all starts with the **Glastonbury CND Festival** from June 20th to the 22nd. Taking place at some farm near Shepton Mallet it features the **Cure**, **Level 42** and **Simply Red** (Tickets: £17). Also on the 22nd, **Simple Minds** and **Lloyd Cole** play at the **Milton Keynes Bowl** (Tickets: £12.50 plus booking fee).

Meanwhile, back at the



Anti-Apartheid Concert and Demo: "I hope that everyone who goes to the concert will go on the march first. The event may be the last of its kind." — **Jerry Dammers**

**Capital
IDEAS**

evening performances, often around £2.

The 'artier' films and the independents are catered for by places like the **Lumiere** (St Martin's Lane, Leicester Square tube), the **Metro** (Rupert St, Piccadilly tube), the **ICA** (The Mall, Charing Cross tube), and the **Roxie** (Wardour St, Piccadilly tube) — which must be one of the smallest cinemas in existence. However it does show excellent independent films in cosy surroundings.

The owls amongst you might prefer late-night films — the **Screen** on Baker St and the **Gate** (Notting Hill) doing some good 11pm onwards bills. For those with real endurance there are the

Beanfield, the Stonehenge Festival will be taking place in some form or another — if only at the Magistrate's Court in Winchester. If you've never been arrested, had your car impounded and been beaten around the head with a riot shield, then here's your big chance. Seriously, this event needs all the support it can get, unless you really want to see the country degenerate into a model of South Africa or Russia,



controlled by a set of pass laws. You can find all about it from the 'hippies' own publication, *Festival Eye*, a snip at only 70p from the FELIX Office.

A week later, once again at **Milton Keynes Bowl**, **Marillion** headline a heavy rock bash, featuring **Gary Moore**, **Magnum**, the really awful **Mama's Boys** and 'special guests', **Jethro Tull** in their new synthetic, shrink-wrapped cellophane guise (Tickets £12.00 plus booking fee).

Also on June 28th, **Sting**, **Boy George**, **Gary Kemp**, the **Communards** and **Billy Bragg** will be appearing at an **Anti-Apartheid** benefit. The free concert is to be preceded by a march from **Hyde Park**, and one of the organisers, **Jerry Dammers** said:

"The concert is for the benefit of those who take part in the march from Hyde Park which starts at 11am, and I hope that everyone who goes to the concert will go on the march first. The event may be the last of its kind because after the Police Bill goes through Parliament, things like this may not be allowed."

Not content with that lot, on the very same weekend, London is treated to the indoor **Reggae Sunsplash**. Currently on the line-up are **Alton Ellis**, the **Wailers**, **Aswad**, **Black Uhuru**, **King Sounds** and the **Israelites** (Tickets: £17). The Editor keeps on telling me it's really crucial, and feeds endless reggae tapes into the ghetto-blasters just to prove it.

Of course there's always the last **Wham!** gig ever at **Wembley Stadium** — the only problem is that it's already sold out. Bit of a shame that.

It's good old has-beens time on July 5th, with **Rod Stewart** and

ELO, also at **Wembley Stadium**, propped up by **Feargal Sharkey** and the **Blow Monkeys**. And the bad news isn't over there, it costs £15 to boot, on top of the cost of the binoculars. More has-beens follow on July 11th and 12th with **Queen** and **Status Quo** on their 76th farewell tour. The **Alarm** try to achieve rock immortality by supporting them; it's probably about the closest they'll get. If these sell out, which they look likely to do, there's another performance at **Knebworth Park** on August 9th (Tickets: £14.50 plus booking fee).

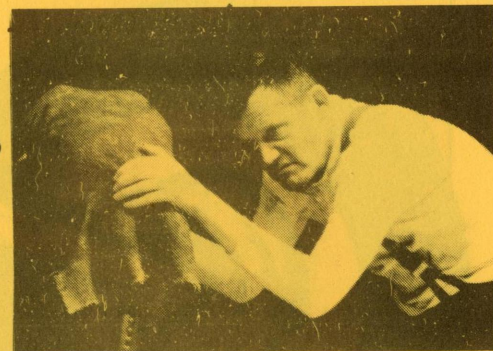
Meanwhile, back at another farm, we have **Siouxsie and the Banshees** headlining the **WOMAD Festival** (July 18th—20th, **Kenn Pier Farm**, **Clevedon**, near **Bristol**). This festival features some of the world's most innovative music-makers with mutant funk band **Chakk** and metal bashers **23 Skidoo** amongst others as the English bands.

Back in London, on July 26th and 27th we have the **Damned's 10th Anniversary Tea Party** at **Finsbury Park**. The first gig features the suddenly ubiquitous **Dr and the Medics**, **Screaming Blue Messiahs** and the **March Violets**, while the second one has the **Fall**, the **Mission** and **Pete Shelley**.

Indoor rock venues range from the awful to the really good, the problem being that some of the best bands, famous and just starting out play in the worst ones. The biggest offenders are undoubtedly **Dingwalls** and the **Hammersmith Odeon**. The first features up-and-coming bands, just about to break big, who have the problem of playing in a corridor with a bar at the back.



— avoid unless you're really desperate. The **Odeon** has all the bands that have made it while they crank up to playing the amphitheatres at **Wembley**, but it has all the charm and character of a derelict aircraft hanger. To make matters worse it is staffed by over-zealous bouncers. The best point about the **Odeon** is that it sells tickets for the cavernous dancing space of the **Hammersmith Palais**, even if the



drinks are extortionately expensive. The **Palais** is one of the few venues left of intermediate size ever since the sad passing of the **Lyceum** in **Aldwych**. When bands get so big they have to play places like **Wembley Arena** there aren't any alternatives and you just have to cope with seeing the band as pinpoints on the horizon. But at the small end of the market there is a nice selection of venues, which have the cosy cupboard atmosphere of the **Marquee** (probably the cheapest drinks at any concert) or the greater space of the **Town and Country Club**, although this one is rather expensive compared to a lot of similar venues.

Music of a different kind is offered at the **Almeida International Festival of Contemporary Music and Performance**, it's been running for a while, but doesn't finish until July 6th. **Philip Glass**, **Steve Reich** and **John Cage** are all part of the offerings, with a lot of modern Spanish music.

There's space to give the **WH Smith Cushion Concerts** another plug. For just £3 you get to go to a classical concert at the **Royal Academy of Arts** in **Piccadilly**, plus free Admission to a private viewing of the **RA's Summer Exhibition** — since that's where the concerts are held. The concerts are on Thursday, from June 26th to July 17th, the viewing is at 6:30pm and the concerts at 7:30.

And this is where **Capital Ideas** finally leaves you for the time being. Perhaps we'll be back, and perhaps we won't.