

# More rag mag damage

Anger was expressed in the National Press last week at this year's Rag Mag following a longer article published in a local Bradford paper. The Daily Star and The Daily Mirror both ran pieces condemning the inclusion of Bradford fire jokes

**Rag mag  
editor  
defends  
City fire  
sick jokes**

SICK jokes about Bradford's Valley Parade Inferno are in a magazine which has been on sale in the

in the Rag Mag (their April 16th editions).

The controversy was evidently started by John Renshaw President of Bradford

university's Student Union, who denounced the Rag Mag after last Easter's Rag tour. Mr Renshaw described the Bradford fire jokes as 'grossly offensive' and expressed his belief that 'Students in Bradford want to disown themselves from this publication and it's sick jokes'.

As well as press coverage, IC Union have received four letters of complaint concerning the racist and sexist nature of some jokes. Professor Ash told FELIX that he shares these feelings and said that he thought the Rag Mag was pathetic and that the 'overwhelming majority of (IC) students must resent it'. He also felt that the Rag Mag and the subsequent publicity it received would dissuade girls from applying to IC, and parents from allowing them to. As yet, all complaints have been received from women.

When asked to defend his position, Rag Mag Editor Tony Spencer told FELIX that not only had his Rag Mag made a profit for the first time in recent years but that they sold more magazines to Bradford students than anyone else.

Some of the money raised from the sale of the magazine will be donated to the Bradford City Disaster Appeal.

# More cuts are on the cards

Imperial College Union is supporting a campaign being run by the University of London Union (ULU) which aims to block the current Government proposals to cut student benefits.

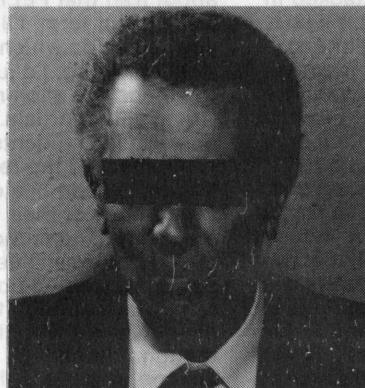
ULU has devised the campaign in conjunction with 'Camden Action On Benefits.' 10,000 protest postcards have been printed, and distributed to constituent colleges within the University, one of which is Imperial, for students to complete. They will be delivered to the House of Commons in mid-May. The proposals are currently being studied by a

government committee and will cost students at Imperial at least £200 per year. The Government claims that the 'simplifications' of the method used to calculate benefits are not cuts but merely ways of making savings on administrative costs. However the local authorities, who administer the systems on behalf of the Government, cannot give figures on exactly how much will be saved.

The cards are currently in the IC Union Office, and anyone who wants may complete one to register their opposition.

# Mystery intruder found in Southside

Following an alert to Southside Security over Easter that someone was living rough somewhere in the building a man was found sleeping in the ladies lavatory on the penthouse level. The man apprehended gave the name of an ex-IC student who is believed to have gone to Cambridge on completion of his course here, and was found in



possession of a key to that persons old room in Falmouth-Keogh. It is now believed however that the name he gave is false and that he is in fact a failed MSc student attempting to avoid being forced to return to Iran where he would be forced to fight in the war there. When questioned he admitted to stealing food from fridges. It is not known whether this incidence can be linked to the theft of mail in Falmouth-Keogh over Christmas. Don Ferguson at Student Services said it had not yet been decided whether to take any further action. It is known that the first student, believed to have gone to Cambridge, left without paying his bill or returning his key and that College have been keen to catch up with him for sometime.

## Making waves

Boats from Imperial did well at the largest rowing event in Europe, with the First VIII being the fastest in the Senior A category. Their time was only beaten by international crews. The event took place in London over the Easter break, and had a field of over 400. Full story and picture on page 12.

**The Newspaper of  
Imperial College Union**





## Editorial

### Rag Mag

In FELIX No 713 Julian Rose, a former Editor of the Aston University newspaper, described how an article in his newspaper that made fun of the Bradford fire had attracted amazingly bad publicity for Aston. He warned that the Rag Mag would attract similar bad publicity for Imperial.

Mr Rose has been proved right. National newspapers have carried articles that done serious damage to Imperial College's image. Tony Spencer, the Rag Mag Editor, may think its funny to be have his publication attacked in the national press it may, as he has suggested in the past increase sales of the Rag Mag to have it attacked in The Daily Mirror: it won't increase applications to Imperial; it won't improve our chances of getting a decent grant next year.

Applications to Imperial College are dropping dramatically. If this trend continues the value placed on your degree by industry will be lowered. Publicity about 'sick' Rag Mags will only encourage parents to send their sons and daughters to 'nice' universities like Bath and Exeter rather than 'sick' ones like Imperial.

Next year your grant is being cut in real terms (surprise, surprise). One of the reasons the Government can continually cut grants is that the public have a very low opinion of students. Their opinion will be lower when the read about the Rag Mag.

Rag is an important part of student life. Events like Rag Fete on Saturday allow students to enjoy themselves and raise

money for charity. The Rag Mag is an important part of Rag at Imperial College. Rag Mags should appeal to the student sense of humour. They shouldn't attract bad publicity for the College. Rag Mags are primarily meant to raise money for charity. This Rag Mag wouldn't have worse sales if the Bradford fire jokes had been removed.

Union President Carl Burgess had the opportunity to remove the Bradford jokes before the Rag Mag was printed. I hope Christine Taig learns by Carl's mistakes.

### Iran

In the letters page this week you will notice several letters this week attacking opinion article about Iran that FELIX printed last term. I'll leave you to decide which side is right or wrong. I'd just like to defend the anonymous writer of that article. In the past Iranian students who have attacked the regime in Iran have been beaten on the campus of their British university. The author of that article wasn't keen to risk being beaten up. They were brave enough to trust me not reveal who they are, though. I hope anyone who reads this will agree with me that anyone who, like this author, risks being beaten up to express an opinion is brave.

### Credits

Thanks to Bill Goodwin, Jane Spiegel, Kamala Sen, PETE WILSON, Mark Cottle, Gren Manuel, Jim Clayden, Simon Lewis, Sarah Kirk, Sunny Bains, Nige Atkinson, J Martin Taylor, Tony Churchill, Rosemary Hosking, Pete Rodgers, Dave Jones, Chris Edwards, Dave Rowe and anyone I've forgotten.

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## LETTERS

### Collection

A letter sent to the organisers of the collection for the man killed in Chemistry

Dear Mr Pavy and Mr James, My sister-in-law, Phyllis Breslin, has asked me to write to you on her behalf.

She greatly appreciated your thoughtful gesture in sending a floral tribute to Neil's funeral. May I mention that I personally was particularly attracted by the unusual multi-coloured design.

Needless to say, Phyllis is quite overwhelmed by the generosity of your

department in collecting the magnificent sum of £1,297.17. Please convey her heartfelt thanks to the staff and students. It is good to know that you all care so much.

Phyllis is still rather shocked and bewildered by Neil's death but no doubt time, and her two little daughters Karen and Michelle, will help her towards recovery.

Once again many, many thanks.

Yours sincerely,  
Maureen Breslin

### Barclays Again...

Dear Hugh,  
As one of the people responsible for drafting the Barclays Bank motion, which has not yet been debated at a UGM, I would like to comment on several points raised by John Martin's letter in FELIX 736

I would firstly like to know what 'far-reaching reforms' have been implemented, or proposed by President Botha in South Africa. Perhaps Mr Martin refers to the introduction of the coloured and Indian houses of parliament set up to advise the white house on matters relating to the coloured and Indian communities; the election for which had the support of less than 18% of the electorate in each case. The black community which accounts for just over 70% of the population still had no say whatsoever in the government of South Africa. Perhaps, instead, he meant the repeal of the law banning inter-social sex, which means that black and white South Africans can now marry each other, although because of the Group Areas Act, they are not allowed to live in the same part of town.

Even the proposed abolition of the pass laws, which prevent black South Africans from being in any part of the country unless they have a stamp to prove they live or work there, represents little more than a political sleight of hand. The 'orderly urbanisations' system which is due to replace them will have as its only stipulation for urban right the condition that an individual must have accommodation. That condition alone smacks of

the influx control which is supposedly being abolished. Apartheid cannot be reformed, modernised or streamlined; it needs to be completely dismantled.

The only reason that apartheid has survived for so long is because of the massive financial support for South Africa from the international community. Unless this support is cut, there will be no incentive for the white community in South Africa to mend its ways. Therefore the best way that we outside of the country can oppose apartheid is to, as Mr Martin has suggested, respect the views of Bishop Desmond Tutu and call for full mandatory sanctions against South Africa. One of the largest British investors in South Africa over the years has been Barclays Bank, which via its South African subsidiaries has £6 billion worth of assets in South Africa and controls 30% of the banking there; hence the reason for the motion to discourage students from opening accounts with them.

Bishop Tutu is not the only prominent South African church leader to call for sanctions; Rev Beyers Naude, president of the South African Council of Churches repeated the call on national television only last week.

Could Mr Martin please tell me which African countries he says have, after overthrowing apartheid or foreign colonial systems, become less representative and more brutal? Could he name one which is the last year detained over 20,000 people without trial for speaking out against the government, or one in which over 1400 people according to government figures have lost their lives in the last 18 months!

I would like to ask one final question. If more of the members of Con Soc who had been asked to come along to the UGM on 13 March had done so, so that they were in the majority, and yet the meeting was still clearly inquorate, would the meeting have been representative enough for Mr Martin not to have been prepared to challenge the quorum, or does democracy just work in one direction?

Shaun Dunlop  
IC Anti-Apartheid Soc



## Islam

Dear Sir,  
We would like to clarify some points about ISLAM and the ISLAMIC revolution in Iran. The Islamic Revolution in Iran was not simply a change in a regime and cutting the hands of both superpowers from the fate of a nation, but it was a turning point in the recent history of the oppressed people of the world. By exercising Islam, this revolution has lit up a luminous torch beyond the path of each movement, aiming to achieve liberty, greatness, honour and dignity for human beings.

The oppressed people of the world who have realised the true nature of the so called Eastern socialistic and Western democratic or nationalistic man-made ideologies, are now practising Islam successfully in sorting out their problems. Islam has offered them all the values which other ideologies had failed to provide.

One of the major social and political values offered by the comprehensive Islamic program to promote human beings is the mobilisation of the masses to take their own right and cut the hands of aggressors. In Islam, in the process of an oppression, the passive oppressed person is blamed as much as the oppressor.

Revival of these aspects of Islam by Islamic Revolution in Iran is not tolerated by any of the plundering superpowers and their puppets. This explains the unified, co-ordinated and mutually agreed conspiracies of both superpowers against Islam by attacking Iran in all aspects and by all available means in spite of all their fundamental differences. Directing, sponsoring and supporting an unequal imposed war and wave of murders of about 20,000 Iranian people from the top ranks in government to ordinary people by blind terroristic action of their mercenaries, economical sanctions and freezing most of the external Iranian assets and an effective and programmed propaganda scheme against Iran are parts of the superpowers campaigns to abort or at least stop the widespread Islamic movements of about one billion moslems.

In this huge evil campaign the articles similar to the one published in the FELIX no 736 are so worthless and indignant to be referred to.

In spite of all conspiracies made by superpowers and killing of their puppets and mercenaries the message of the Islamic Revolution has been received by their consciences of the oppressed people of the world and it will not be too long that its flames burn the roots of oppression and injustice all over the world.

*'Some members of the IC Islamic Society'*

## Iran

Dear Sir,  
I did not really think FELIX could also become a propaganda mouth. In your last issue, (Wed 19.3.86), in the Opinion column, someone, who did not even have the courage to sign his/her name, managed to pour out some of the most incoherent rubbish that I have read the western press about Iran. It was also childish and cowardly to publish such one-sided 'opinion' in the last issue of term, so as to delay the opportunity of an immediate response.

To answer each and every one of those fatuous remarks needs a book and I hope somebody throws some light on the other side of the story in a similar opinion column. Let me just say that seven years ago, the people in Iran managed to overthrow one of the mightiest dictators of our time, the Shah. In doing this, they received precious little help or encouragement from the rest of the world. They learnt how sacrifice alone could bring about concrete results, and they paid with their blood in order to establish a government of their own-a rule that brought their culture and values in to practice since the capitalist and socialist doctrines had failed to provide an acceptable political solution, they wished to give their own ideology-Islam-a chance. They did so by an overwhelming majority in a referendum. But from the time of the 'crusaders' Islam has always had a bad publicity in the west. Hence the government in Iran is always presented in the 'dark ages' mentality, which



*Iranian women in purdah*

is in fact a reflection of the subjective attitude of the western media. If a whole nation has decided to practice Islam, who then are westerners to pass a judgement? If they want to fight with immorality in their society, what right does the western man have to criticise them, given the conditions of his own society?

In any case, if the people in Iran felt any type of renewed oppression, there is nothing to stop them revolting again. After all they defeated a mighty dictator, and his brutal

secret police seven years ago, single-handed. This time they would even get the combined support of the CIA and KGB!! Meanwhile those few who have preferred the comfort and luxury of lives in European capitals and dare call themselves 'exiled democrats' are only day-dreamers. Every nation gets what it deserves as a ruler, the brave nation of Iran certainly does not deserve such deluded and arrogant ostriches.

Truly yours  
Hamid M  
Elec Eng Dept

## Letters

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## Size Isn't Everything

The size of human testicles may be more important than was previously thought. Recent studies have shown that there may be a relationship between racial variations in testicle size and the incidence of dizygotic or fraternal twins (which develop when two ova are fertilised at the same time).

Measuring testicle size is difficult in living specimens, and results aren't very reliable; the weight at death is a more accurate measure. The large differences found are rather surprising: Caucasians have much bigger testicles than Asians, and the difference is quite out of proportion to the

differences in body size.

In apes, large testicle size correlates with high copulatory frequency and high probability that a female will mate with several males during one ovulatory cycle. But the same does not apply to humans.

The variation in the incidence of fraternal twins follows the same direction as the variation in testicle size. In Japan, for instance, about 2 births per thousand result in fraternal twins. In Caucasians the figure is more than 8 per thousand, and in the Yoruba tribe in Ilesha it is nearly 50 per thousand. The testicle size for Yorubas is not recorded.

But so-called causal links like this need to be treated with caution. It has been shown that the concentration of sulphur dioxide in the atmosphere is directly proportional to the rate of illegitimacy...

	Left Testicle	Right Testicle
Hong Kong Chinese	7.98g	8.57g
Danes	20.40g	21.60g



## To Drink

Could the piss artist in the Union Bar really be more artistic than the rest of us? Probably not, but many creative geni have also been drunkards. Take for instance, Dylan Thomas, Brendan Behan, W C Fields and Sibelius. All were creative people. And all drank themselves to death. There are many more examples.

Now there is some scientific work going on to try to establish a connection. Geoff Lowe, of Hull University, took 16 men and 16 women aged 18-30. Each subject came in to the laboratory on two occasions a week apart. At one visit they were given alcohol and on the other occasion a control non-alcoholic drink made to taste the same. The subjects had no way of knowing what they were drinking. On both occasions they had to complete a creativity test after their drink. Typical questions were 'How many uses can you think of for a cardboard box?' and 'What if clouds had long strings attached to them, hanging down to earth?'

The results do not show a direct correlation between alcohol consumption and creativity. What they do show is that those who did very well when sober did worse when drunk, and those who did badly when sober did a bit better when drunk.

Lowe believes that the reason may be as follows: the low scorers were stressful and anxious when sober, and alcohol made them relax a bit; the high scorers were performing at their peak when sober and alcohol numbed

their answers.

## Or Not To Drink

More than 20 people are dead, and 50 are blind, after drinking Italian wine laced with methanol. Nine winemakers are in prison charged with murder, and four wineries have been closed down.

Methanol ( $\text{CH}_3\text{OH}$ ) is related to ordinary alcohol, ethanol ( $\text{CH}_3\text{CH}_2\text{OH}$ ), but it is very much more toxic.

About 100ml of methanol is sufficient to kill, and 30ml can cause permanent blindness. The contaminated cheap red Italian wine has sometimes contained as much as 170ml methanol per litre bottle, easily a lethal dose.

What is confusing experts is why anyone would add such a toxic substance to wine. The answer probably lies in the way in which cheap Italian wines are priced. The value of such wines depends on the alcohol content, which is determined by measuring specific gravity or density. Methanol (density 0.7915g/l) artificially lowers the density and so increases the value when sold to distributors.

One immediate effect of the scandal has been to reduce Italy's wine exports to almost nothing. Which is quite serious for a country where exports earn about £625 million a year in foreign currency.

Together with the lethal nature of methanol, this makes the problem much graver than the Austrian scandal last year, when diethylene glycol was found in wine. (Diethylene glycol is **not** antifreeze, by the way. Antifreeze is mainly ethylene glycol.)

# The Week In Science

A new feature that looks at what's been happening in Science.

## Embryo Auction

The first international embryo auction was held in Sydney, Australia this month, with 89 embryos auctioned in 51 lots by video links throughout Australia and New Zealand.

The sale raised A\$304,750. Apart from their use in research, the attraction of embryos over the newly born is that they are much easier to transport from Australia to New Zealand.

(All the lots were cattle embryos).

## GCHQ Lies

The government has announced that as a security measure it is going to introduce polygraph lie-detector equipment at the government spy station, GCHQ Cheltenham. The British Psychological Society (BPS) has warned its members that if they operate the equipment they will lay themselves open to disciplinary action.

Research by American scientists, published in *The Lancet* last month, reported that the use of the lie detector

was based on a very weak scientific foundation. The polygraph is more likely to incriminate truthful people than liars, and is unlikely to help prove a person's innocence, they say.

The polygraph was invented by Sir James Mackenzie, a London heart specialist who died in 1925. The device simultaneously records pulses in various veins and arteries, and so identifies disturbances in the heart beat. Mackenzie designed it for use in investigating heart disease, but it was soon replaced by the electrocardiograph for that purpose.

## Less Than Likely

Probabilities have to be positive, don't they? The likelihood of 'tails' is roughly 0.5, and the likelihood of 'heads' is also roughly 0.5 and if you add them together you get exactly 1; which is the probability of getting an outcome at all. The idea of a negative probability would seem to be outside everyday human experience. Things are

either certain (1), impossible (0), or more usually somewhere in between.

But negative probabilities do seem to keep cropping up. In quantum mechanics, for instance, relativistic generalisations of classical quantum theory often yield negative energies, and with them, functions that can be interpreted as being probability distributions that are capable of being negative.

In attempting to give some

meaning to negative probability, Professor M S Bartlett, formerly of Manchester University, suggests the following approach. If a coin is biased, then the probability of tossing 'heads' can be expressed as  $0.5+x$ . Clearly  $x$  can be positive or negative, depending on which way the coin is biased. So here we have a probability term that can take a negative value.

And now for our

competitor. Bartlett believes that most of the problems posed by negative probability stem from people's rash determination to follow Born in treating the square of the wave function as a probability distribution. Bartlett sees no physical justification for this assumption. The best justification submitted by a reader (less than 300 words please) will be published next week. All contributions to the FELIX office by Wednesday.



# Rag Fete



Tomorrow afternoon, the Queens Lawn area will be buzzing with activity to those old veterans of the College, the much awaited annual **Rag Fete** has arrived doing its usual clash with exams whilst to those still yet to attend one of these mega events, there lies an array of amusements to tickle your fancy whatever your mentality. If you haven't been to one of these Fetes, I admit there leaves little to remember about previous Rag Fetes, but this year promises to be one to remember for a long time coming many first-timers to the Fete will be making an appearance; societies you never knew existed will be surfacing there, and hopefully if they go down well, will become regular sights each year.

This by no means deprives the Fete of its usual favourites of mud-wrestling (this year against the ladies Rugby team), going up to the top of Queens Tower, Scalextric, stocks and Jumble stalls.

This year, Dr Who fans (or similar specimens of the human race) will revel at the fact that Sci-Fi Soc will be showing videos which are PG (although some have been banned by the BBC) and they will be shown on an auction basis, auctioning between Dr Who episodes, Blakes 7, episodes, Space 1999, Man from UNCLE and many more.

For those not so turned-on by these, why not go and hear Wellsoc's stake at the Fete? (rhymes good innit?) For those devoted

Wellsoc supporters, Jason Reese will be trying to get one of your favourite speakers to speak in ME 220.

Plenty of other things to do, like 'shoot the goalie' on the lawn, preferably with a football, hockey ball or hockey stick, or you could try knocking down skittles, throwing eggs, throwing balloons or better still, if there aren't any low flying aircraft around, launch a balloon in our balloon race.

For those to whom I have not appealed to yet, there will be the usual 'refreshments' (know wot I mean?) on sale, and if you're still desperate, you might get to chat to Anne Diamond from TV am who is coming to open the Fete for us. Who knows? If you're lucky, you might get to take her to the Rag Fete Party which is going to be held afterwards in the Holland Club, where two of your favourite college bands will be playing: DUO and THE BEAT BANDITS. 'Refreshments' will be on sale there also 'till 2.00am. The theme of the party is a PUNK party, so come as your favourite punk personality (are there any?) and dance away the end of a hopefully successful fund-raising day.

Come along and enjoy yourselves this year and see how you can have fun and at the same time help us to raise money for your charities; MENCAP, Royal Marsden Hospital, Deaf Children's society. The break in your exam revision will do you a world of good, and so will the 'refreshments'.

# Is This You?



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## Small Ads

### Happy Savi Birthday.

●**Art Soc Election** There will be an election for an ordinary committee member on Monday 28th April at usual place. Anyone interested in standing should give their name to Sarah Bunney via the Elec Eng Pigeon Holes.

●**Golf Soc Championship** is on 30 April, meet Sudbury Golf Club at 10.00am for 36 holes of Cheap Golf.

●**Professional PA** for hire 2 plus KW plus foldback! Quality mics, soundeffects and mixing facilities. Components also available for individual hire. Contact Hans Beier EE3.

●**Any female hockey** players of any standard wanting to go on tour to Holland for 5 days at the end of August please contact Sandra Rofe ASAP via Elec Eng Pig holes.

●**Chinese chess soc** Annual General Meeting. Officers reports and election of next year officers. Presentation of prizes. Tuesday April 29. Elec Eng 7408 12.50pm non members are welcome to attend.

●**The Joint Jazz Club** Committee is on Tuesday 29 April at 12.30 in the Jazz Room. All committee members should attend.

●**Hang Gilding Club** meetings now on Fridays Please attend for flying that weekend. 12.30pm above Southside Bar.

●**Hey all you heavy metallics** interested in seeing Dio at the Hammersmith, the dates are 12, 13 and 14 May interested? Contact Gordon Brignal (Physics 1, Linstead). Let us know the date you would like to go well try and get a block booking if its convenient.

●**Rag Meeting** today 12.30pm SCR Union Building. Please come along to help the fete tomorrow. (That means you espec Brigit, Simon and Judith).

●**FUN FUN FUN** come along to the Rag Fete tomorrow on the Queens Lawn at 2.00pm. Plenty of stalls for everyone. Party at the Holland Club at 8.00pm afterwards, two bands, disco and bar extension for £1.50.

●**Having a Party?** Hire one of the most powerful mobile discos in London! Based at your very own IC. Superb rates for superb sounds! Hans Beier EE3.

●**IC Staff Cricket Club** The Club normally runs a first and a second XI. The first eleven plays in the Mid Kent League, in which they were champions for the last two seasons. The second eleven plays friendly matches at Harlington. All game are played on Sunday starting at 2.00pm. The cricket season starts on the 4th May. All members of staff, members of the Holland Club and post graduate students are eligible to join the club. We need new players with enthusiasm. If you are interested please contact: Brian Evans, ME 3385, or Noel Ferrand Comp Centre 4967

### FOR SALE

●**Austin Maestro** 1.3L 1984. Excellent Condition £2,950 Tel int 7777.

●**Mans 24 inch Carlton** 10 speed £65 ono. Contact Alex Milne Ext 5008 or after hours 679 0585.

●**Yamaha RD400**, £125 reasonable condition Andy Manners, PG Chem Eng Rm 613 4372.

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### PERSONAL

●**Willy for sale** Only one owner never used See Richard Coleman ME 2 for details.

●**Boo-Boo Cakes**; glad you're back shall I meet you in Waitrose for an argument.

●**BHASVIC reunion** Monday, 28 April meet 8pm on West round platform on Picadillyline at Leicester square. Or in the Sussex pub until 9pm. Any problems contact A Martirossian Physics 2.

●**Would any southerners** holding FA Cup final tickets please redirect them to more deserving scousers Rm 547 Tizard.

●**Richard is a professional** Sainsbury trolley pusher!

●**Duo have** taken over the Jazz club.

●**There was a young boy** called Billy who tired to grow a big willy, he put seed in a pot and watered it a lot, but all that came up was a lilly.

●**In the 1986 C&G VP** elections the average vote lies 113 but Jim Stuart-Smith got n-n-n-nineteen.

●**There was a lad** called Dave who just loved to romp and rave he had six at a time and thought it was fine, but what will he do in his grave?

●**Jim that** wiped the smile off your chin

●**There once was a lad** called Grant who said I'm sorry I can't when we asked why he started to cry and said well I should but I can't.

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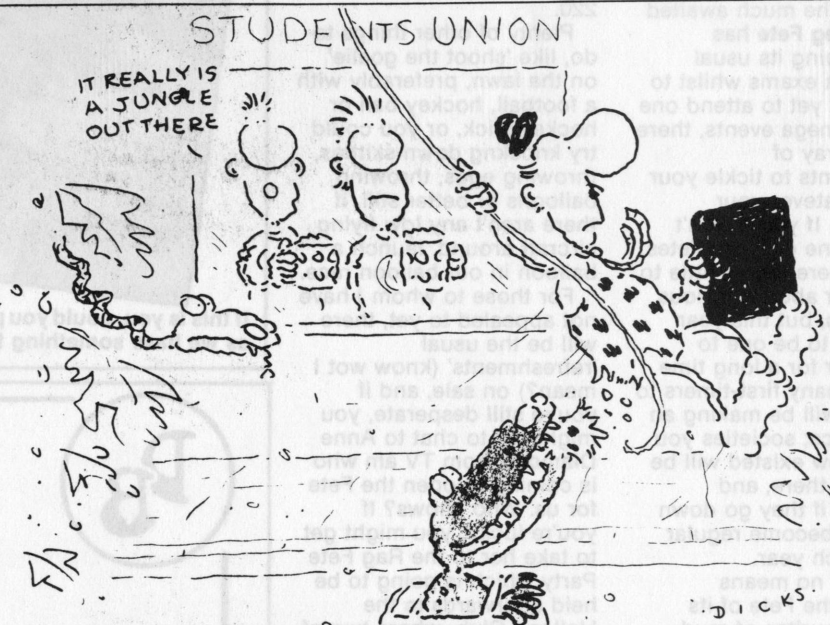
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# Solutions To Easter Puzzles

Well, we had very few solutions to any of prize puzzles. I hope you enjoyed trying them anyway—I know lots of people tried the crossword. I know a lot of you will have exams this term, but I'll keep setting problems as long as there's some enthusiasm. I'll try to make them a little easier, though, so as not to take up too much of your precious time.

**A Cable of Cables**  
I received several solutions to this problem. Two people entered correct answers but with no explanation as to how they got their answer. I will only except these solutions if the relevant people send me their explanations. I'll give you until the next deadline on Wednesday at 1.00pm. Of course, anyone else can enter a solution during that time if they want to.



## Solutions Quickies

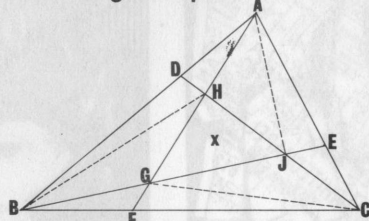
**What costs ten pence for one, twenty pence for ten, and thirty pence for a hundred?**  
Front door numbers.

**Correctly label the boxes.**  
Take a marble from the box marked red and blue, say it's blue. Since the box was wrongly marked it must contain blue marbles only. Now, the box marked red cannot contain either red only or blue only, so it must be red and blue, and the remaining box is the one containing reds only.

**How can you average 30mph on a journey after you have completed the first half of the distance at 15mph?**  
Impossible, you would have to complete the second half of the journey in zero time.

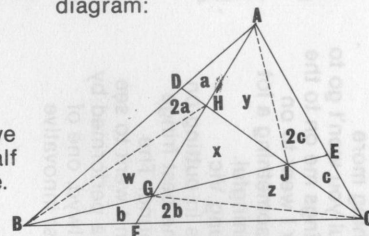
**Score three consecutive goals without anyone else touching the ball.**  
Start by scoring an own goal and then take the kick off. Kick the ball forward into the opposition penalty area and run after it. Before you touch the ball again you're brought down inside the penalty area and you take the penalty and score. At this point the whistle goes for half-time, take the kick off and repeat the latter procedure. It is a bit contrived, but it's only way it can be done.

## Triangle Groper



First add the extra lines shown. The triangles ABF, ADC, BEC must each have area  $\frac{1}{3}$  by similar triangles (assume the whole triangle has area 1). Now  $ABF + ADC + BEC + x = 1 + (\text{area where they overlap})$ . This means that  $ADH + JEC + BFG = x$ .

By similar triangles  $2 \times BGF = GFC$ ,  $2 \times JEC = JEA$ ,  $2 \times DHA = BDH$ . Now put all this information onto the diagram:



Now by using similar triangles between HFC and HBF and repeating on the other two sides we can show that  $z = y = w = x$ . Thus adding up;  $4x + 3 \times (a + b + c) = 7x = 1$ . Thus  $x$  is one seventh of the total area.

## Not Hieroglyphics

The code is simply based on noughts and crosses, as shown below.

a	b	c	j	k	l	s	t	u
d	e	f	m	n	o	v	w	x
g	h	i	p	q	r	y	z	

It reads: 'If music be the food of love..' you know the rest!

## Wrong long division

The correct sum is:

$$\begin{array}{r}
 1222 \\
 47 \overline{) 57434} \\
 \underline{47} \phantom{00} \\
 104 \phantom{00} \\
 \underline{94} \phantom{00} \\
 103 \phantom{00} \\
 \underline{94} \phantom{00} \\
 94 \phantom{00} \\
 \underline{94} \\
 0
 \end{array}$$

## IC Occupations

Alan is the Mechanical Engineer and is 23. Bob is the Electrical Engineer and is 20. Clair is the Physicist and is 28. Debi is the Chemist and is 19.

## This week's problem Shagar's Sheep

Farmer Shagar's square farmhouse is surrounded by a large garden in which he keeps a small flock of sheep. He has invented an interesting method of counting them. Every evening he goes to the windows in each of the four sides of his house and counts all the sheep he can see from the window (he cannot see around the corners of the house). I pointed out the stupidity of this since he obviously counts some sheep twice.

'Ahh', he said 'but sometimes I can work out exactly how many sheep I have. For instance, the other night I counted the same number of sheep at every window, it was nine. Tonight I also counted the same number of sheep at every window, and it was five. Now if I tell you that neither time did I count all the sheep twice, but neither time did I count none of the sheep twice, you should be able to tell me how many sheep I have.' But I couldn't. Can you? Assume the sheep don't move while he's going from window to window.

Answers to the FELIX office by Wednesday 1.00pm for the £5 prize. Comments and ideas welcome as always.

MEGABRAIN

MEGABRAIN MEGABRAIN MEGABRAIN MEGABRAIN MEGABRAIN



**The Normal Heart** arrives at a time when the prejudice thrown at us by the majority of the media is sadly beginning to sink in. This is an important play, not only for the issues of AIDS and the hidden homophobia of the masses, but for the way in which it illustrates the power of the press and the bureaucrats, and the abuse of that power.

The play is set in New York City over a period of 3 years. The action takes place within the confines of a simple geometric set covered with banner headlines from the tabloids. Apart from a large white box, which serves a multitude of functions, the floor, like the surrounding walls, is featureless, matt white, and serves to

intensify the action. Suspended above the set hangs a large white cross.

I felt that the performances of Martin Sheen, who plays Ned Weeks a character based on Kramer's own story, and Frances Tomelty as the disabled Dr Brookner were particularly good. They both sustained an inner intensity and conveyed feeling. The part of Ned's lover, Felix (!) is played by

Paul Jesson, who I am reliably informed is an American, despite the fact that his accent seems to vary according to his emotional state. The standard of the rest of the cast varied greatly, almost as if they were at times relying too much on the play itself, not being believable in their parts.

Despite the inevitable tragedy, there is a great deal of typically New York

humour which I feel has travelled well. The action takes place in a variety of settings, moving from the angry Dr Brookner's office to Felix's desk at 'The New York Times' to Ned's apartment. Throughout, the realisation of the pending epidemic, (pandemic?) is seemingly denied by all but Dr Brookner and Ned, and in the end, Ned's anger and drive to tell the world, to take direct action, causes his own alienation from the gay community. He becomes the outsider within the group of outsiders.

There is much more to this fine piece of writing and production, too much to fit in here, go and see **The Normal Heart**.

The play takes place in the basement, and subsequently the backyard of an East End tenancy. Tanya McCallin, the

designer has made very good use of the space available to her. A metal framework forms the core of interest, on to which fits a variety of doors and windows to create the communal area of this shared house. During the fifteen minutes interval, this was cleverly transformed into the backyard of the same house, windows and doors flew around, cooks disappeared cigarette butts removed from the tatty floor (individually, by hand). The plot is too complex

to detail here, but suffice it to say that the characters included a prostitute, a young black thief, a simple cornish joiner, a Nigerian 'chief', a drunken ex-teacher and an elderly guru aptly named 'Talker'. None of the individual performances were outstanding, although Maria Charles as Annie, made the most of an interesting 'Character' part with lines like: 'Not for the price of a million patties (like pasties?) would I marry again, and, you give a person the whole of your life and they die on you...soon you wonder if they existed at all...'

There were moments worth recalling, most notably the breakdown of the prostitute, played by Tilly Vosburgh, crying for her imaginary lost love. The contrast between her pastel costume and soft appearance, and her hardened use of language made her all the more intense. A single line by the 'chief' also bears mentioning: 'England is the root of all black people problems' a sentiment all too true perhaps. I was left feeling confused, is there hope in 'The Lower Depths' or are we all fated?

Wednesday saw me watching The Royal Shakespeare Company at the Barbican. The RSC specialising in staging modern productions of Shakespeare and new classics. The standard of productions is almost always high. I saw their production of the **The Merry Wives of Windsor**. If you talk about Shakespeare most people complain and say that it's boring. Shakespeare wrote his plays for the common man not the intellectual. Unfortunately the middle classes and university lecturers have created an aura about Shakespeare that means most people think Shakespeare is a boring old fart who they have to read about for English O level. The RSC manage to make

Shakespeare approachable. The production of **The Merry Wives** was set in the fifties the set was excellent. The cast included one of Britain's most talented comedienne Sheila Steafel. All the other lead roles were taken by very experienced actors and actresses.

The wonderful thing about this production was that it was funny and it preserved Shakespeare's wonderful English. One can make comments about the direction and the action but essentially it's worth going to see the play because it reminds one how enjoyable Shakespeare can be.



**The Girl in the Picture** ★★★ John Gordon Sinclair (previously Gregory of 'Gregory's Girl') returns to play a similar character, this time a photographer, in this gentle comedy about true love.

Very much in the vein of 'Gregory's Girl', it paints an attractive picture of both Glasgow and the two stars. Charming.

**No Surrender** ★★★★ (Odeon Haymarket) A very black comedy centred around a nightclub in Liverpool and involving two groups of Protestant and Catholic old age pensioners double booked on the same night.

Alan Bleasdale's targets include old age, conflict and reconciliation and human nature in general. A very sharp and funny comedy, with some excellent acting from the two leads especially.

**A Room with a View** ★★★★★ (Curzon)

A completely flawless film of EM Forster's book. Every single characterisation by the brilliant cast is without fault and the direction is unobtrusive and skilful. Highly recommended.



**High Noon** ★★★★ (Cannon) A chance for all those who have not seen it to catch up with the rest of us. Made towards the end of the Hollywood Western era it concentrates on the moral dilemmas of pacifism and standing up for what is right. It also is famous for its skilful pacing and handling of suspense, the length of the film being exactly the same as the time in which the action takes place.

**DARYL** ★★ (Cannon) Surprisingly anti-government film for the current Reaganite America. The local community fights hard to prevent the evil authoritarian military from destroying cute boy-robot.

**Caravaggio** ★★★★★ (Lumiere) Derek Jarman's personal view of the life of the Italian painter Caravaggio, and one of his more accessible films.

# Film



**Absolute Beginners** ★★★ (Odeons)

Currently London's most popular film, it is a lively, colourful but ultimately rather empty musical set in the the 50's at the time of the race riots (but you must know that).

Most of the stars play their comes well and Eddie O'Connell is very good, but Patsy Kensit varies from being bad to pretty good. It is, however, never boring and there are some audacious set pieces. Fun but cluttered.

**Marie** ★★★ (ABC)

A state officials fight against corruption of the department around her and the Governor himself.

Sissy Spacek is very good as usual, but the story has a tendency to be overly melodramatic and it loses momentum towards the end.

**Heatbreakers** ★★★★★ (Cannon and ICA) Sexual rivalry and jealousy between two long time buddies. The superb acting and intelligent script raise it above the usual film about this well-run theme.

Unjustly criticised for its portrait of women, it's a film that is worth considering making a detour for.

**Crimewave** ★ A comedy (supposedly) about two unpleasant exterminators hired to dispose of a greedy business partner.

The attempt to copy fifties thrillers is awkward and just serves to highlight the shortcomings of the film. Surprisingly unfunny for a comedy.



The variety of shows on in London's theatres always amazes me. With the possible exception of New York and Edinburgh at Festival time, London has the most thriving and varied theatre scene in the world. There are West End farces and classic Shakespeare productions at the Barbican, there are fringe shows in pubs and high-ten musicals. Anyway before I get carried away I suppose I'd better explain why I'm rambling on. Last week I went to review three shows that show just how

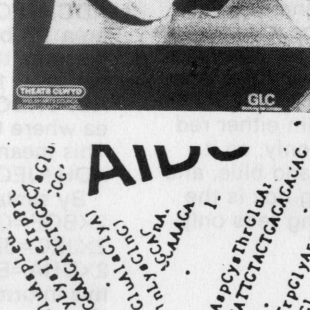
varied London theatre really is. On Monday I went to the Duchess theatre to see George Cole (aka Arthur Daley) in **A Month of Sundays**. This is a quite amusing show about an old man slowly going incontinent in a nursing home. Essentially the production is very much like TV sit-com transferred to the stage (indeed although the play is the author's first, he's written TV programmes like **The Good Life**). It has nothing much to say about the

problems of age but it's entertaining. It's a little sad really that because TV so dominates people's lives the theatre has shows that are essentially cashing in on successful programmes and TV actors. The play could well have been written for George Cole wanders around stage because he essentially being the genial old man that he is on TV.

It's really very difficult to review a play like this because if you like George Cole and TV comedy there are a lot of laughs. Looking at the audience most of them seemed to be OAPs on outings who like this sort of light entertainment and had a few good giggles. If you're looking for something more meaningful you won't go to it. This brings me on to the next show I went to on Tuesday, something a lot more meaningful.

The Young Vic specialises in putting on some of the best fringe shows around. The production I went to see was **Medea** performed by Theatre Cwylwyd, one of Wales most innovative companies. **Medea** is a Greek tragedy about Medea who was rejected by her husband Jason and decided to get her revenge. The staging for this play was amazingly good. The director and producer managed to come up with some new ideas on the staging of Greek tragedy without changing things for the sake of it. Eileen Atkins as Medea was extremely impressive. Greek tragedy required the actors and actresses to be amazingly depressed one minute and in love the next minute. When the tragedies were originally staged the actors and actresses relied on masks to convey their emotions. Modern production rely on the actors and actresses skill. Eileen Atkins was about to change her emotions easily and convincingly. The rest of the cast were equally convincing.

By the time you read this it may well be too late for you to go to see **Medea**. It is if it's unlucky. This play though is typical of the high standard of productions at the Young Vic so go and see something this term at the Young Vic.





# Intelligent Robots?

An opinion article by ex-Guildsheet editor Mark Cottle.

Towards the end of last term I was involved in the production of a spoof Guildsheet which had been intended to satirize various aspects of student unions at Imperial College. Some people were offended by some of the contents, I was offended by bits of it myself.

Nevertheless I had become so disillusioned in my time at college that I felt something needed to be done to shock people with the sort of hypocrisy which goes on. At the time it was rather difficult to write a serious criticism openly, but it's no good pouring out derision without trying to say something positive as well. I've been an active supporter of things like CCUs and Rag in the past and so maybe its slightly hypocritical for me to write some of the following. But looking around me I see the same old faces having their say.

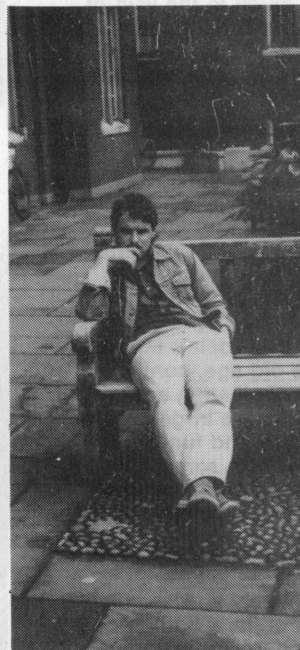
The word 'hack' is normally used to mean anyone who is involved with an organisation (often newspapers) at a basic level, but at Imperial it seems to be an insult. I asked myself why this is so. Why don't the vast majority of students seem to care. Why is it that obnoxious extroverts so often end up running things? Why in an institution that is supposed to have such a formidable academic record, is it, that the usual method for showing discontent with your course is to talk loudly in lectures, lob paper darts or go to sleep? Seeing as FELIX is open for anybody to air their opinions and at the risk of being considered an obnoxious extrovert I decided to have my say.

Sometime earlier this year during a discussion on teaching at College the suggestion was made to me that "IC produces very good technicians but poor scientists" Now as a (supposed) engineer I'm not really qualified to talk about teaching on Science courses, but it seemed that the point of the comment was that while Imperial produces people with a high standard of competence in the basic disciplines of their subject it fails to teach them to think for themselves. The consensus seemed to be that we are at an institution which has taken to heart its brief to produce technological graduates for industry at the expense of teaching you to ever challenge what you are told- to ever be anything but apathetic about the world beyond your own immediate life. When I came to Imperial I did so because certain points had been made to me by prospectuses and staff. I now find that I'm not the only one to be disillusioned by the reality behind some of these expectations.

Teaching methods and standards are one area where a lot has already been said but little has yet been done. A college working party on schools liason noted last May that "There is evidence that IC has a bad reputation in

undergraduate teaching". Yet only recently has the Union been seen to take any sort of coordinated interest in academic affairs. In fact many well intentioned committees seem to have acted, as Pete Klemperer suggested, merely to keep student discontent quiet. It needs

more space, and you get a set of reasons why applicants with good 'A' levels are beginning to go elsewhere. In fact whereas last year for science and engineering as a whole throughout the country UCCA applications fell by



about 3%, applications to IC fell by 8%. More than that, according to the College Admissions Policy Committee, the College Scholarship exam, an indicator of high potential students, will probably not be run in future due to a lack of candidates.

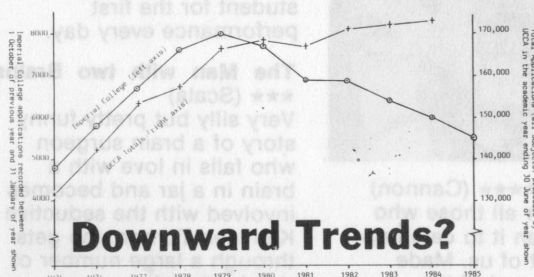
Imperial depends on a

always be amateurs in comparison to the professional administrators they may deal with. There will always be a lack of continuity as officers change each year, those just taking over will take a large part of their term of office to become experienced. Quite often if college get an unfavourable response from one set of officers all they need to do is wait for the next set. Against this Imperial has had certain strengths, significantly national party politics and all its inherent polarising of debate has taken a back seat in union business. But in striving to maintain a 'vehemently moderate' image anachronisms have arisen. In fact in many respects the student unions at Imperial are an extremist farce. It is my personal disillusion with some of the people responsible for representing students and the failure (largely) of the union to contain their incompetence or self interest that has really led me to write this.

The union is currently facing problems of limited money and demands on space. This is not a sudden problem it is a crisis which has been brewing slowly for years. The plan for excavating gravel at Harlington was uncovered at least three years ago, the need for the Life Science department to find more space is not something which suddenly happened halfway through this year. Yet has the union had any coherent reply to college plans? It hasn't even managed to make the full facts of the proposals known. This year's chairman of the Athletics Clubs Committee was given virtually no information at all about the way the Harlington gravel development will affect the number of pitches destroyed and he is probably the guy whose business it is most of all.

Then there is the old chestnut of CCU finance and how justifiable some of the spending is. From the murky depths of some compromising brain came phrases like 'integral but autonomous' which mean 'you have to give us money but we can spend it how we like'. The point of this is to show what happens when an organisation is run by lots of people who all want to be in charge—everyone ends up looking after their own

COMPARISON IN TWELVE MONTHS OF UNDERGRADUATE APPLICATIONS TO IMPERIAL COLLEGE AND TOTAL NUMBERS OF APPLICATIONS HANDLED BY UCCA



## Downward Trends?

more than motions at inqurate UGMs to have much influence when college policy appears to be dominated by economics and orientated towards industrial research.

Then there is the question of the ratio of sexes which, to judge by the pages of FELIX, is treated in some quarters with far less than the seriousness it deserves. Add to this the worsening problems of accommodation, the ability of many universities outside London to offer more modern facilities and

highly qualified and highly motivated intake to produce high quality graduates—it, would have to given the limitations of its teaching! Ultimately if the standard of applications to IC is seen to fall so will its reputation and the reputation of your degree.

There are staff who are concerned about student problems, the new rector, for one, seems keen to improve matters. But the unions seem to consistently let their members down. Student unions will always have certain inherent problems. The officers will



interests and their own prestige to the exclusion of the rest. Result: yet more wastage of time and money.

Lack of cooperation leads inevitably to chaos. Carl Burgess has shown that, no matter how charismatic the union president, attempting to deal with college alone is doomed to failure. And the CCUs seem currently to be no better, being orientated towards people with particular traditional views. Protestations about events not having to involve drinking seem to rather miss the point. Certainly

would be reluctant to go to the Union Bar for fear of finding it full of tie club members and obnoxious drunks.

Imperial College Union and its three constituent unions have a great potential for truly involving the vast majority of the students here. We have at least avoided the situation in some of the arts ridden universities where people have to be members of a small political clique in order to have a say in the union. But there still seems to be a problem of terminal mass apathy.

I had always thought that



**Support of union meeting**

events organised in the first few weeks of the year by these people provide a vital way for new students to mix socially—but by the middle of the second term those attending CCU events are generally the habitual inhabitants of the various union offices and their immediate friends.

It seems that very few people in the union are prepared to take serious action on matters such as welfare, challenging college decisions or response to government cuts. Why is it that only places like Durham, with a letter writing campaign aimed at students parents, or Oxbridge, from where coincidentally the vast majority of national politicians come, make national headlines? Yet it seems that if some poor unfortunate should try to raise a faintly political point or criticise some tradition 'hidden item such as mascotry or rag, they will meet a barrage of derision worthy of Militant at its most facist

The best claim to fame of the unions this year is that they have gained control of a bar which was a liability to the college catering operation. Hopefully the lower floor of the union building can now be developed as a regular evening social centre. But Moore Lyttle has a difficult task when many people in my department, for one,

a science or engineering based education ought to be the best way to teach people to think logically about problems of all types. I thought I might find people in a student union who were interested in where the world is going. Alas I'm exposed as a hopeless dreamer because such people are few and far between. There are a vast number of students who show far more concern about where they are going out on their free evenings than they would about, say, a significant increase in the number of reported rapes in London. In many ways who can blame them because they are simply considering their own immediate problems in a world that becomes daily more bewildering. Perhaps also students are forced to be rather more conservative (small c) in today's Britain where the promise of a secure future is not as secure as it used to be. But that seems to bring to mind the argument about the reputation of your degree.

I doubt whether there are universities where the problem of apathy is startlingly better than here. But the handbooks and prospectuses portray Imperial as a leader and a centre of excellence. Surely the union ought to ensure it lives up to this image. Having seen the turnout which elected Duncan Royle as next year's Guilds

president and the success of Christine Taig I think there is hope. But I also think that it is time for the union to take a strong objective look at itself. It seems for example that there are some ludicrous cases of competition where there should be co-operation. There are three CCUs plus the IC Ents Committee all organising events largely separately from one another, and apparently with little accountability. There are some clubs and societies, particularly departmental societies and less 'glamorous' sports and social clubs who's activity is restricted by lack of funds while some 'prestige' clubs and events attract large amounts of money relative to the numbers of people involved. Perhaps it is time for people like CCUs and IC ents to be made more accountable for their spending.

Furthermore executives should be precisely what

can live up to my own criteria. It seems there are people wanting to revive the issue of NUS membership and I suspect that this is a topic which will see considerable debate, I hope it won't be just the same old characters voicing their regular opinions. I think in a lot of other areas the next twelve months will also prove crucial to the long term future of Imperial College Union. If we do not produce proposals for changes of our own accord they will be forced on us. The only way to achieve this is for next years executive to consult as widely as possible. Although it may be too late to get the best possible agreement over the future of the FELIX office there will be other issues to follow.

There is one final requirement both for the union and the college to have a healthy long term future. That is that you



**Another sort of union meeting**

their definition entails—ie there to take care of day to day running and representation—not dictatorships however benign. It is not the job of union presidents to make policy alone, neither is it their job to reach agreements on matters of significant consequence without consultation. It was once suggested to me that the most important requirement of a president was that they should be 'a leader of men' but it is much more important, I believe, to have a person who can inspire debate and listen. The way to improve the union is not through gimmicky ideas and rhetoric but through people elected to positions of responsibility being prepared to listen to opinions other than their own.

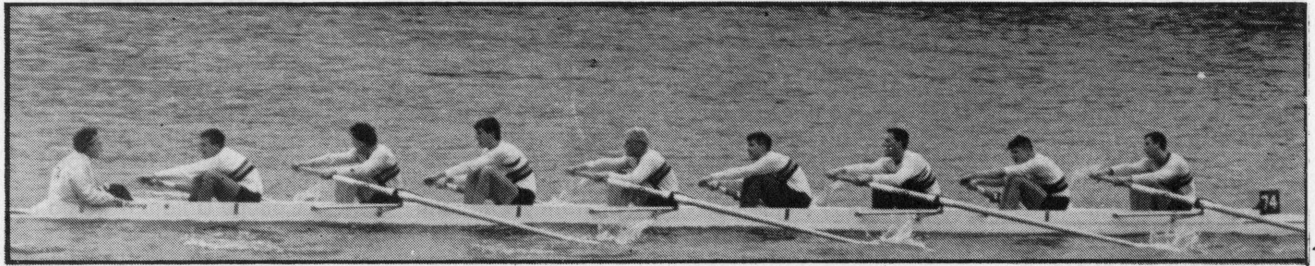
I hope next year as External Affairs officer I

reading this should take an interest and form and voice your own opinions from what you see and not what you are told. It is not important whether you agree or disagree with what I may say but whether you challenge it. If you fail to take an interest in informing yourself about what is going on in the world around you then you are doomed to be some second class technical nobody in whatever organisation you find yourself. If you are content to let things run as they will then you deserve to be in a union that finds itself losing funds and facilities, you deserve second rate teaching, you deserve to end up forced to live on student loans and you deserve when you leave to be passed over in favour of graduates from some provincial university.



## Rowing

# Head of River Success



The Imperial College first eight were the fastest Senior A crew in the Head of the River Race, held in London during the Easter break. The race was over a distance of 41/4 miles and is the largest rowing event in Europe. In a field of over 400 British and European crews, the first VIII came eleventh, losing only to international crews.

The second VIII came third in the Senior B Category and 41st overall. The Senior C crews, put together on the day, came 250th overall. The Novice crew came seventh in their

event and 222nd overall. The Fifth VIII racing in the Elite class, came 72nd overall, despite starting one from last.

The first VIII were the highest placed university or college crews, and the second VIII were the highest university or college second crew. These results show the excellent depth of talent in the club and hopes are high for a successful regatta season.

The first VIII and fifth VIII were racing in the 'Eric Ash', the boat purchased last summer.

## Badminton

## Imperial Beat UCL

An impressive victory saw a strong Imperial team beat University College by 7:2 after UC had conceded the final rubber.

The first game on was mixed and Sean and Sarah had a tough time beating a UC pair boasting a national player. In fact Imperial lost the rubber having won a fast and furious first game. Sean staggered off, absolutely knackered, and blamed their demise on a piece of mince pie he'd scoffed earlier and Sarah's addiction to wispa bars.

First blood thus went to UC but they had to wait until the mens singles. When Tan narrowly lost to the above UC players for their second and final point.

Super star Robin had a couple of easy matches. First in the singles and then in the ladies doubles where, partnered by our intrepid (?) captain, Susan, she overwhelmed a potentially strong UC pair. In her excitement Susan promptly scoffed half a packet of biscuits before going on court with Helen for the last ladies doubles. After a good start (Helen won the knock-up) the IC pair soon got confused and it ended up with Helen

running in circles round Susan and Susan running round herself.

Meanwhile, back in the mixed doubles, Sarah had just made a meal of the remaining biscuits and Sean was making a meal of the match. Again the rubber was decided over 5 games but the IC pair came out on top after an easy last game. Sarah promptly left to go flying and Sean was left to crawl off court.

In the mens doubles Tan and Bahret had little problems winning both their matches. A usual Tan looked half asleep, a casually prancing around the court leaving all difficult shots to Barket. Infact Bahret gave an impressive display on how to cover the court without actually returning a shuttle. In the other mens match Bia Dave Heaps got lumbered with Sean who had decided he was going to stand at the net and get the 'dribbly ones'. Dave was left to do all the running and his fanatical screaming, though disturbing the opposition, it kept his partner awake. Needless to say, Sean was carried off after yet another 3 game rubber

## Football

## Tour Defeats

### Zuillichen Rotterdam 1 Imperial College 0

Having suffered a nightmare crossing and the inevitable lengthy delay at Customs that seems to afflict all British teams in Europe, IC's sporting ambassadors faced a tough assignment against the crack Rotterdam outfit. There was almost trouble before the kick off as the unfurling of a giant Union Jack behind a goal had home officials screaming for the Dutch army, until it was realised that home fans were simply trying to make IC welcome. However, even the offering of a tulip to each player could not disguise the Dutch determination to castrate the proud British Bulldog and leave him yelping for mercy.

Pouring rain, flurries of sheet and a vicious wind meant that players rather more 'defrosted' than 'warmed up' during the preliminaries, and the Duty-free bottle of rum replaced the bucket and sponge in the dug-out.

Zuillichen flattered to deceive in the early stages, fancy flicks, feints and passes weaved pretty, complicated patterns that were usually shattered by the solid intervention of a Clarke or Engberg tackle, and the inevitable referees whistle. The young FIFA official was given the Dutchmen more protection than in the Mafia, and suspicious that his interpretation of physical contact was more Netball than Football were confirmed when Barvery was cautioned for a copybook slide-tackle.

On 20 minutes, Van der Slappkopf, the balding Dutch schemer, unleashed a vicious shot which moved so many ways it could have

knitted a jumper before Whitehead uneasily pushed it round the post. This scare seemed to inspire a Dunkirk type spirit from IC and they soon began to take control on a soggy, beach-like pitch. On loan striker Rhodes saw a dipping 20 yards acrobatically touched over at full stretch by the Dutch keeper and moments later was inches away from sliding in a ball flashed across the face of goal by Lynne.

The half-time whistle saw the players scurrying for shelter from the elements, although the Dutch Dishwater brand of tea reinforced the view that in Europe competition danger lurked everywhere.

re-emerging in to a furious hailstorm and playing into the teeth of a biting wind, skipper Lunghi called for the famous British stiff upper lip as the Dutch set up camp in the IC half. The troops dug in trenchlike on the edge of the penalty area and defended a brave, rearguard action. A famous mudsplattered rain sodden cleansheet looked in sight when with ten minutes remaining tragedy struck.

The umpteenth Dutch corner was sent long and high, swirling beyond the farpost, Whitehead, exuding typical Crobblaar like fealessness, leapt skyward, only to be beaten to the ball left 7 inch stopper, Van der Normuss whose tumping header burst the net.

IC hearts bled, tears welled up and their fierce patriotic pride was further wounded with seconds to go as a Lynne shot was stopped on the line by what looked to all, but the referee, like a defenders



(Football cont.)

arm.

The bitter disappointment of defeat was soon drowned in the bar afterwards, and a beer soaked referee belatedly awarded the spot kick. In dramatic fashion Whitehead and the Dutch Keeper returned to the pitch, only for IC partly and partially pissed penalty King to place his shot wide. The British Bulldog was not the only candidate for castration that evening!

### Olympia Rotterdam 5 Imperial College 3

As the British media harled their anger at the Zuilichem defeat, attacking the apparent carefree attitude and slack discipline of the

IC tourists, the captaincy was taken away from the laid back Lunghi, and for this final game was given to the more belligerent Bravery.

However, a heavily-sanded artificial surface, which resembled, in parts, the glassy remains of a road accident, as well as making IC realise that the slide tackle ban was not such a bad idea after all, also meant that controlled football was impossible. A ridiculously light ball bobbled, bounced and ballooned all over the place, the tackles were as artificial as the pitch, and within half an hour, the pantomime had reached 3-3, Lunghi, Lynne and Rhodes netting for the

visitors.

Amid an unreal, almost farcical atmosphere, Bravery's travelling Circus plunged to new but entertaining depths, and keeper Whitehead thrilled an open-jawed crowd with a sensational fifty-yard dribble up the touchline.

The confident Olympia outfit, perhaps sensing the unusual lack of British grit, on such a gritty pitch, proceeded to tear IC apart in the second period with some marvellously skilful ball controls and flick inter-passing. Baffled, bemused and bewildered, old pros like Goldsworthy, arrow, and Barnes were given a harsh footballing lesson, and it was more through luck than judgement,

including a missed penalty, which kept the score down to 5-3 in favour of the home team.

Nevertheless, that evening as reporters arrived at the IC hotel for the after match inquest, it was clear that many of the squad, busy with hairdryers, deodorants, and clean socks, were far more concerned with feasting their eyes on foreign frauleins than fretting over failed football fixtures.

As the team returns home after such poor results, surely it is time for us to consider appointing a tough Ron Saunders type supremo, to prevent our sportsmen treating future, tours as an excuse for holiday fun and frolics.

# BEIT

## theatre

Don't forget the Dramatic Society Auditions for our shows at the Edinburgh Fringe Festival in August. This year we are performing three plays: The Rhyme of the Ancient

Mariner, by Samuel Coleridge-Taylor, the Woman in White by William Wilkie Collins and the Lucky Ones, By Neil Marchant.

The auditions take place

on Friday 25th April at 7.00pm and on Sunday at 2.00pm.

We need **you** to act, to make sets, and for costume and lights. This is an excellent opportunity to become involved in the largest theatre and arts festival in the world. It doesn't matter if you're not involved with Dramsoc **Everyone** is welcome.

Meet in the storeroom on level two and half (above the Union Office) on either or both of the dates above.

See you there.  
Ciaran Hassett (Beit Theatre Manager)

### Sci-Fi

## Summer Activities

Contrary to popular beleif, not all clubs close completely over the summer term. SFSOC will still be holding regular library meetings on Thursday lunchtimes, and we'll be running a stall at Rag Fete where you'll be able to see lots of old TV Science Fiction shows (including Dr Who, The Avengers, The Prisoners, UFO, The Tomorrow People...)

Plans are also afoot for a club dinner sometime in the last 2 weeks of this term. Cost to be about £10, with subsidy etc. depending on numbers and menu requests. Anyone interested should give details to a committee member at a library meeting or any other time you can catch one. Try to do this as soon as possible please. A 'pub crawl at the end of term' is also a possibility, to have something to look forward to after this term's carnage. Best of luck to everyone!

### Women's Officer

## Freebie

After the trauma of exams, how about a free trip home? College will pay the travel expenses of any female student who's willing to go back to their school and talk to other girls about the opportunities available to them in science and engineering and at Imperial College. If you're interested, let me know and I'll give you leaflets to take with you and an expenses form to be stamped by your school.

Election papers go up soon for next year's Women's Officer job. You don't have to be a hack or an extremist, basically what's needed is someone who's interested in welfare issues and in encouraging more girls to consider science and engineering as a career, it doesn't have to be desperately time consuming either. If you're interested in being



Women's Officer next year do get in touch with me, via the Union office or Mech Eng 3.

Christine Taig

### Union Bar

## Smithwicks Promotion

Tonight





## 1230h

**Southside Lounge**  
**Hang Gliding Club Meeting.**  
For flying at the weekend please attend.

## 1830h

**Music Room, 53 Princes Gate**  
**'Gods call...'** A talk by Nicky Lee, a local pastor.

**Volleyball court**  
**Badminton practice**

## Saturday

## 1400h

**Queen's Lawn**  
**Rag Fete** to be opened by Anne Diamond of TV AM. Queen's Tower open, stalls, Dr Who auction and Wellsoc guest speaker.

## 2000h

**Holland Club**  
**Rag Fete Punk Party** tickets £1.50 in advance or on the door at the Holland Club. Two bands and disco: Duo and The Beat Bandits and bar extension.

## Tuesday

## 1230h

**Southside Bar**  
**Hang Gliding Club Meeting** no longer on this day but on Friday.

**Jazz Room**  
**Joint Jazz Club Committee Meeting** all committee members should attend.

## 1245h

**Union SCR**  
**ICMAC AGM** for election of next years committee.

## 1250h

**Union Upper Lounge**  
**ICCND AGM** please come and register your opinions for next years CND.

**Elec Eng 408**  
**Chinese Chess Society AGM.** Officer's reports and elections. Non members welcome.

## 1300h

**Voyager Exploration Of Uranus** A talk to Astrosoc by Dr Gary Hunt. Admission free.

## 1930h

**Volleyball Court**  
**Badminton Club Practice**

## Wednesday

## 1000h

**Sudbury Golf Club**  
**Golf Soc Annual Championship**

# Jobs For The Summer

## Introduction

During the Summer vacation many of the college's residences are let to visitors from outside the College. The income from these schemes is essential if reasonable rents in the residences are to be maintained. The various Summer Letting Schemes offer a number of jobs for the vacation period. These vary from challenging full-time managerial posts to part-time cleaning work. In general the work is well paid and interesting and free accommodation is provided.

The scheme falls into two distinct categories. The SAC Schemes operates in Linstead Hall and part of Southside and provides a standard hotel bed and breakfast service catering for conferences and other short stay visitors. This is run under the auspices of the Conference Office. The other categories includes Evelyn Gardens, Hamlet Gardens and Beit Hall and provides a more basic and less expensive form of accommodation where the clients tend to be students from other colleges staying for fairly long periods. These schemes are run by Student Services. For all the schemes, marketing is carried out centrally but during the actual period most of the work of running and maintaining the schemes is carried out by students.

## The Schemes

### SAC

This is the most prestigious of the four schemes and requires a large work force necessary to maintain high standards. The office and reception desk is based in the foyer of Linstead Hall and is run by a member of the Conference Office staff together with Assistant Managers, Night Managers, Cashiers and Receptionists. The reception desk is manned day and night throughout the Summer vacation. Guests are welcomed, registered and billed on arrival by the reception team and shown to their rooms by a porter.

Behind the scenes, the cleaner prepares up to 400 rooms which involves changing and making beds, cleaning wash basins and bathroom and vacuuming carpets. All this has to be done in the morning in four hours. Cleaners work in pairs, under the supervision of the Housekeeper and a co-ordinator, servicing 24 rooms and three sets of bathroom facilities on a staircase.

### Evelyn Gardens

This is the largest of the three schemes operated by Student Services, with up to 400 guests at anyone time. All three schemes are run by assistant managers under the supervision of a co-ordinator. The Evelyn Gardens schemes is staffed by four assistant managers and eight cleaners. The

assistant managers run an office, act as receptionists, maintain booking charts, collect rent, operate the accounting system and supervise the cleaners. The cleaners clean rooms, change sheets and act as porters.

### Hamlet Gardens

At Hamlet Gardens three assistant managers run 39 flats which provide accommodation for around 250 guests. There are three managers and two cleaners with full time duties similar to those of Evelyn Gardens managers. Many of the flats are organised so as to provide fairly basic accommodation but a number of the best flats are let fully equipped to families at a higher rent.

### Beit Hall

Beit Hall is somewhat different from the other schemes in a number of ways. In the first place it is much smaller with only 110 rooms. Also, the housekeeper of Beit Hall is heavily involved with the Vacation Lettings and the SAC office provides the reception facilities for the Beit Schemes. As a result of these factors we only need one assistant manager and two cleaners for Beit. The assistant manager is responsible for raising all invoices, making sure that guest pay on time and also co-ordinating with the housekeeper

All students who work in the Summer Letting schemes are offered free accommodation and a competitive wage. Those who work for the whole Summer, are eligible for a bonus. Wages, hours and bonus rates are as follows

Position	Hours/week	Wages	Bonus
Assistant Managers	39(average)	£90pw	£100-£300
Night Managers	33(average)	£74pw	£100-£300
Receptionist/cashiers	35(average)	£69	£70-£200
Cleaners and Co-ordinators	24	£1.90/hr	£30-£100
Porters	14	£1.90	£30-£100

Co-ordinators receive a £10 per week responsibility payment in addition to the above rate. The hours given for co-ordinators, cleaners and porters represent a guaranteed minimum; it is anticipated that additional hours will be available for those who require them. The hours given for other staff represent normal hours but there will be time when extra hours are required. Although overtime is not paid for

these, extra hours will be taken into account when assessing bonuses.

The Summer Lettings schemes offer an interesting and generally rewarding kind of vacation work. At times the work is very hard, particularly at the beginning and end of the schemes. Those working the management type jobs need a lot of stamina and patience to deal with large numbers of guests while working under considerable

pressure. At the same time, most people who work on the scheme tend to enjoy themselves as well as gaining useful work experience.

Application forms and the answers to any questions you may have are available from student Services, 15 Princes Gardens.

Closing date Monday 12th May.



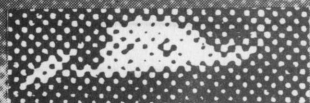
# Capital Ideas

Capital Ideas this week has been written by our man in Belfast, Pete Rodgers. Pete's Editor of Press Release, the newspaper of Queen's University Belfast, Belfast Correspondent of Hot Press, Dublin's version of the NME and possibly the best writer FELIX has ever produced. Take it away Pete....

## Rock'n'Roll

One of the most underrated LP's of the eighties has been 'Atom Drum Bop' by the Three Johns. It bristles with a nuclear guitar powered energy and a bold line in lefty political lyrics which leaves most bands floundering in the wake of the Leeds based combo. The Johns's first came to notice in 1983 and it's surprising they still haven't risen to major indie cult status despite half-a-dozen fine singles under their belt. They play the Manning Hall at the University of London Union tonight-door open 8pm, admission £3.50. Supporting are Bolshoi and latest Peel hopefuls The Janitors.

Microdisney are the best band to come out of Ireland in a long time. Their soft melodic sound is easiest compared to a less hung up Steely Dan, if any one reading is old enough to remember them. But there's a fire in their belly when they sing about their homeland ('Love your enemies') or little LP's about world problems ('We hate you South African bastards'). They are heard at their best, if not most virtuosic, on last year's fourth best single-the wonderfully

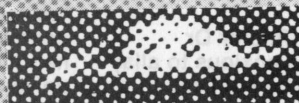


lumbering 'Birthday Girl'. Microdisney are supporting the Go-Betweens-who have a few decent tunes themselves including the almost hit single 'Spring Rain'-at the Town and County Club, Kentish Town on Wednesday April 30. Doors open 7.30pm, admission £4.

The world's best rock'n'roll band return to town shortly. The Ramones are at the Hammersmith Palais on Sunday and Monday May 4 and 5. Get your tickets now. The Ramones have probably written more songs than they've played gigs and last year could even afford to leave out 'Bonzo Goes to Bitburg'-the second best single of 85. £6 is all it costs for the best live band in the world.

## Films

With a dazzling three minute non-edited opening scene following the narrator/photographer as he shoots from the hip and only one completely naff scene Absolute Beginners is well worth a visit. Uncanny Bowie lookalike Eddie O'Connell and gorgeous pouting Patsy Kensit (as Crepe Suzette) head the supporting cast which should be as well known to you as to the producers-David Bowie, Ray Davies, Sade Adu, Eddie Tenpole, Alan Freeman, Lionel Blair, Steven Berkoff (in another raving right-wing role) and James Fox. The long hot summer of 1958 (sample newspaper headline-'PHEW-what a scorcher!') provides the



setting for the simultaneous yet incongruous growth of the teenager phenomena and racial unrest in Napoli, W11. The film is visually spectacular, the camera work frequently dizzying and overall much more enjoyable than the book.

I'm abhorred to recommend a film only showing in a cinema whose cheapest seats cost £3.70. But Alan Bleasdale's No Surrender demands to be seen somewhere. Not so much Boys from the Black Stuff as a Bouncer without too much of the Grey matter, it is an adroitly directed black comedy in a derelict Liverpool night club. Superb performances by Michael Angelis and Bernard Hill and don't be put off because it's meant to be an allegory for Northern Ireland-it isn't.

FELIX was the only paper to give Woody Allen's Broadway Danny Rose a bad review but on reflection it doesn't seem such a bad movie. It features the incredible Mia Farrow as does the brilliant Purple Rose of Cairo the best movie of 1985. The main criticism of BDR was what Allen was a megalomaniac

writing, directing, acting etc but on PROC He stays behind the camera on a skillfully old story of an actor on the screen falling in love with a woman in the audience and both of them 'physically' moving between the two worlds. Very funny and very believable, believe it or not. This double bill is showing at several cinemas around town.



## Miscellaneous

I'm only halfway through Surely you're joking, Mr Feynman, the autobiography of Nobel prize winning theoretical physicist Richard Feynman but it's already totally fascinating, especially about his time at Los Alamos-and I haven't even reached the bit in the night club where he's supposed to incorporate his Nobel Prize into his chat up lines. Available on Counterpoint/Unwin. Paperbacks for £3.95 in most bookshops.

Several classic Undertones albums are now available very cheaply-their first, The Sin of Pride is only £2.99. However the Including Feagul Sharkey sticker on Hypnotized seems to cost an extra 26p.

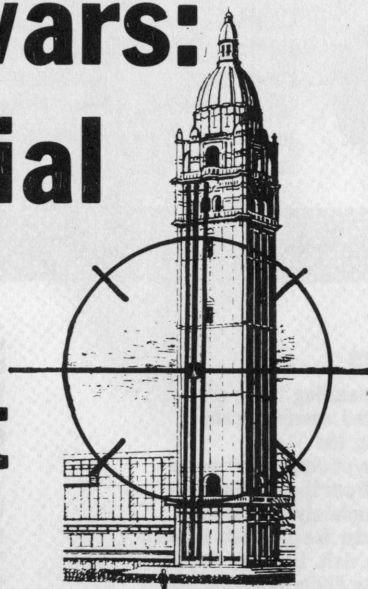
Cheapest new records in London are to be found at Camden Lock market (two minutes from Camden Town tube) on Saturday and Sunday. Excellent collector shop-Young Blood, on Portobello Road just past the flyover.

Best fortnightly music paper despite an Irish bias is Hot Press. Available for 80p from Rough Trade and the Virgin Megastore.

Best single of the moment is E equals MC². Listen carefully and you'll find every verse is about a Nic Roeg film! Even better is the eponymous B side 'This is Big Audio Dynamite' but then this is only what we'd expect from Mick Jones the man who, when he was with The Clash, wrote 'Train in Vain' (on 'London Calling', CBS records) the best rock'n'roll song ever.



# Star wars: Imperial is a target



Academics at British Universities are being encouraged to apply for Star Wars research projects. Mr George Gallagher Daggitt of the Ministry of Defence has sent letters to the Vice Chancellors of every British University. In the letter he stated that 'adequate provisions' had been made for the protection of British intellectual property rights. The funding for research, he said would come from the Americans Innovative Science of Technology programme, which has a budget of 2.7\$ billion.

Seventeen areas of research have been listed as being applicable to SDI. A number of items including composite materials, parallel high speed computers, and

lasers are relevant to Imperial. Applications will be handled through the research contracts office, which will scrutinise any contracts made—'no contracts have been accepted yet' said Mr Lobbette from the Research Contracts Office, 'although several people have expressed interest'. The deadline for applications is May 3rd.

The Pro-Rector Dr Phelps was anxious to allay fears that the publication of research work would be restricted by classification. 'There is no way that college will sign anything with classification clauses' he said. He said that Imperial, would be a 'premier leader in the competition' and could hope to gain 'an upper

target of \$20 million' from Star Wars research.

Mr Gallagher-Daggitt told FELIX that work on the Innovative Science and Technology program would not be classified. He said that assurance to this effect had been made in congress by General Yonas the Deputy Director of the SDI organisation. He refused to elaborate on the details of what Mr Yonas said as the details were apparently classified.

'Any authority which awards grants from Science and Engineering research places an obligation on researchers to publish results', said Mr Gallagher Daggitt.

He was unable to say how much money British Universities would receive but warned 'any ideas that there will be millions of pounds coming over are crazy'. He went on to say that Britain would face strong competition from the USA, Germany, France and Israel.

A source in the American Embassy told FELIX that the financial rewards for Universities were likely to be small during the first years. He said that 'upwards of 10 or 12' contracts were under negotiation including one university, Heriott-Watt (for their work on optical computers). He felt the classification would occur on a case by case basis in both industry of universities. Mr Tam Dalyell is looking into this matter in the House of Commons. A full report will be given in next week FELIX.

## Changes at the UGC

The University Grants Committee has adopted a new funding policy for the 1986/87 session. It is rumoured that there will be shocks for some universities which have been well-funded in the past.

The changes are the result of a report to the UGC by management consultant Roger McCure, who received the plans of all British Universities with the help of UGC Staff. Mr McCure concluded that the university system is near to collapse, with several institutions facing insolvency. Although income could be increased by recruiting more overseas students and attracting more research money, he was concerned that this would not make a significant difference. All Universities compete for the same pool of overseas students, and research grants are determined by the Government. However, the report recognised the differing plans of each university, some of which had taken the worse possible choices.

The UGC hopes that some institutions will be capable of support, but they will have to decide whether to continue funding particular universities on their costs.

Only 17% of students would vote Conservative in an immediate General Election according to a Marplan pole for NUS. This is compared with a claimed student vote for the Conservatives of 42% in the 1983 General Election. The survey gave Labour the lead with 35%. The Alliance were second with 27%.

Vicky Phillips of the National Organisation of Labour Students was elected NUS President at the recent NUS Annual Conference.

RCS Rugby team won the Sport's Cup CCU rugby teams 1st XVs at the end of last term.

RCS won the Sports Day on Wednesday. They scored 215 points beating RSM who scored 203 point and Guilds who scored 158 points.

Thirty competitors took part in the event. Sports Day organiser John Pope described the event as 'great fun'.

Physics student Gavin Waterson came 132nd in the London Marathon with a personal best time of 2hrs 26 minutes 45 seconds.

Prof Frank Leppington has been appointed head of the Department of Mathematics. He has been appointed to the post for five years. He will take office on the 1st September.

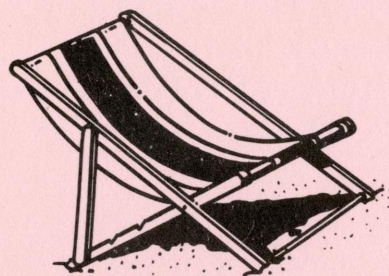
Computing student John Pope has been elected President of University of London Union Sports Council. He will represent the University of London Sports Club on the ULU Executive.

The FELIX Office is likely to move to the old kitchens behind the Lounge. College has hired an architect to work with FELIX to draw up plans for the new Office. In addition the College has offered to purchase new equipment for FELIX to compensate it for damage to existing equipment caused by the move. FELIX have still to respond to the College offer.

Two senior academics from Imperial College were elected to Fellowship of the Royal Society on 20th March. They are Prof R M Anderson, Professor of Parasite Ecology and head of the Life Sciences Department and Prof J Argyris, Emeritus Fellow of Aeronautical Structures at IC.





## News in brief





# Summer 1986



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
21 April	22	23	24	25	26 Rag Fete	27
28	29	30	1 May	2 Silwood	3	4
5 Bank Holiday	6	7	8	9	10	11
12 	13	14	15	16	17	18
19	20	21	22	23 	24	25
26 Bank Holiday	27	28	29	30	31	1 June
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20 Term Ends	21	22
23	24	25	26	27	28	29
30	1 July New Sabbaticals	2	3	4	5	6
7	8	9	1 	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1 August	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17 
18	19	20	21	22	23	24
25 Bank Holiday	26	27	28	29	30	31
1 September	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28 Term Starts Tomorrow

**FELIX** The Newspaper of  
Imperial College Union

Have A Good Holiday 