



# Felix



**NEWSPAPER OF IMPERIAL COLLEGE UNION**

## CANDIDATE DROPS BOMBSHELL

In a dramatic gesture Deputy President candidate Simon Neild withdrew his nomination at the end of his speech at yesterday's UGM. Mr Neild's decision means that Dave Parry, presently RCS Vice President, is elected unopposed as DP. Also at the meeting an appeal against disqualification by Mark Cottle, who was standing for FELIX Editor, was quashed by 197 votes to 143 on a paper ballot. Mr Cottle was disqualified because a manifesto which was considered to be in support of his campaign appeared in Guildsheet, a direct contravention of the election rules.

The meeting started with Mr Cottle's appeal. Jim Boucher of the Elections Committee explained the decision and Mr Cottle spoke in reply. The ballot was counted during the following officers' reports and was announced before the hustings began.

After the reports the meeting heard speeches from five of the six candidates for President. Jon Barnett was not present, but a speech was made by his proposer Jon Taylor who urged candidates to vote for Mr Barnett or abstain. Ian Bull spoke of his experience and proven ability to be President, whilst Gareth Fish made an outspoken attack on College, the Union and bar prices, sentiments which were echoed by David Larrington. Aidon Jennery made

noises to punctuate his proposer's speech, and Paul Simion promised to get tough with College over important issues.

The DP hustings took place next. Simon Neild spoke first, and at the end of his speech he dropped his bombshell and announced he was withdrawing. Mr Neild said that there were many things he would like to see done to improve the Union, and that in talking to his opponent he had found they had a broad area of agreement on this. He was standing down because he felt that Mr Parry's greater experience would enable him to be a better DP.

Dave Parry then made his speech despite being now unopposed. This was followed by

the Hon Sec candidates. Eric Derbyshire spoke first, again stressing his experience for the post. Ian House spoke of the need for the Union to support direct student action much more.

The FELIX Editor candidates made speeches last. Adrian James attacked this year's FELIX as being a poor copy of Private Eye and Tim Noyce thought FELIX needed to be bigger and to cater for more tastes. Peter Rodgers committed

himself to improving the written content of the paper, whilst Dave Rowe promised to brighten up the appearance of FELIX which had stayed much the same for four years.

The remaining chance to hear the candidates in action if you missed the Hustings UGM is on IC Radio on Friday evening. Voting is next Monday and Tuesday at ballot boxes in all departments. You will need your Unioncard to vote.

## BINGO!



It seemed like an ordinary day for Peter Gwee of Physics 1—until he saw last week's FELIX Bingo number that is! Lucky Peter could hardly contain himself when he found out that he had won the weekend for two in Amsterdam. As yet Peter hasn't decided who to take with him hence the presence of top Union freebie hunters, Teller and Davis attempting to muscle in on the act at the presentation ceremony—Pictured above Peter Gwee receiving his prize from STA Managing Director Dick Porter.



Aidon Jennery and his proposer, La Iatrou bringing the House down with their entertaining speech.

## Fight for Better Pay!

Dear Sir

The letter from NUPE in your last issue reflects their concern for their members who are in a low pay sector of the Universities. We hope you will press the College to answer it.

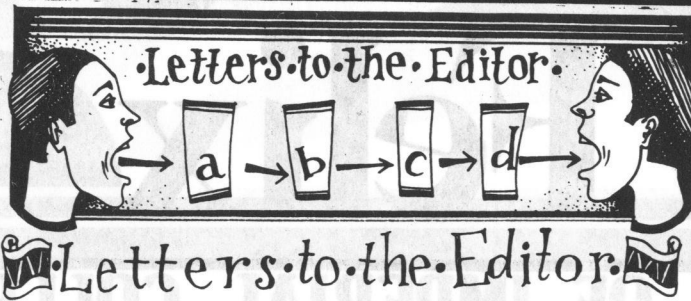
Students will know that the process of drawing conclusions from data has to be carried out with care. Thus despite the higher average costs for staff other than NUPE members, many of the ASTMS members in the technical staff qualify for social security benefits; for example, free milk for their children. Members of the College staff with a son or daughter at University probably suffer the worst financially since the student's income to the family is so low.

Thus an immediate consequence of the figures which relate to staff costs but tend to suggest salary is that the plight of students is far worse. The logic of the NUPE letter leads to the conclusion that all the College staff should supplement student grants, since students are the lowest paid sector of the Universities.

The truth of the matter is that the premise of the NUPE letter regarding the fixed percentage of the College Income being taken by wages and salary is false. For most College staff their salaries are determined on a national basis and therefore cannot be constrained by a College policy. Also it is common justice that those who have a long training period should have higher salaries when at work so as to compensate them for the long period when they earned so little.

We welcome the initiative of NUPE in entering the generality of the matter. The financial strategy of the College regarding its staff is a general area for debate. Consequent upon this is the financial strategy of HM Government towards Universities, their staff and their students. This is of greater importance.

It is our opinion that Universities should be in the 'investment' sector of the economy and not in the 'charity' sector as they now are. Only if such steps are taken by



the Government will it be possible to deal adequately with the question of low pay within the University sector.

Yours sincerely  
Harry Fairbrother  
President, ICASTMS

## No Ransom for 'Smelly Beaver'

Dear FELIX

Having read your article on the capture of Bruce the Beaver I am writing to correct your inaccuracies. LSE Students' Union will not pay any ransom in the near future until everything is verified. In the past Bruce has been kidnapped by other colleges, most recently by King's, but usually has been returned without a ransom being paid. One reason for this is that the Beaver smells (not as much now).

Incidentally FELIX seems to be suffering from an overdose of student politics—a common infliction. Every issue the letters column is used by seasoned hacks to slag off their opponents. This should be avoided if FELIX wants to be a good student newspaper (unlike *London Student*).

Yours sincerely  
Mann Kee Li  
Overseas Students Executive  
Officer, LSE Student Union

## Peace through submission to God

Dear Pallab

I read your article 'God Exists—Official' in last week's FELIX. Having also attended a part of the Debsoc lecture in which there was complete discord between speakers and the audience as to the question of the existence of God, I thought I must point out to all

those who are earnestly seeking Truth that the Qur'an, the last revealed Book (which unlike the Old Testament and Gospel, is still intact in its original pristine form), answers the question posed in the debate, and goes on to give a complete code of life for those who wish to achieve peace through submission to God both in this world and the Hereafter. The Qur'an is freely available and its meaning has been translated into English.

Yours sincerely  
T Sheriff  
Chem PG 1

## Why I Quit-Neild

Dear Pallab

At yesterday's Hustings UGM, I announced my decision to stand down from the elections for Deputy President. This leaves the post to be filled unopposed, by Dave Parry, the present Vice President of RCS. My reasons for standing, what I hoped to achieve, and my eventual reasons for withdrawal were amply put in my hustings speech yesterday, but for those either absent or asleep at the time I would like to reiterate them here.

Much has been written and said criticising the basic facilities College provides for the use of Imperial College students. However, this situation is unlikely to improve so long as College holds a monopoly on the provision of such services as refectories and bars. It must be the aim of any good student union to work to provide the students, that they purport to represent, with a viable and accountable alternative. In the past little has been done to promote either the furtherance of student union accountability or the setting up of an alternative to the Mooney monopoly.

The temptation for all union officials has been to seek their answers to burning questions through the College hack

network, a network requiring a conscious effort of opting in and hence a concept of excluding the vast majority of students at Imperial. Little has been done to try to break out of this restrictive circle. Few dep reps show any willingness to fully represent their respective departments on Union Council, and no Union officials appear to want to do anything to change this, content to sit in their office avoiding the trouble of speaking to 'ordinary students'.

In previous years when faced with the clearly unsatisfactory results producing by the 'Mooney monopoly' successive administrations have either proposed refectory boycotts which never came to fruition or have simply settle for condemnation of Mooney either in FELIX or in conversation. Unsatisfactory though the refectories are, they do provide a convenient place to have a meal, and to many people the convenience more than compensates for the poor value and quality. It is surely now time for the students' union to make a positive move towards greater independence from College; it must look forward to providing and running its own independent refectory and bar system, providing what students want and making the resultant system accountable to the students themselves.

To campaign for and implement such radical changes to the conventional view of IC Union demands a committed enthusiastic and determined Deputy President. While I am in little doubt about my enthusiasm and determination to work towards the introduction of such changes, Dave Parry's decision to stand for D. P. gave me second thoughts about standing.

In retrospect I believe that Dave Parry would probably make the better Deputy President, his experience and ability more than compensating for my enthusiasm and idealism. If however anybody agrees with the points that I have outlined above, I urge you to fight to ensure that the executive takes them up next year, and that they take Imperial College Union forward to become a union truly representing the interests of its students.

Yours sincerely  
Simon Neild

## Rag Week

The Rag Committee are to hold a 'Mini Rag Week' next week following the success of the main Rag Week last term.

Plans for the mini-week were started last term and a list of events was announced this week. There will be three Rag collections in conjunction with other London colleges and a number of other events.

On Monday the collection will be with Kings College, on Friday with QEC and on Saturday with Chelsea College. Joint collections had to be organised because IC Rag had left it too late to apply for their own collection licenses.

There will also be a Hypnosis Lecture and Demonstration by Martin S Taylor on Tuesday at 7:00pm in ME220. For this there will be a £2 entrance charge, with proceeds to Rag. And on Tuesday lunchtime there will be Silly Games in the JCR. See your CCU for further details. However, a word of warning—it is rumoured that Guilds Custare Pie Brigade will be active during the week.

## More Fascist Tory Cuts

The College is to receive £28.08m from the University Grants Committee as its recurrent grant for 1984/5 it was announced recently. This compares with £27.29m for this year and represents a 2½% cut in real terms.

The effect on College spending in areas other than salaries is likely to be greater than a 2½% cut, however. A senior academic in College has estimated the result will be a 10% cut in expenditure on teaching.

The College is presently formulating all its response to the UGC's questionnaire on the future of higher education. A draft reply was considered at a Board of Studies meeting on Wednesday and was approved with minor alterations. It will now be considered by the Governors at their meeting on 16 March. Professor Swanson, Pro-Rector, who is co-ordinating the response will be speaking about the College's reply next Tuesday at 1:00pm in ME220. FELIX will be bringing you more details of the College's reply in a forthcoming issue.

## Not in Public Sean!



Next year's RCS Exec can't wait to get started! They were ratified at the Results UGM last Tuesday and they're just raring to go. Ann Collins was elected RCS President with a majority of 256 votes and Sean Davis was elected Vice President with a majority of 114 votes. Paul Bloomfield (Hon Sec), Jane Ryder (AAO) and Paul Richardson (HJT) were unopposed.

## Laundry behind Schedule

The Southside Central Launderette will not be completed by the scheduled date, next Monday. Don Clark, Estates Secretary, said that the work was '3 to 4 weeks' behind, and the launderette will not now open until next term. The new gym in Southside will also not be ready until next term.

The management of the launderette will be undertaken by the new Managing Surveyor (Residences), and the finances of the service will be under the Residence Account. The charges for washing and drying have not yet been fixed, but they will take into account the cost of providing the facilities and for depreciation of equipment.

## Southside Halls to close?

The consequences of the recent inspection of the Southside Halls by GLC Fire Inspectors could be far more serious than previously reported. The College is to receive a report from the inspectors in about eight weeks time which it is expected will call for a major re-appraisal of fire precautions in the halls and may include structural changes.

The inspectors are understood to be worried by the staircase layout of the halls since fire could quickly spread up the stair-wells. The layout of the gallery levels is also a cause for concern and may have to be altered by the installation of extra partitions to act as fire screens.

Mr Don Clarke, College Estates Secretary, would not comment on the likely findings of

the report, saying he would wait until the report was delivered to College before making any statement. He said that the inspectors had asked at the time of their visit for certain action to be taken immediately, including the removal of fridges, dustbins and bicycles from the staircases. It is thought they also made clear their concern over the structural layout of the building, but the College is not required to take action until the report is complete.

The inspection was originally requested by the College in view of the increased use of the halls as a hotel in summer. It is difficult to see what steps could be taken to alter the basic structure of the halls, but it seems likely that the

## NUS Debate

The motion 'This house believes that ICU does not need the NUS' was narrowly carried on Tuesday at a meeting jointly organised by the Conservative and Liberal societies.

Proposing the motion, Federation of Conservative Students Vice-Chairman, Marc Glendenning spoke of his main objection to the NUS, that many students were forced against their wishes to become members of an organisation with whose policies they did not agree. NUS Secretary Jane Taylor opposing said that all students could vote to determine whether their student union was in the NUS. She claimed the NUS was an effective voice representing students.

Seconding the motion J Martin Taylor, former ICU External Affairs Officer, spoke of the expense of NUS membership, which would cost ICU over £15,000. He said this would result in severe cuts in Union spending on student activities. Seconding the opposition Philip Nathan (ex-IC Liberal Club chairman) claimed that NUS's work resulted in large benefits to individual students and student unions which far outweighed the cost of membership.

After speeches from the floor the proposers made summing-up speeches and on the vote the motion was carried by a one-vote margin.

College will at least be required to break each stair-well up into small units by the installation of fire doors and screens to prevent fire spreading. Another possibility would be the installation of more sophisticated fire detection and control equipment. Whatever steps are taken considerable expense would be involved, which raises the question of how the College would pay for the extra precautions.

Meanwhile on most hall landings the fridges have been moved to on of the side lobbies after the inspectors' visit. However this is only seen as a temporary solution, since it is thought unlikely such a move would satisfy the inspectors. A permanent solution has still to be formed.

# Same Old Story UGM Sketch

The excessive number of candidates for sabbatical posts has gradually been whittled down this week but that didn't prevent yesterday's hustings reaching epic proportions. The meeting's length was matched only by its boredom and necessitates the awarding of the second annual Agatha Christie This Meeting Will Run and Run Award to Chairman Passmore who unfortunately asked seven or eight questions to each of the candidates when lesser men would have settled for one. The situation was much exacerbated

by Hon Sec Sean Davis' burning desire to disqualify a candidate which he succeeded in doing when the meeting upheld the decision of both Executive and Elections Committee in disqualifying Mark Cottle, previously a candidate for FELIX Editor. Indeed it seemed to take longer to disqualify a candidate from an election than it did to actually hear them speak.

This took about thirty minutes and then the meeting quickly moved through minutes and officers reports—not even stopping to point out that the much feared Managing Surveyor (Residences) has already been appointed—the aptly named Mr P Hallworth will take up his appointment on May Day. They're a witty lot over in

Sherfield.

Only five of the six Presidential candidates turned up on time and broadly seemed to present the same policy—a reduction in rape alarm prices bought from the bar at Harlington during rent strikes—or something equally ridiculous. In other words the same old cliched policies—doncha hate 'em!

There were slight variations on this theme of course—Ian Bull boasted of his previous Presidential conquests, Gareth Fish and his proposer Steve Higgins worried many by pointing out they both had picked up a nasty cold that morning whilst Aidon Jennery and partner La Iatrou presented what was described by cultured observers as a variation on an

idea by Viktor Borge. Either way they all became rather tiresome.

People frequently complain about the low standards of writing in FELIX but this reached ridiculous proportions yesterday as the concepts of FELIX Editor and journalist became mutually exclusive. This writer had hoped to sit in on all the meeting to acquire material for his customarily witty sketch but his aspirations to become FELIX Editor led to his confinement in a small corridor behind the Great Hall (under the doe-eyed stare of new RCSU President Ann Collins) for the duration of the other three candidates' speeches. Call it what you will—vicious circle, catch 22 or just plain old tautology—but doncha love it!

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## More Elections

The elections for the following Union Officers will take place at the ICU Results UGM on Thursday 8 March at 1:00pm in the Great Hall:

1. Academic Affairs Officer
2. Community Action Group Chairman
3. Entertainments Officer
4. External Affairs Officer
5. Internal Services Chairman
6. Rag Chairman

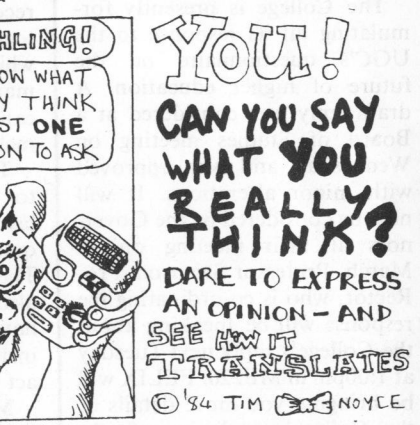
7. UGM Chairman
8. Welfare Officer

The papers are up in the central foyer of the Union Building on the ground floor. Any prospective candidate must have one proposer and ten seconders. All signatures must be full members of IC Union. Papers will come down at 5:30pm on Tuesday 6 March 1984.

Gaynor Lewis

# GOOKER

# The TRUTH Game



**How to apply to Halls and Houses**

If you have never lived in Hall or a student House before, you are likely to get a place if you are going to be in your final year next year, and a number of second year new applicants are also given places. If you have lived in this type of accommodation already and you intend to reapply, remember that you only have a 10% chance of getting in, and also that the reapplicants are selected by a committee for each Hall or House, so there is little point in applying to a different place from where you spent your previous year.

**Applying to Intercollegiate Halls**

Read Student Services' Accommodation Guide, and decide which Hall is for you. Ring that Hall and ask them to send you a form. You can apply to all the Halls in order of preference.

**Halls**

**Beit** £21.50 and £23.00 per week.

**Ratio** 87 male, 28 female  
Hall Facilities Kitchen, TV lounge, laundry

**Location** Prince Consort Road  
**Advantages** very near College!

**Disadvantages** too near College!, noise from Union activities etc, rooms small, few kitchens.

**Garden** single £21.50, twin £16.50, triple £12.50.

**Ratio** 83 men  
**Rooms** few single, without washbasins, double and triple with washbasins.

**Facilities** kitchens, study room, television room, common room, laundry

**Location** Northside of Princes Gardens.

**Advantages** Triple rooms are very cheap.

**Disadvantages** Sharing room with 2 other people can be miserable.

**Linstead** single £33.50, twin £26.50

**Ratio** 140 male 48 female  
**Rooms** Single in main block, double in extension. Every 8 rooms have own small kitchen and fridge.

**Hall facilities** Laundry, bar, 2 gallery levels with TV and games machines.

**Location** East side of Princes Gardens.

**Advantages** Probably the best facilities of any Hall. Good social life.

**Disadvantages** College persist in providing compulsory evening meals during the week—and charging you for them! (You can sign out for a max of two per week). If you choose to eat where, when and if you want, you end up paying twice over.

**ACCOMMODATION GUIDE**

It's March again, and it's time to start thinking about where you're going to live next year, especially if you are after College accommodation. College accommodation comes in two sorts: **Halls and Houses** are buildings which are owned by the College; **Head Tenancies** are buildings which are rented by College and sub-let to you. In addition there are the **Intercollegiate Halls**, which are owned and let by the University of London. Here is a brief guide to what is available. For more information and application forms, go to 15 Princes Gardens and see Anna or Karen. It will also help to talk to people who have lived in the accommodation where you intend to apply.

**CLOSING DATE FOR APPLICATIONS IS 9 MARCH.**

**Montpelier** single £23.00, double £18.00

**Ratio** 78 postgraduates and 3 married couples

**Rooms** single  
**Hall facilities** kitchens on every floor. Common room, TV room, laundry, garden.

**Location** Montpelier St, near Harrods.

**Advantages** Location, cooking facilities

**Disadvantages** You won't believe how tiny the rooms are 'till you've been inside one! There are no washbasins in rooms. The bathrooms have 2 washbasins, with separate toilet and bath. It seems students have no privacy when washing (and this is a mixed hall!).

**Southside** £25.00 comprising 4 Halls

**Falmouth & Keogh** 159 male, 31 female

**Selkirk** 48 male, 24 female  
**Tizard** 94 male, 24 female

**Rooms** single with washbasin  
**Hall facilities** kitchens, laundries, TV and games rooms.

**Location** South side of Princes Gardens

**Advantages** nice rooms (possibly the biggest on offer), good social life.

**Disadvantages** Two cookers and one microwave for each Hall—also the kitchens are tiny and cramped.

**Weeks** £25.00

**Ratio** 50 male, 16 female  
**Rooms** single with washbasin

**Hall facilities** lift to every floor, kitchen on each floor, 1 common room, bar, games room, garden.

**Advantages** kitchens on every floor, (8 to a floor), large rooms.

**Disadvantages** you have to promise not to spill anything on the floor because Weeks is made of water-soluble concrete!

**Houses**

All single £21.50, twin £16.50, triple £12.50

**Bernard Sunley**  
40-44 Evelyn Gdns 108 men

**Holbein**  
61-63 Evelyn Gdns 66 men

**Mining**  
51, 54-56 Evelyn Gdns 53 male, 26 female.

**Willis Jackson**

64, 66-9 Evelyn Gdns 64 male, 18 female

**Rayleigh**

14 Queensberry Place 14 male 6 female

**Rooms** mostly shared, few singles for third years.

**Location** 15 mins from College  
**Facilities** kitchens, laundries, dining rooms, common rooms, bars and games rooms in the basement of each.

**Advantages and Disadvantages**

The Houses are all quite near College. Most rooms are shared—there are just a few singles for final year students and postgrads. The atmosphere of the all-male Houses can be rowdy. The provision of kitchens is very good—some Houses have kitchens on every floor.

**How to Apply for Head Tenancies**

You are only allowed to make *one* application to Head Tenancies, as well as applications to Halls, Houses and Intercollegiate Halls. You must apply in a group of the right number of people for the residence that you want. For instance, if you apply in a group of six, you cannot make another application on your own. If one of your group drops out in term time, you must pay his/her rent or find a replacement (however, they must give you notice).

Get a yellow leaflet from Student Services. This explains all the forms you have to fill in.

Although many, if not most of the rooms in flats are doubles, the College disapproval of cohabiting couples does not apply!

**Hamlet Gardens**  
with central heating: single £24, twin £21.50

without: single £22, twin £19  
Flats 1 for 3 people, 2 for 4, 10 for 6, 7 for 7, 11 for 8.

**Location** Hammersmith (Ravenscourt Park tube)

**Facilities** Lounge, kitchen and bathroom in all flats. Mostly shared rooms. Central heating being introduced.

**Lexham Gardens** single £24.27, twin £21.50-23.50 depending on location.

Flats 14 for 1 person, 24 for 2, 4 for 3, 2 for 4, 3 for 5, 9 for 6, 1 for 8.  
**Location** Between Gloucester Rd and Earls Court

**Facilities** Kitchen & bathroom, no lounge. Large variety of flats available. Some centrally heated.

**85 Lexham Gardens**

Flats 1 for 3, 2 for 4.

**8 Earls Court Square** single £28-£35, twin £21-£27.

**Rooms & Flats** 3 single flats, 6 for 2, 2 for 3.

**Location** near Earls Court tube  
**Facilities** Most units have their own cooking facilities, and there is a large communal kitchen for those who do not.

**Fremantle**

**Rooms** 133 single and double.

**Location** West Cromwell Road near Earls Court Road.

**Facilities** Rooms all have basins, telephone and radio. Some also have own bathrooms. Bathrooms and fridges are in rather short supply. Some single rooms are small. Large kitchen, TV room and bar. Laundry and freezers. Garden: Good social life.

**Gerrard Mansions**

5 double flats being renegotiated by College.

**The alternatives**

If you have lots of money and are prepared to take part in what is more or less a lottery, you may get a penthouse flat in Southside or the Mews flat. The penthouse flats consist of one large single, one tiny single and one double room plus lounge, kitchen and bathroom. Laundry facilities in the Southside Halls must be used. The Mews flat has two double rooms plus lounge kitchen and bathroom.

**Intercollegiate Halls**, although these offer good facilities on paper, they have a major disadvantage in that they offer compulsory full board apart from weekday lunches and they are all far away in ULU-land (WC1, Bloomsbury) so all though you get the opportunity to fraternise with non-scientists, you miss out a hell of a lot of your IC social life. The deadline for applications is 30 April 1984.

**Private Sector** the Student Services Office has information on a large amount of Private Sector Accommodation, especially in September.

# Student Travel is at 74 Old Brompton Road



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# THE PIMLICO CONNECTION

The Pimlico Connection started eight years ago, when twelve electrical engineering students began 'tutoring' at nearby Pimlico Comprehensive (hence the name of the society). Since then the project has steadily developed until now around eighty students are involved each year, tutoring six local schools. Outside recognition of 'Pimlico's' educational value has come from the Royal Society of Arts, with an Education for Capability award last year.

## Tutoring

Tutoring involves students working with small groups of schoolchildren within normal classes, usually during practical lessons. The aim is to give the pupils more help and attention than a teacher alone could provide. Because students are often closer to the pupils in both age and attitude than the teacher, the kids find it easier to ask questions and seek help. Tutoring is not at all like formal teaching—the atmosphere is usually friendly, with the tutors in a role similar to that of post-graduates helping out in practicals here at Imperial. The teachers still retain overall responsibility and co-ordinate and supervise the lessons.

## Why do people do it?

Some students are interested in becoming teachers, and so try tutoring to decide if teaching is likely to be right for them. Others have no intention to become teachers, but try tutoring because they think it will be fun. It usually is, because the work is not taxing, the kids are enjoyable to be with and tutoring makes a pleasant change from the abstraction and day-to-day slog of university life. Many students find that tutoring is of value academically because it gives practice in communicating scientific ideas simply and effectively. People on the scheme often say that it helps them realise that one of the major problems for scientists is their inability to communicate properly with people outside their particular discipline.

## What involved?

Tutoring is usually for a couple of hours on Wednesday afternoons from October to mid-February. Most of the kids are first and second years at the four comprehensives, because they are at the age when interest in science, especially amongst girls, needs most encouragement. Older age groups are also tutored, up to an Electronics Workshop for Sixth Formers. The youngest pupils are those aged 10/11 in their final year at the two primary schools, Fox and St Clement and St James'. Thus tutors can have some choice over the sort of age-group they would like to tutor.

The same choice applies to the subjects tutored. General Science and Maths are the most common, at all age groups. Students with workshop experience help out with metalwork, woodwork and engineering drawing. The work isn't difficult—the main thing is to sort out problems and get across ideas in a simple and easily understood way.

All tutors stay with the same class throughout the tutoring period, so you get to

know the kids well. The idea of teaching hordes of unruly thirteen-year-olds seems to put many people off. But tutoring isn't like teaching at all. You work with small groups, and once the kids realise you're not a despised 'teacher', they become friendly and enthusiastic. In fact they're often far more interested in you than the work, so you're continually being asked about your private life: 'Have you got a boy/girl-friend?', 'How's your sex life?' and so on. It's hopeless to parry this sort of question with 'Oh, look at this equation—isn't the proof interesting!' All one can do is ask them how *their* sex life is going, which embarrasses them in turn.

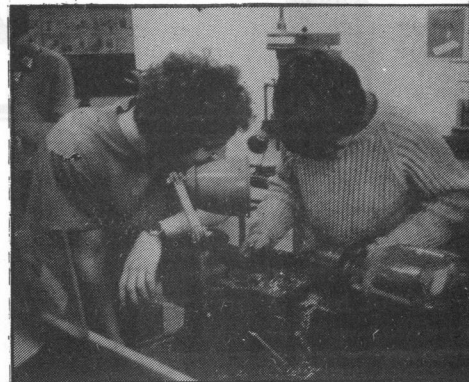
## A Typical Lesson

A tutor wrote the following account of a typical lesson for this article.

'I've been tutoring 10/11 year olds at Fox Primary this year. The mixed-ability group I work with each week consists of four girls and two boys.

'Imagine you're running along carrying a ball and you drop it as you cross a line on the playground. Will the ball land on the line, in front of it or behind it?'

The boys tend to say the first thing that occurs to them, and get it wrong. They, however, learn quickly as they try it out. The girls tend to think harder and their initial



answers are often right, but they are reluctant to speak up or show it in practice for fear of being wrong. One girl, Trixie, said 'It will land on the line, because when you drop something, it goes straight down. Like we showed last week.' Another girl, Emily believed 'The ball will land in front of the line when you drop it, it sort of...carries on.'

Everyone writes down what they think will happen. We then troop out to test it in practice. The kids work in twos—one running at different speeds and with different objects to drop, another taking measurements and writing them down as they occur. When enough people have fallen over and hurt themselves and enough results tables have blown away in the wind, we all go back indoors to write the lesson up and discuss the results. Hopefully conservation of momentum will have been shown, if not proved. The science is at a simple level, but as it's so basic it's important the kids understand it properly, or at least have a qualitative feel for the ideas involved.'

Tony Atkins

**On Tuesday 6 March there will be a Recruiting Lunch from 12:30 in Elec Eng 606. This will give anyone who is interested a chance to meet students who have tutored this year, and receive more information about how the scheme is run.**

**If you are interested in 'Pimlico' but unable to come to the introductory meeting, please just contact Dr J S R Goodlad, Elec Eng 501 (int 3080) or Zygmund Lozinski, DoC 3.**



# CARNIVAL

## MAD MARCH II

Cheap Beer promotion  
Bar 'til 2am

# FAMILY ENTERTAINMENT » ALL NIGHT LONG



## ALL'S WELLE WITH THE ORSONS

For those who like to categorise music the Orson Family offer quite a few choices. They've been termed rockabilly, punkabilly, psychobilly and now lately crampabilly. This is further evidence of the shift towards old, traditional values and away from the despair of a few years ago when everything was suffixed with -ism—rockism, minimalism and so on. The Orson Family aren't alone in this rediscovery of pre-rock'n'roll styles—two bands who played college last term, the Chevalier Brothers and Helen and the Horns, are doing well with their furious jump-jive and melodic country and western respectively—but the Orsons are certainly well ahead of the field having released a six-track mini-LP *The River of Desire* (new Rose).

Most songs feature the chunky, abrasive guitars of Ruby and Vernon over the backing beat supplied by Brewster which is precise on the title track, pummelling on *Monster of Briarly Wood* and ever-so-slightly derivative of the shifting rhythms of the Ruts' *Babylon Burning* on *Breakout*. All of this is overlaid by manic singer Skully who frequently sounds like the highly eccentric Captain Beefheart but shows his range on the plaintive *Ball and Chain* and Buddy Hollyisms on the quirky *Heartbeat*.

The NME liked them live last week, I like their record this week and you should like them tonight.

Peter Rodgers

## COOK DA BOOKS – HOT OFF THE PRESSES

Cook da Books have come a long way in geographical if not musical terms since their formation as the not quite so snappy Cook the Books in Liverpool's Fazackerly district about three years ago.

Their debut single—*Piggie in the Middle Eight*—was a catchy reggae-dub crossover produced by Dennis Bovell and reminiscent of the Police with wonderfully resonant bass and coarse Stingy vocal. The B-side was a medley of well-known television theme tunes (including *The Sweeney* and *Hawaii Five-O*) played in the same dub style.

Neither this nor follow-ups *Low Profile* and *I Wouldn't Want to Knock It!* achieved any chart success although the latter marked a distinct change in direction.

The reggae influences were abandoned and the bass which previously defined the distinctive shape of the melody was replaced with a leaden thud which totally undermined their move to what may well have been some very fine fleet-footed electro-pop.

However by now these were only minor irritations as by a stroke of luck the band had become big in France—courtesy of the single *Your Eyes* taken from a film soundtrack. The single charted all over Europe and even resulted in an appearance on one of the Top of the Pops occasional Eurochart rundowns.

Whilst this was happening they were also given the support slot on what was to be the last Undertones tour. Unfor-

tunately they seem to have learned little from the masters as their soon-to-be-released single *Caress Me* on Virgin subsidiary 10, marks the final stage in the transition from a quirky independent band to conformist corporation chart-fodder via lavish production, female backing singers, lyrics like 'you're nothing more than a viper' (shades of ragged tigers?) and endless refrains of 'yeaah, yeaah wowowo'. Unfortunately this seems to be what the people want. Live however they may be a different proposition as they are still hip enough to do John Peel sessions.

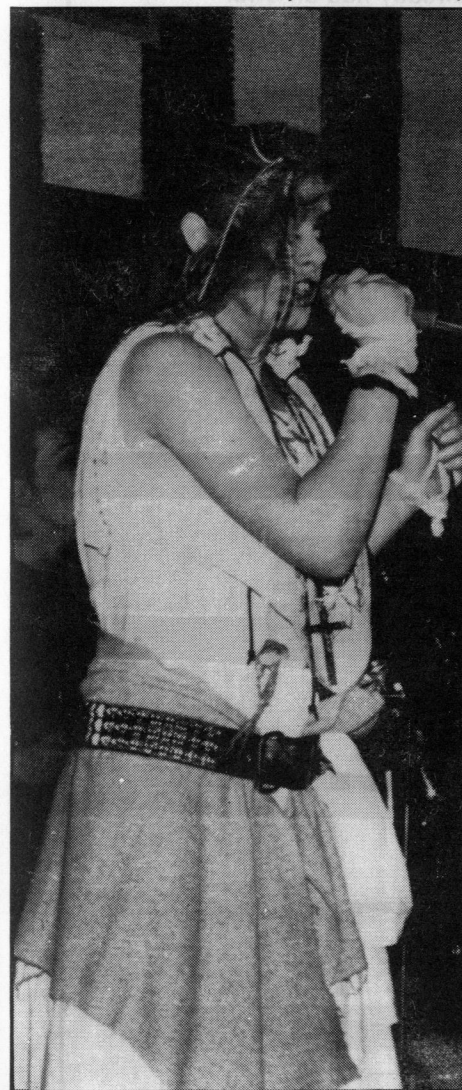
Peter Rodgers

## Running Order (Approx)

- 7.00 Doors Open
- 8.30 New Model Army Concert Hall
- 9.30 Skeletal Family Ground Floor
- 10.30 Serious Drinking Concert Hall
- 11.30 Orson Family Ground Floor
- 12.30 Cook da Books Concert Hall
- 2.00 Films (free coffee) Ground floor

Also on the first floor from 8:30: steel bands, 2 discos, jazz, moon-lit barbeque, John Hegley and the Popticians.

Photo by Malcolm Gray



Tonight's Carnival marks a speedy return to IC for Yorkshire-based goth/punk outfit the Skeletal Family. Their Lounge Lizards gig of a month ago was enthusiastically received (by me) and they definitely warrant arriving on time to see. If you want to find out more dig out FELIX No 666 but in the meantime here's a picture of lead singer Anne-Marie.

## ROCK'N'REAL ALE

Serious Drinking could be said to be an acquired taste. John Peel has gone for the odd tippie of Serious Drinking on several occasions, but otherwise they remain one of the more popular of the lesser known bands.

At the Hammersmith Palais last December they had already downed six or seven pints but still managed to amble on stage with all the ceremony of guests lining up for a wedding photograph.

Serious Drinking have been described as 'a proper punk band for the 80s'; ie not a band decked out in studs and leather, but still with (light hearted) anarchistic ideas. Their 13-track LP is called *The*

*Revolution Starts at Closing Time* and includes such punky classics as *TV Song* and *12XU/Bobby Moore is Innocent*. Also on the album is a mixed bag of songs about football and Sgt Ernie Bilko who is also (quite-rightly) featured on the label and sleeve. A lot of the second side resembles early Madness/Specials so if you've had several drinks you might find yourself bopping along to such goodies as *Baby I'm Dying a Death*, *Winter's Over* and *Love on the Terraces*. Serious Drinking aren't to be taken too seriously, but it might be an idea to get to the bar in advance tonight.

Julian Reynolds

## NEW MODEL ARMY

Friday's Carnival is a rare opportunity to catch New Model Army in a London appearance. The band play rock music, in the broadest sense of the word, with a cathartic edge of commitment reminiscent of The Alarm but their appeal stems from strong songs with incisive lyrics rather than two foot high hair-dos. In fact, as they say in journalese, the band have an image problem which to you and I means that the lead singer is an ugly bastard. Although he is short of teeth, that is certainly not true of the music.

Many of NMA's lyrics deal with life in their home town of Bradford; songs of a dead-end city absorbed in its own self-perpetuating rituals. Fellow locals J B Priestley and Keith Waterhouse wrote of warmth and intimacy but NMA confront lethargy, frustrated dreams and Tetley Bittermen.

Don't get the impression that NMA wallow in misery—they are a tonic, something that won't go amiss at IC with its own brand of apathy to contend with.

J M Cottom

## MARCHING ON!





# 1984 GRADUATES

## WHATEVER YOU'VE BEEN READING...

Digital are the inventors of the minicomputer, and the second largest computer manufacturer in the world. As the highly successful UK operation of one of the USA's largest companies, there are probably few organisations who can rival our offer to the best Graduates of 1984.

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**...THE 300 WORDS ABOVE  
WILL BE WHAT YOUR TIME  
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HAS BEEN LEADING TO.**

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**digital**

# INTERNATIONAL EVENING

- International supper
- Cultural displays
- Disco
- Only £2!

JCR Sherfield  
7:30 Sat 10 March

## Organisers

Chinese, Cypriot, Friends of Palestine, Hellenic, Indian, Pakistan, Latin American, Nigerian, Singapore, Sri Lankan Society and Kensington Committee of Friendship.

## Natural History Society

trip to

## Epping Forrest

on Sunday 4th March  
10:00am Beit Arch  
Price: Free

## Chinese Society

present

## Farewell Party

6:30pm Lower Refectory  
9th March

Food

Prize-giving performances

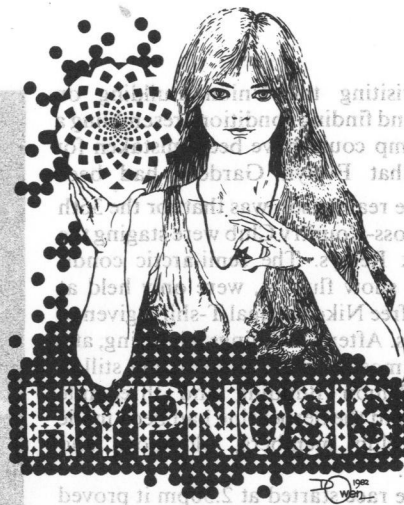
# Rag Week II — The Fiasco Continues

- Monday** Street Collection  
**Tuesday** lunchtime: Silly Games in JCR  
7:00pm Hypnosis lecture-demonstration ME220  
**Friday** Street Collection Meet CCU Offices  
5:30pm.  
**Saturday** Guilds Pyjama Rag  
RCS Leap Frog Race  
Meet CCU Offices at 9:00am.

Imperial College Rag proudly presents

## MARTIN S TAYLOR

In his celebrated lecture-demonstration



Room 220  
Dept of Mechanical  
Engineering  
Exhibition Road SW7

All welcome!

7-10pm  
Tuesday March 6  
Admission £2

# SOUTHSIDE BAR

**Fri 2nd March**  
**DISCO in Real Ale Bar.**  
**LIVE BAND in Main Bar.**  
**Bitter 50p pint.**  
**Lager/Cider 54p pint.**  
**Guinness 60p pint.**  
**Prices fixed today and tomorrow.**

**Next week: Guest Beer**  
**GREENE KING ABBOT**

# SMALL ADS

## FOR SALE

- **Avenger** 1981, 1.3LS, excellent condition, £16.25. Tel Eric on int 3838.
- **Man's full length leather coat**, size large, good condition. £350.00. Please contact D Rashid, Civ Eng 3.
- **Kodak Disc 4000 camera**, new, boxed, with two discs, unwanted prize, £20, Jon Arno, Briscoe Lab, int 4140.
- **Dinner Suit**. 38" chest, 32" waist, £150.00. Martin S Taylor, int 4518 or 223 1105.

## ANNOUNCEMENTS

● **The Motorised Mascot** of the Royal College of Science will be travelling round College on Monday and Tuesday lunch times. Candidates who wish to submit a poster for display thereon must hand in to RCSU Office by 5:30pm today. Cost £2 for petrol.

## LOST & FOUND

● **Lost from Whitchurch airfield Bristol** 1 rain, approx 2hrs long, wet look, reward—'steely smile.

## PERSONAL

- **Let's bury the Kentucky bucket**, flat deus.
- **Concrete and all that crap** forces me to take a brief respite. Och Aye The Noo—see you on the 9th. 'T.I.M.'
- **Leuchars 5-7/3/84**. Let's watch the 43rd beat the hell outta them hooters!

● **Please send Miss Batty in future**, flat 2; signed flat 1.

● **Even the bearded lozenge** destroys cups!

● **The Kidderminster Coconut** had better watch out for the Bounty Hunters. PS: Happy Birthday Steve.

● **Tim and Spad**: Stop playing horses—you're disturbing the neighbours.

● **Pussycat says to the foolish hypnotist**, you are in for a nasty surprise: my foot can be made to connect with your chin whether you are standing, sitting or lying crushed underfoot and seven steel claws should make quite an impression.

● **Do you want to watch someone** do it properly? Does the name 'Dickie Dickins' appeal to you? Then come to the Imperial College Symphony Orchestra tonight at 8:00pm in the Great Hall. Programme includes Tchaikovsky's 5th Symphony and Strauss' Till Eulenspiegel. Cheese and Wine to follow.

● **The Stud of Lexham** wishes it to be known that 'My name, is Michael Cain'.

● **CEI say EH** phone home.....

● **Where does Linn** stand in the ove triangle? Up the Creek I fear! I am JR.

● **Dave Larrington would like** to thank everyone who came to Bristol and vanquished the the plebs of Rolls-Royce and South Bristol Technical

● **Everybody smokes it**, but Sooty doesn't get HI, he's sometimes sick in the bath.

College.

● **ESK ZENNA** who David is, she knows!!

● **Apple Crumble** came with a jam booty but couldn't stand the sickly sweetness and crumbled into damp patch's arms.

● **Dear Cedric**, surely Judith can help you find your desire!

● **Kathy**—we love your new black dressing gown.

● **Interested in leather**, chains, whips or semolina? Contact Sheerah of Giffirin NOW! PS Silly messages rule ok?

● **To all the friends I've discovered** over the past week—Thanks, Ann.

● **Organ transplants** performed to music at 81 Lexham Cdns.

● **Kevin's new service: Recorded Delivery.**

● **Kevin**—Wasn't that a strange place to put Michael's mouthpiece?

● **Kevin McCheeseecake**: After Sunday I know you are the sweet-est.

● **Now you know**, sheriff

modelling to the study of physiological systems and general biomedical engineering problems. Either an Elec Eng or Computer Science student wanted.

**Dr G H Kelsall, B312 Min Res Eng**

Electrochemistry of (semi-)conducting sulphide and oxide minerals, electrohydrometallurgical extraction of metals from minerals, corrosion and electrodeposition of metals, electro-synthesis of oxidants and reductants for leaching mineals. Growth kinetics and properties of electrogenerated bubbles. Surface chemistry of minerals and surfactant adsorption on minerals.

**Drs L Pyle and H Michels 616 and 522 Chem Eng**

The simultaneous movement under gravity of solid and fluid phases poses important process engineering problems. We are developing a novel process design which uses partial fluidisation and we wish to extend the work to include the influence of physical and operating parameters on the movement of the different phases. The work involves studies on simple experimental models, and, in parallel, the development and testing of theoretical models for multiphase flows.

**Dr M Spiro, 445A Chemistry**

Reactions taking place at solid/liquid interfaces: Heterogeneous catalysis of solution reactions. Kinetics of tea/coffee infusion. Determination of transport properties of ions in various electrolyte solutions.

## UROP

The members of staff below are currently able to take students on the Undergraduate Research Opportunities Programme. Students interested should contact them direct.

**Dr R I Kitney, 811B Elec Eng**  
The application of signal analysis control theory and computer

# The Hyde Park Relay

by Nigel Fenwick

Anyone visiting the Union Building on Saturday and finding conditions resembling a refugee camp could have been mistaken for thinking that Evelyn Gardens had been nuked'. The real reason was that for the 36th year the Cross-Country Club were staging the Hyde Park Relays. The semi-arctic conditions, with snow flurries, were only held at bay by the free Nike thermal T-shirts given to competitors. After a mornings labouring, at a time when most sensible students are still in bed, the Union Building and three-mile course around the Serpentine had been made ready by club members, old boys and hangers-on.



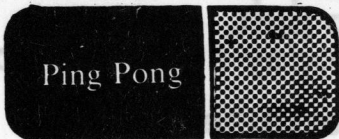
When the race started at 2:30pm it proved to hold no obstacles for the Loughborough team who clocked another victory in 84min 03sec ahead of the whinging Birmingham Univ squad who seemed to think that they were the only team composed of bone-fide students, a fact which is undoubtedly true. Third place went to the West London Institute of Higher Education. The Loughborough team lead the way among the afternoon's victors by not returning the trophy they won last year—rumour has it that it was melted down to buy matching tracksuits and 'wet-look' satin shorts. Fastest lap went to Dave Clarke of WLIHE with a

time of 13min 19sec. Clarke in his late twenties and running for about the tenth time has allegedly become a 'student' again after a few years on the staff team.

The ladies race was won by WLIHE, who also didn't return the trophy they won last year having pawned it to buy matching Nora Batty tights, in a new course record time of 46min 57secs. It was thus surprising that the fastest lap went to Crewe & Alsager's Kay Barringham, who was neither man nor ex-

student and so received the prize uncontested. Her team finished nearly 3mins behind WLIHE and in second place due to a very neat vanishing act performed by Kent ladies.

In amongst all this you may ask was there an IC team and where did it finish? The awful truth is that they were roundly hammered by an aging old boys team more noted for their receding hairlines, faded vests and alcoholic tremors than ay athletic ability. All the same they finished in 34th place.



No report last week for those of you who wondered as not much happened. This week, however, a bumper edition.

Team 1 lost despite maintaining that they really are trying to avoid relegation. They lost to Dept of Employment who in the last table were *bottom!* Perhaps you should play with your snooker cue Chris.

Team 3 played twice. Tuesday saw Exiles come and go. We lost but successfully took the piss after one piece of 'gamesmanship' when one of our team had fought back from 3-12 down to 19-20. On making a noise on a net cord for deuce the opponent 'demanded' a let, whence the game was lost to us. Subsequently there was no initiative among us to play so we extracted the Michael.

Wednesday, however, saw a different team. We all travelled to Barbican (long way for us) to play. City University and thanks to Wladek playing like a hero (yet again) we won!

All this dwindles into significances, however, when reporting Team 4's game. In the continuation of their remarkable recovery they BEAT Lyndhurst III who are currently lying 4th in the division. Thanks to Mike Smith and especially to Brian Norminton who won all his.

Team 5 have actually now submitted reports for their last three games which

apparently they won. Their most convincing margin being 9-0 against LSE. I have been asked to say thanks to Phillip Milne for his Mega style batwork in winning virtually everything and to give condolences to shiny Hing Man who has been very unlucky recently not to realise any results.

Next week's report will contain the AGM election results, and if you missed the meeting Tough!

Oh, yes, matches and things. Mens 2 have won one and lost one to the same team since the last edict.



I couldn't think of anything to write about in this report, until Pallab mentioned SEX. I thought that this was such a good idea to write about that now there will be no Badminton this Friday. Instead, at 7:30pm in Southside, Chris Bean will give a talk on 'other uses for badminton racquets'.

Monday Badminton will take the form of a Roman style orgy in Southside for the rest of this term. However, on all the other remaining Fridays, 'suppose we'd better play some badminton and not start the 'beating' sessions until about 10:00pm.

The last report of the term will hopefully contain as many items of scandal as possible. Anyone who wants to embarrass other members of the club please contact me with details. They don't necessarily have to be entirely accurate.

Hi Mom and Pa  
Having a great time here playing for IC in between appearances for second div London.

Gotten my name in the College rag FELIX: other week cept there was no final score—well course we won man 99-90 how could we lose with me playing?

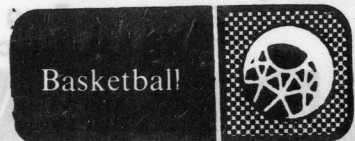
Anyways last week we also beat QMC 88-71.

The guys tell me theys big rivals, being the only team to have beaten Imperial this season, but I won't take no shit from them muthfukres!

I just went on court and put in ten points in a row and they never recovered. The rest of the guys played reasonable defence—we stopped the guy with the bun on his head from scoring as freely as in previous matches, even their 7'2" guy couldn't save them. Offence the guys would give the ball so as I could pull some superb baseline drives etc.

If was a good match but I had it sown up that I rest most of the first half!

Gotta go the freakshow man.  
Love Robert.



# Ladies Sport

At last the long awaited report. All this really has to say is about the new exercise bicycle in the multigym in the sports centre. The bike has been bought to encourage ladies to use the multigym, so do please give it a go. The only catch is would all users of the bike enter their names in the book provided. This is so we can tell whether the bike was worth the money or not. Your cooperation in this matter would be appreciated.

Finally if there's anything concerning ladies sports, or even anything scandalous or libelous that I might be vaguely interested in, let me know.

## Ladies Rugby

### IC Ladies XV 8 QMC Ladies XV 4

To complete the full set of rugby features against QMC the ladies played on a cold but dry day at Harlington. There was much for the few spectators, including ITV film crew, to cheer about as the game was played with all the fervour and commitment that befalls all grudge matches against QMC. The forward game was frequently scrappy, neither sides being able to gain control and tidy up the loose ball, too give the platform which was required. In the set pieces honours were fairly evenly shared. QMC dominating the lineout and IC the scrums, the latter often being problematical due to the over keenness of the IC front row to lower the service, leading to many collapses. The both sets of threequarters exhibited good positional sense, and some good straight running was seen. Hardee's disease was apparent with too many passes being fumbled, though the passing was of good quality in the main. IC opened the scoring after about 10 minutes of the first half through Vanessa Yates, the ball was passed down the line to the wing; she then ran past her opponents number and the full back to score from the half way line. In the process she left the referee struggling to keep up, and all were grateful for the delay caused by the IC kicker building a mound of not insignificant proportions. With the conversion narrowly being missed the game restarted with QMC tightening up their game and increasing their resolve. A period of sustained pressure followed, with all the play in IC's half, however this was not converted with plants. In the second half QMC were starting to get on top and a firm handling move, the ball again going down the line to the wing resulted in a try. Perhaps the men's threequarters could learn something here. The game then reverted to its previous scrappy opening, and it looked like a draw until the IC scrumhalf, Leah Wallbank, broke form the base of the scrum, and in a solo effort ran the try in from forty yards, barely outpacing the cover. The final score was 8-4 in favour of IC. Today a report on Ladies Rugby including excerpts of the match will be shown on the 'Six O'clock Show' on ITV at, wait for it, six o'clock.

## Sailing

### Castaways Cup

#### IC I 1st IC II equal 3rd

This is the inter-London team-racing trophy and was competed for by six teams from London colleges and visiting teams from City University and UEA. The teams were organised in to two leagues, with the top two of each league going through to semi-finals.

IC I won all their races in their league. IC II however, managed to actually lose a race to QMC, but gained a place in the semi-finals as runners-up in their league.

The semi-finals brought the two IC teams together on the Sunday. A great deal of psychological warfare was attempted before the match with IC II trying to put good old 'Skip' Jones (can't have a report without mentioning him!) off his stride by promising to sink him. His minder/crew, Kate B-C however, countered this by threatening to hit on the nose anyone who tried this!

In the first race the author's boat shot into the lead with some expert role-tacking by his crew, Richard Tostevin. However this was not enough for IC II to win and IC I finished with a winning 2, 3, 4 combination. The second race was yet another victory for IC I.

The final was then IC I against QMC, who had won the other semi. This was won by IC, two races to one. The defeat of last year, when QMC won the trophy in the event which is traditionally won by IC, was therefore avenged.

*Icarus*

## Orienteering

On Saturday the Orienteering Club entered a team in the Hyde Park Relay, striking fear into the cross-country team as we used to beat them in this race! However, with a big event the following day a type of running unfamiliar to orienteers, we were obliged to relinquish an early lead and let them beat us this year.

The main event of the weekend was the Midland Championships, a premier event offering demanding navigation and quality terrain. Simon 'Captain Coke' Errington amazed us by finishing third in one of the top classes, while Bruce Bricknell justified his seeding in the elite A class with a fine run. The others had less amazing runs, but doubtless learned much from the demanding courses. 'Wally of the Week' award goes to me, for a new low in performance after the mega Hyde Park Relay piss-up on Saturday night!

Now that the cross country season is over, maybe some of their team may like to try some really hard running: navigation over wild terrain at speed—that's orienteering.

*Punchdrunk*

## Football

Two uniformed(?) teams caused a sensation in the recent RCS six aside soccer competition by reaching the final in the face of strong opposition.

In a tense semi-final miniscule student house team, Rayleigh House Academicals, defeated holders Mining House two-nil with goals from Meeres and Bradley and a string of saves from keeper Slater. In the other semi-final Neil's Neds, allegedly a team of undergraduate chemists, had an easy win over the rugged Purples.

The final was a closely fought affair with Neil's Neds opening their account with a fine shot on the turn from Van den Begin Rayleigh equalised with a neat header from Reynolds only for Neil's Neds to clinch it in the final minute.

## Waterskiing

Dear Member or Potential Member

A short note to keep you up to date with events so far.

About two weeks ago we became an official club within the Imperial College Union. Last week was the first week of 'real action'. Like most weeks it started on a Monday, though I suppose that depends on your particular view of the world. Nevertheless this particular Monday we had a meeting at lunchtime, and elected a committee to run the club. A list went around the nine brave souls volunteered for a skiing trip on Wednesday.

On Tuesday the committee met. Basically all that was discussed was how to get some money from the Union and how, once it was acquired, to spend it best. We agreed that the priority should be to subsidise the cost of being towed, as we felt that with a bit of good will and tolerance, we could manage being a few wetsuits short. Apparently the sailboard people manage with about three between eighty of them.....The question of the 'edgebar' came up, and the chairman looks like having a busy weekend botching one up! Once fitted it should be a great help to those (principally me, it seems) who aren't already proficient.

Wednesday was very windy, even so all seven that actually came had a tow. The wind meant that spray was a problem, and the only real cold bits were exposed hands and feet. There may be a case for getting some gloves and socks. That said, we still survived pretty well, and I for one am looking forward to more afternoons in the docks, especially as the weather improves.

The good news saved until last; simply that if all goes to plan, skiing will be subsidised down to £2.90 as opposed to the present £4 a shot. It's not final yet. (We're still working on it)...so keep your fingers crossed!

All the best until Monday.

*Trevor  
(Secretary)*



Today is the second anniversary of the pinching of Mary—so go to the Chelsea College Beer Festival tomorrow and celebrate.

On Sunday Jez is going pumping so if you want to get wet turn up at the garage at 11:00am, suitably dressed.

Tuesday is dinner day: Chem Soc annual beano cost £10 from any committee member and is to be held in the SCR.

Friday we have a small stunt in the evening outside Harrods—come dressed for the occasion and on Saturday 10 March we have the Leap-frog down Ken High St—Prizes, both alcoholic and not on offer! Turn up 10:00am in the RCSU Office.

DP the VP



Thanks to all those who turned up to swim and support the swimming gala, I expect we will win but as its Monday now I don't know.

On Sunday, 4 March, there is the Guilds Soccer Sixes, anyone who wants to support, turn up at 10:00am at Beit Arch, the coach is free and the bar is open all day at Harlington.

On Monday the Guilds election papers go up, by the clock in Mech Eng so if you fancy standing for a post next year, come in to the Guilds Office for a chat, and then sign your name on the relevant paper.

## Chem Eng Soc

Don't forget to buy your tickets for the Chem Eng Soc dinner which is on Friday 9 March at the International Hotel. Guests include Mr Brian Street, President of Institute of Chemical Engineers and the Rector. Tickets available for £12.50 from Soc Reps.

### A REVOLVING CAGE

Thursdays 1:00pm starting 8 March, Huxley 213.



**'THE SQUARE ROOT OF MINUS ONE'** A look at the paradox of human nature and what its like to be a white mouse.

## ICSO



Louise Glanville.

Tonight's concert at 8:00pm in the Great Hall marks the fifth anniversary of Richard Dickens waving his arms in front of us and being totally ignored. The orchestra will be playing Strauss' Till Eulenspiegel, Mozart Flute Concerto in G Major (soloist Louise Glanville) and Tchaikovsky's Fifth Symphony. It is not yet known what Richard will be conducting (but rumour has it that 'The Rite of Spring' is in the air). In order to help erase the memory of what promises to be an unforgettable concert, there will be a cheese and wine party afterwards, to which everyone is invited. The food will be free and the wine cheap (in price, not in quality). Tickets for the concert can be bought on the door, 80p for students and £1 for adults.

## SDP

Recently IC SDPS sent a delegate to its annual student conference, where they represented IC on issues such as education, youth, women and Europe.

Next Thursday 8 March, we are holding a meeting in EE at 12:45 where we will be hearing about the conference in details, and about our new President, Prof Cunningham and our planned events for this term, mainly a trip to the House of Commons. We will also be holding elections for posts on our 'management team'—papers are up in the Union Building.

### CND Festival

19-22 March Tickets only £3.  
FILMS: Catch 22, Hair, All Quiet on the Western Front.

PARTY: Disco, food and drinks, guitar music and a Peter Sellars double-bill: Being There; Dr Strangelove.

## Consoc

Next week (well two days of it!) is going to be 'NATO Week'. On Monday, Dr Jamie Shea, Nato Youth Officer, will be coming to speak on 'The Justification for Both Possessing and Modernizing Our Nuclear Arsenal'. Although not very well known, he is a very good speaker well able to answer any questions, however awkward. The event will take place in Huxley 340 at 1:00pm. Also, on Tuesday, Paul Cassidy, Political/Military Attache at the American Embassy will be speaking on 'NATO's Deterrent and Nuclear Arms Control' (Chem Eng LT2, 1:00pm). Everyone is welcome to attend these events. Finally, if anyone would like to order any posters etc (as advertised in Morning Cloud) please return the forms to me by the end of next week.

## ICCND

This coming Sunday (4 March), there is a Student and Youth CND National Demo. It has been organised by London Student CND and has the backing of the Police. The march goes from the Department of Education to Trafalgar Square and everybody is to assemble at Jubilee Gardens at noon. At Jubilee Gardens there will be speeches and entertainment. Also there will be a 'cheque' going around for people to sign and this will be handed into 10 Downing Street (this was a suggestion of the Police's). Anybody wanting to go in a group should meet at Beit Arch 11:15 Sunday morning. Hopefully there will be students from universities and polys from all over the country so please try and go so that Imperial is well represented.

The festival at the end of this term starts on Monday 19 March with the film *Catch 22* and continues with *Hair* on Tues, *All Quiet on the Western Front* on Wed and a Party on Thursday. Tickets for the whole week are £3 from our bookshop in the JCR, Friday, 1:00pm. The 'Peace Pledge' was launched very successfully and will be circulating College until some time next academic year. If you have not signed it yet please do (you will get a free badge!).

### Imperial College Overseas Students Committee

presents

### INTERNATIONAL EVENING

Saturday 10 March  
7:30pm JCR  
Cost £2.00  
includes  
international supper,  
cultural display and disco

**friday**

**1800h** 53 Princes Gate Music Room  
**IC CU** coffee with Richard Macgregor speaking. All welcome.

**1930h** Union Building  
**Ents Carnival** featuring New Model Army, Serious Drinking, Orson Family, Skeletal Family, Cook Da Books, two discos, all night films, bar till 2am (with cheap beer promotion) and breakfast for those who survive. Alternative cabaret with the Popticians. Barbecue.

**2000h** Great Hall  
**IC Symphony Orchestra**  
 Strauss: Till Eulenspiegel, Mozart: Flute concerto in G Major, Tchaikovsky: 5th Symphony. The concert will be followed by a cheese and wine to which everyone is welcome.

**sunday**

**1800h** More House 53 Cromwell Rd  
**Catholic Mass** followed by bar supper and talk on 'The New Code of Canon Law' by Bishop John Jukes who is a franciscan friar and area bishop in Kent. All welcome.

**monday**

**1245h** above Southside Bar  
**Waterski Club** meeting. Sign up for Wednesday's trip.

**1300h** Huxley 340  
**Consoc** meeting with speaker Dr Jamie Shea, Nato Youth Officer on 'The Justification for both possessing and modernizing our Nuclear Arms'.



This week the regular club meeting entries have not been included. They will be published once every two or three weeks as a reminder to members of their regular meetings. The deadline for Whats on entries is Monday 1pm.

**tuesday**

**Lunch** JCR  
**Rag silly games.** See article.

**1230h** Elec Eng 606  
**Pimlico Connection**  
 Recruitment Session Pay-As-You-Eat Lunch. This is a meeting to introduce people to tutoring and to encourage them to join for 1984/5 session.

**1300h** Chem Eng LT2  
**Consoc** with speaker Paul Cassidy, political/military attache at US Embassy on 'NATO's Deterrent and Nuclear Arms Control'.

**1300h** Mech Eng 220  
**Open Meeting:** Prof Swanson, Pro Rector, will be discussing IC's response to the UGC's '28 Questions'. All welcome. Very important event—please make every effort to attend.

**1330h** Pippard Theatre  
**Technological Innovation,** strategic change and the prospects of arms control, a lecture by Prof Lawrence Freedman.

**1900h** Mech Eng 220  
**Lecture-demonstration** in Hypnosis by Martin S Taylor for Rag. Admission £2.00.

**wednesday**

**1300h** Great Hall  
**Consort Chamber Orchestra**  
 concert including Mozart: Flute and Harp Concerto, Bach: Suite in B Minor and Vaughan-Williams: Fantasia on Greensleeves. Free.

**thursday**

**1245h** Elec Eng  
**SDP meeting:** feedback on SDPS conference '84.

**1300h** Huxley 213  
**A Revolving Cage**—a series of talks about our behaviour. The first deals with 'I' and is called 'The Square Root of Minus One'.

**1300h** Union Dining Hall  
**Labour Club** speaker meeting with Jane Carter, National Officer of El Salvador Solidarity Campaign on 'El Salvador—another case of US imperialism'.

**1330h** Music Room 53 Princes Gate  
**Lunch hour concert:** Brahms' Clarinet Trio by IC Players.

**COMING SOON**

**Fri 9 March 2000h JCR Bad Taste/Sick Mind party** organised by Rag. £1.  
**Sat 10 March 0900h CCU offices Rag Collection.** Guilds Pyjama Rag; RCS Leapfrog down Ken High St; Mines?  
**Tues 13 March 1300h Union Dining Hall Labour Club** speaker meeting with Barrie Stead, Chair, ILEA's sub-committee on schools and of GLC's health panel on 'Why we need to save the GLC'.



**Fridays 2000h Pete Coleman** presents an in-depth look at what's on around College and South Ken in 'Viewpoint'.  
**Sundays 0800-1200(noon)** Wake up to the 'Voice of Blackburn' himself, Andy Cave.  
**Sundays 2100-2300h Russell Hickman** 'A unique blend of noise'.  
**Mondays 2000-2100h Beatles Hour** with Pete Coleman.  
**Tuesday 1800-2000h Live From Six** with Chris Storch

Featuring Eurhythmics and Pink Industry.  
**Tuesdays 2100-2300h The 'Aids Show'** with Aidan Dye, including new Top 40 at 2130h.  
**Wednesdays 2300-0100h One Man Bay of Pigs** with Martin Smith.  
**Thursdays 2000-2100h Aidan Kirkpatrick's Old Record Club.**  
**Thursday 2300-0100h Alphabet Soup** with Ajay. This week the letter R.



**Tuesday 1300h** (repeated at 1800h), JCR and Hall TV sets. Star Chat with Cliff Richard. Have you ever wanted to be a megastar? Sell millions? Win the adoration of the world? This week Cliff Richard explains how he did it.  
**Thursday 1300h** JCR and Hall TV sets. News-Break—live election results special. Up-to-the-minute results, reports and interviews with the successful candidates. Plus all our

regular features, including a look at the film Joy (a pornographic French movie, we're told) in 'Film Review'.  
**Thursday 1800h** Hall TV sets **News-Break** with a live summary of the election results, the reactions of successful candidates. With all our regular features from the lunchtime programme.

**Lounge Lizards Nightclub**

**Saturdays 2000h Lower Refec IC Ents Lounge Lizards Night Club** with cocktails, bar and disco. 50p members, £1 guests.



## Elections

Next Monday and Tuesday elections will be held for the posts of President, Deputy President, Honorary Secretary and FELIX Editor. Next year's sabbatical officers will be representing student interests on College committees, manage the clubs, societies and entertainment the Union provides. The FELIX Editor must be able to campaign on relevant issues and keep you informed in a lively and entertaining manner. This weekend you are going to have to sift through the mass of election bumph thrust upon you and decide who the right people for the various jobs are.

Detailed information about the candidates and their policies can be found in their manifestos in FELIX and their handouts. These should be taken with a pinch of salt. Candidates often exaggerate their qualifications and make promises they can't fulfill. You should weigh up their promises and consider whether they are realistic. Some candidates visit the halls and houses canvassing for votes. Although to some people this is very irritating it is an ideal opportunity to find out what sort of person they are and whether they can do the job if elected. The Hustings UGM is by far the best way of deciding who the best people are. Despite nerves it's amazing how the true qualities of a candidate shine through, especially when they have to answer questions from the floor. If you weren't there then ask a friend who was there about how each of the candidates fared.

The temptation to assume that the Union will continue to run whichever candidate is elected, is a strong one. However, a poor sabbatical can have a disastrous effect on the services the Union enjoy. When you vote make sure your vote next week is an informed one.

## Accommodation

The deadline for applications for College accommodation is 9 March, if you haven't been to the Student Services Office to pick up the application forms then do so today before it is too late. The accommodation guide on page 5 is designed to complement the fact sheet available from the Student Services Office. The fact sheet attempts to 'sell' these places to you, our accommodation guide presents, hopefully, more of a student's eye view of the options open to you. We have attempted to be as objective and accurate as possible. We hope it is useful. If you have any comments about the guide or want to make any corrections please do send them to me via the FELIX Office.

## UGC

The University Grants Committee has sent out a questionnaire to all universities asking them how higher education should be managed in future. The document itself is very wide ranging, investigating anything from the length of degree courses to the balance between the numbers of arts and science students. Most importantly, the questionnaire asks universities to estimate the effects of cutbacks in government funding. Professor Alan Swanson, Pro Rector, will be speaking about Imperial College's reply to the questionnaire next Tuesday in Mech Eng 220 at 1:00pm. Anyone concerned about the future of higher education should be there.

## Credits

*Matt Fawcett, Pete Hobbis, Malcom Gray, Andy Gray, Tony Atkins, Diane Love, Rich Archer, Jon Jones, Lynne James, Sean Davis, J Martin Taylor, Tim Noyce, Peter Rodgers, David Rowe and Maz. A special thanks to Pete the Print for printing this bumper issue.*

**Pallab Ghosh**



# ALYSSES

## Omar's Puzzle

A few people have asked me for a bridge puzzle, so here's one given to me by Omar, who, aptly enough, is a civil engineer. It does not require any specialist knowledge of bridge to solve it. For those of you who don't play bridge, all you need to know is that North and South play together against East and West; that you must follow suit if possible; that a trump beats any non-trump, that each player lays one card in each trick; that the winner of one trick leads in the next; that even though North and South play together, if North wins the trick North leads in the next trick, South cannot, and that North is dummy, so all his cards are laid face up on the table for all to see. South plays all North's cards.

The problem is for North-South take all thirteen tricks with hearts as trumps. The king of clubs was led by West, and was beaten in South's hand by the ace. How do North-South play out the remaining tricks, in such a way that they will succeed no matter how the remaining cards are distributed.

Good luck, everyone.

North S \_\_\_\_\_  
H 10 9 8 7 6  
D A K  
C 7 6 5 4 3 2

South S A Q 2  
H A K Q J  
D Q J 10 9 8  
C A

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

## Last week's solution

Combining statements (1), (2), (5) and (7), the scorelines are 1-0, 1-0, 1-1, 2-0, 2-1, 2-2. Knowing that four of the matches were better teams from the same area, then because Arsenal played Everton, two of the matches were Tottenham v Chelsea and Liverpool v Manchester United. From statement (6), Tottenham beat Chelsea 2-0. Statement 9 may have confused you if you misread it, as some people did. Losing 2-1 is not achieving the same result as winning 2-1, so Newcastle won 2-1, Liverpool lost 0-1 and Arsenal drew 1-1. From (3) and (4) Sunderland beat Wolves 1-0, so keeping the rule of four local matches, Newcastle must have won 2-1 against Middlesbrough, so Birmingham drew 2-2 with Coventry. Hence the solution reads

Tottenham 2 Chelsea 0  
Newcastle 2 Middlesbrough 1  
Manchester United 1 Liverpool 0  
Arsenal 1 Everton 1  
Sunderland 1 Wolves 0  
Birmingham 2 Coventry 2

After a few difficult puzzles, I thought it time for a fairly straightforward one. Accordingly there were thirty-eight correct solutions, and Alex Wilson of Elec Eng 1 was the randomly selected winner. He can collect his £5 prize, courtesy of Mend-a-Bike from the FELIX Office after 1:30pm on Monday.

Thanks, Sharpshooter.

A black and white illustration of a hand holding a telescope against a starry night sky. The hand is positioned centrally, with the index finger pointing upwards and the thumb resting on the side of the telescope. The telescope is held horizontally, and its lens is pointed towards the viewer. The background is a dark, starry sky with numerous small white dots representing stars. The entire scene is framed by a thin white border.

Galileo

is coming



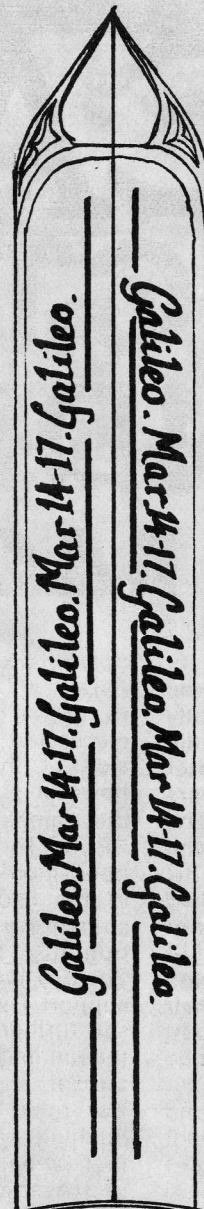
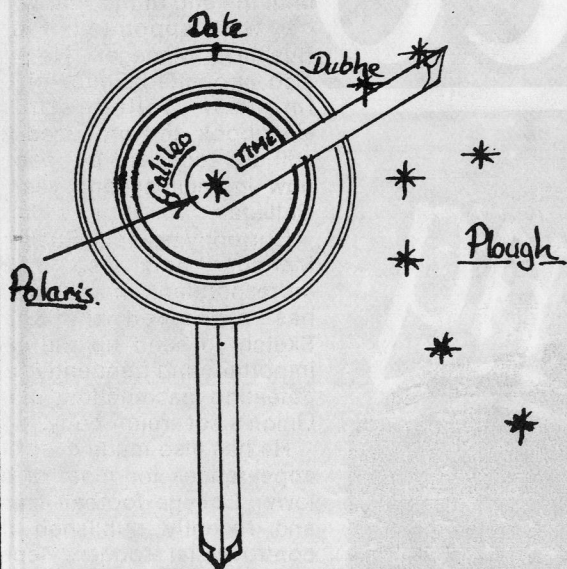
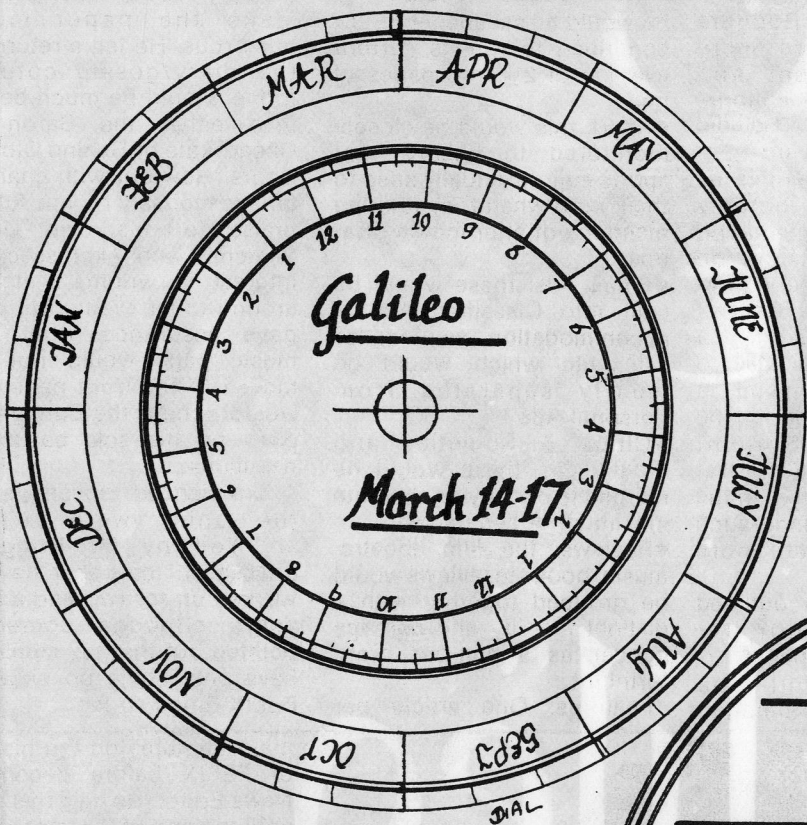
# Galileo Nocturnal

Your very own Nocturnal, as used by Galileo.

Lovingly crafted in genuine paper and precision printed with real black ink, assembled with consummate skill. This genuine reproduction nocturnal will be the envy of your friends. A real collectors item, it comes complete with a handsome display case folded out of last week's FELIX.

This colour coordinated design based on a Renaissance Italian instrument is brought to you at the incredibly low price of nothing, free, gratis and given away. Demand is likely to be so heavy that we have to limit the offer to one per household. However if you have a friend who would like one, send his or her name and address to: 'Dramsoc Galileo Production Offer', (Tickets available from the storeroom or any Dramsoc member), Dramsoc Storeroom, Union Building with £1500 in cash to cover post and packing.

Simply assemble as in the diagram, a hole in the pivot helps. Align the date with the arrow on the backing plate. Find the plough (big dipper or Ura Minor) constellation and within it the two star 'pointers' to the pole star. Centre the dial over the pole star. Hold the leg of the plate vertically and rotate the straight edge to the 'pointers'. Read the time from the inner scale of the dial.



Galileo, 7.30pm, Union Concert Hall, Mar 14-17.

POINTER

