



FELIX

Founded 1949

The Newspaper of Imperial College Union

Rector slams Education Policy

In his keynote Commemoration day speech yesterday the Rector, Lord Flowers, criticized Government Education Policy as well as speaking of the continuing process of change in the Universities. He encouraged the recruitment of more women into science and engineering.

In the ceremony in the Royal Albert Hall the Rector gave a brief history of the College emphasising the change that had occurred already, and the changes still to come.

He foresaw 'a gradual erosion of the binary line between Universities and Polytechnics,' and in addition a change in the funding of the College to respond to external demands following the recommendations of the University Grants Committee to the Government

He moved on to congratulate 'the central figures in our ceremony', the 982 undergraduates and 765 postgraduates who were nervously waiting to become admitted as graduates. He extended these congratulations to the parents for 'getting their children this far'. A special tribute was also given to the sixth form teachers who ensue the receipt of 'a large number of applications that fit the exacting entry requirements of an institution that is dedicated to academic and professional excellence at the highest level'.

He continued by elaborating on the 'interface problem' between the sixth form curriculum, because school students 'come up inadequately prepared to study for an honours degree', and the narrow range of 'A'-Level subjects required by Universities. There has however been a compromise as all the Universities are now committed to AS level courses which are intended to broaden and

supplement the A level curriculum. Lord Flowers is keen to see the implementation of AS levels in order to 'get rid of the evils of over-specialization'.

Following an attack on the government education policy, which has led to 'damage from which the Universities are unlikely to recover for a long time', he praised Sir Keith Joseph, Secretary of State for education who originally proposed AS level courses.

Bo on Blue Peter

The City and Guilds Union motorised mascot 'Bo' is to appear on the BBC's Blue Peter Show on Thursday.

Bo will be appearing alongside the only other car of its type still in existence, as part of the run up to the RAC London to Brighton run.

This year's run, for veteran cars marks the 50th anniversary of Bo joining C & G. Since 1934 the Brighton run has been one of the biggest events in the Union's calendar.

Students can join the celebrations by going to Brighton by coach, and attending a special lunch. Tickets are available from the C & G Union Office priced at £3.50 for the coach and £7.50 for lunch.

RCS Brains

CAREERS BRAINS TRUST —
THURSDAY 8 NOVEMBER
1984 MAIN DINING ROOM,
SHERFIELD BUILDING.
£1 for Students Sherfield MDR at
6.30pm

In what must be one of the biggest scoops in recent years, Dave Allen and Charles Troup, the Imperial College Social Secretary and Guilds Ents Chairman, announced that they have booked two legendary acts from the sixties and seventies to play in College.

Mud, the band that gave us, 'Tiger Feet', 'Oh Boy' and 'Lonely this Christmas' (probably the corniest number one record of all time...) will play at the Guilds Carnival later this term.

Somewhat sooner, in fact only one and a half weeks away, you will be able to see Geno Washington, the famous soul singer of the Sixties, performing at the End of the World Party. The great man has agreed to do a one-off concert to 'celebrate' the outcome of the American Presidential Elections, which take place that week.

Messrs Allen & Thoup, both dedicated Geno Washington fans, said they were 'absolutely over the moon' about the forthcoming concert by Geno Washington. No comment was made about Mud except to express astonishment that they were still alive...



Les Gray of Mud

RSM Open

The Royal School of Mines has its annual Open Day on Thursday 1 November. This provides an opportunity for sixth-form pupils and undergraduates to look around departmental displays and company exhibits.

The Open Day is organised by students and uses students as guides to set up exhibits. All Miners are invited to come along and lend a hand; they get free beer and wine, but only if they help.

Students from the other CCUs are also welcome to look around.

More details are available on the notice board outside Mines G20 or from Dep Reps.

Pay rise

University Lecturers' pay rises for the current year have been agreed at 4.6% back-dated to 1st April 1984. In addition to this rise the salaries of top lecturers will be increased by £150. The London weighting will also be increased, with effect from 1st October 1984, by £47.

Red Cross

IC Red Cross are collecting for famine relief in Ethiopia today.

Collecting cans will be situated all over the campus.

Those wishing to send a donation through the internal mail should address it to Miss C Collins, Room 714, Elec Eng.

LETTERS



Mooney prices up

Dear Sir,

Several weeks ago College imposed an apparently small 2% refectory price increase. It may seem there is nothing to complain about, but few people can realise the ridiculous way such increases are decided.

Wage rises are easy to identify, but College has no way of analysing the cost of raw materials. Until the end of last year College used the Financial Times Shopping Basket Index to fix their prices. This was not a very reliable guide, as housewives use far more eggs and less chips than the IC refectories, but it was better than nothing. Unfortunately the Index no longer exists.

When last year's sabbaticals tried to oppose a price rise, arguing that some sensible policy on pricing needed to be developed, College ignored them. They had no negotiating strength. College had made a decision and would not change it. I guess the same happened this year, although as I no longer sit on the Refectory Committee I cannot be certain.

College have tried to introduce a computerised accounting system for the refectories. Due to various mistakes, it still is not used. The system could monitor the price of raw materials and so indicate when price rises are needed.

To make progress in this area the Union must take a lead. It is no use expecting College to solve the problem. It does not harm them if prices go up by an excessive amount. It only hurts students. College will just continue to ignore the Union if we go into Refectory Committee and ask nicely for change. So I will be proposing a motion at the next UGM instructing the Executive to call a refectory boycott should College impose any further price rises. This will hopefully encourage the College to solve the problem, because every time the Union has held a Refectory Boycott in the past, the Union has won. The College will not want the risk of another defeat.

This motion should mark the start of a new realistic approach to negotiating with College. At present student representatives on College committees have no real power as College can always ignore their wishes. The threat of militant action will make the College listen to students.

Yours sincerely,
D Hugh Southey

Refectory Committee Rep 1983-84

Sub Standard

Dear Sir,

Although this may appear to be both embittered and spiteful I feel I must say a word or two about our delightfully chummy sub-aqua club.

This being my first year at Imperial I decided I would take advantage of the facilities and having some experience in SCUBA diving felt I would join the college club. So I ventured down to the introductory meeting; on the whole a fairly pithy affair on what is and isn't diving and what the club does and doesn't do. From what I discovered the latter of the two would be the fairest assessment.

Having unwisely parted with my money (£3) I embarked on some polite conversation with some of the senior officers of the club. From the word go they outlined quite emphatically, 'This is a social club! We like to do a bit of training etc., but what we really like to see is everyone together down the bar, drinking pints, and talking wet suits...I've got a big fat rubbery one, what's yours like?' Having emphasised in the introduction on the dangers of the sport and the need for a responsible attitude (a point I totally agree with) why did the majority of the club's executive decide to turn up pissed, beer glasses in hand, swaggering into the room like a bunch of cowboys?

Talking to the club's diving officer about club outings he said: 'We only have perhaps three outings a term. Why don't you come down to the bar later, see if you get on with us, and if we allow you to join the 'team' (read clique) you'll stand a much better (certain) chance of getting on a diving trip. Due to the number of unofficial members that tag along, genuine Imperial College students stand little chance.

Admittedly these are serious accusations but let's consider these points:

- Imperial owns what is commonly accepted as one of the best equipped sub-aqua clubs in the country
- It receives a considerable amount of finance from the Union
- This money seems to be squandered on a very small number of people

The club is dormant (three trips a term is not enough) and ill-managed by a bunch of cowboys.

Yours humbly,
Everard Snivel
(real name supplied)

Dear Sir,

Contrary to apathetic belief, I would like to announce that there really is a 10-pin bowling club in existence at the college, and that every able-bodied man, woman and ? should come along. See random small ads, posters, etc.

Yours sincerely,
Captain Fantastic
(real name supplied)

FELIX

Mascotry is one of the oldest traditions at Imperial College and, like it or not, it is here to stay.

At its best, mascotry promotes healthy competition between the CCUs and provides an outlet for high-spirited enthusiasm. It should help to foster pride in the College and its traditions.

At its worst it may lead to frightening displays of violence and riotous behaviour and the prospect of damage to people and property.

To guard against this danger it is essential that a clearly defined set of mascotry rules exists, that each party plays to the same rules, and that the rules are observed.

Those in authority in the CCUs should be acutely aware of this responsibility and should seek to make the position quite clear to those they represent.

There are not many Colleges in the country where mascotry would be tolerated to the degree that it is at IC. Those who count themselves supporters of mascotry should guard this privilege as jealously as they guard their mascots.

Students have found it more difficult than ever this year to find flats and bedsits. What were once cheap flats are now converted into luxury apartments; students are starting to squat in disused buildings.

These disturbing facts, coupled with the impending closure of the Fremantle Hotel, make it clear that an accommodation crisis is looming.

Plans are afoot, if it true, to build a new hall of residence, but this cannot be expected to appear for a few years.

The College and the Union must start to think seriously about how they are going to house next year's Freshers, and how they can avert a major crisis in the short term.

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Mooney mix-up

The awful truth revealed!

Four recent incidents when beef was advertised and sold as lamb in the College refectory were explained yesterday. Mr Victor Mooney, Refectory Manager, divulged that a memo circulated to the staff about the matter had the words 'beef' and 'lamb' the wrong way round.

'All memos in the refectory system are written in English with a Spanish translation,' said Mr Mooney. 'Unfortunately, my previous secretary translated beef as lamb and lamb as beef.'

Since the memo was written, in September 1962, all the Spanish refectory staff have served beef when asked for lamb.

Any Hindu student eating so-called 'lamb stew' (beef) commits a grave sin, as the cow is a sacred animal in the Hindu faith. 'We all had a jolly good laugh about it, I can tell you!', said Mr Mooney. Señor Pedro Gomez, Chief Chef and Bottle Washer said to FELIX 'Don't ask me, I only

heat it up'.

'Par qué no alquilan un cocinero en lugar di un pindre para haner la comida?' he remarked.

Mr Mooney has announced plans to cope with competition from the highly successful Union-run Refectory.

'We have put up our prices already,' he boasted, and I am taking steps to lower the quality of the food even further, although I anticipate some difficulties from Pedigree Chum our suppliers'.

'There will be less staff, and tills will be kept short of change. There is not a lot more I can do. I want to create so much demand for Union Refectory food that they will be unable to cope with it. They will have to close down in a matter of months'.

His new advertising slogan 'Eat Mooney for diarrhoea and scurvy' is expected to hit campus next week.

Alarming!

Rape alarms will still be given away free by the IC Union after a proposal to charge for them was heavily defeated at the Council meeting on Monday evening. Council is the most powerful finance committee and controls Union and the general running of the Union.

Deputy President, Dave Parry had included in his report a recommendation that a charge of 25p should be made for the alarms. IC Union gives away between one and two hundred alarms, which cost £1.27 each, a year. Mr Parry told Council that this was a major drain on the Welfare Budget. A 25p charge, he argued, would allow more alarms to be bought and cover some of the administration charges. Mike Stuart, Welfare Officer, who opposed the report said that the Welfare Committee only had problems paying for rape alarms because its budget had been cut. Hugh Southey, also opposing, told Council that as a responsible Union, ICU should make every effort to ensure women carried rape alarms.

University Challenge Contenders Chosen

The following people will go through to the second round of the eliminations for the IC University Challenge team.

Simon Errington Min Tech PG
N M Sketch Aero III
Peter Jump Physics III
D Wells Physics III
Steve Parr Physics III
Tim Williams MRE PG
Dick Langstaff Humanities
Duncan Swann Chem Eng I
L Irani Physics III
Martin Hall Man Sci
S B Groom Atm Physics PG
Nick Pike Maths III

This will be televised by STOIC to create a suitable atmosphere.

Thanks to all those people who entered the first round. Answers to the questions used are available in the Union Office.

EXHIBIT in South Ken

The entry ticket, printed before your eyes and issued free for access at a specified time is the first hint of the enormous amount of money spent on EXHIBITS, the IBM exhibition of Information Technology. This mobile exhibition is currently housed in a unique transparent structure designed by an Italian Architect and set in the grounds of the Natural History Museum. By the end of 1987 it will have visited 20 cities in 14 European Countries.

EXHIBIT is an impressive insight into the future and is divided into three main areas:-

'Technology' is a fascinating display of what is currently available and how it is made. The emphasis is on chips, not the potato variety, showing their

production, testing and use in computer. Other advances include demonstrations of holographic scanner which can read bar-codes in supermarket checkouts, a three dimensional display of the EXHIBIT building, the Videotex link to data banks and two new IBM PC plus personal computers with very high resolution graphics.

'Computer Games' is, provided there are only a few children around, an excellent chance to try out many different kinds of software. As well as a few games there are opportunities to write a comic strip scenario, paint, draw with a light pen, spot counterfeit coins with the aid of a robot and use a touch sensitive screen to find your way around New York (a strange

choice on a European tour—still it is only a demonstration).

'Researching into the future' is a small but interesting part of the exhibition. There are displays of current work such as voice recognition and applications of computers to other disciplines for research purposes. A project from France is teaching deaf-mute children to talk by adopting sound waves into contours which appear on the screen and can be copied. There is also a film about Scanning Tunnelling Microscopy (STM) a technique developed by IBM, of course, which can produce an image of a solid in three dimensions with resolution down to 0.01 nanometre—the size of an atom.

Despite the temptation, among all these computers to

have computerised explanations, the exhibition is full of very human people to answer any and every question you may have. It is a well planned display and is just like stepping into the future (for a biochemist, anyway). EXHIBIT will appeal to anyone who wants to know what the future will bring and is highly recommended.

EXHIBIT is open daily Monday to Saturday from 10am-6pm and Sunday 2.30-6.00pm until 2nd December. Admission is free.

IBM are offering a special preview of the Exhibition with a buffet to IC students and staff on Wednesday 7th November from 6.45pm-8.45pm. Tickets on a first-come first-serve basis are available now from the Public Relations Office, Sheffield.

Recipe of the week

- 1lb sausages
- 3 medium onions, thinly sliced
- 2 eggs
- 4oz plain flour
- 1/4 pint milk
- teaspoon mustard
- pinch of salt
- 2 tablespoons oil



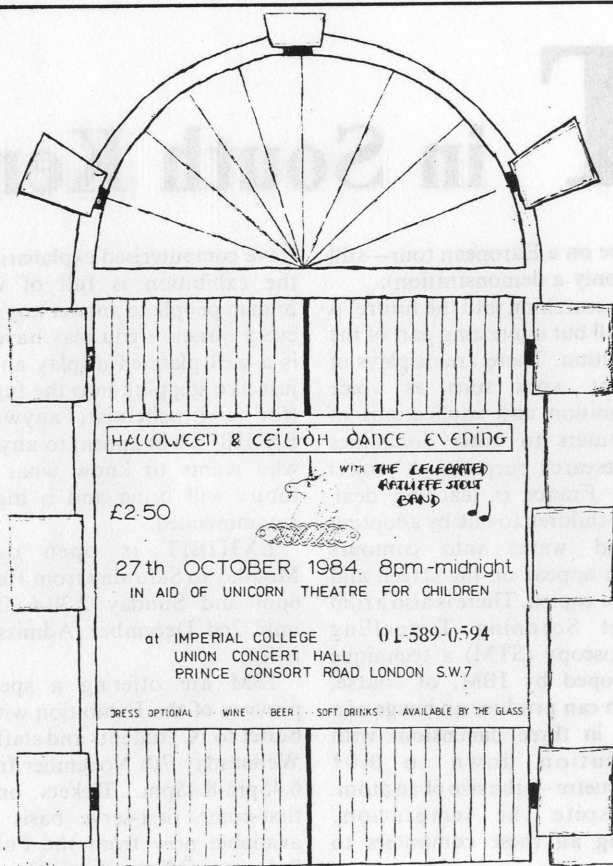
TOAD IN THE HOLE GOULDER

I am indebted to my friend Goulder for this variation on 'basic toad'.

Do use good ingredients — premium pork sausages in this case. What makes home cooking so good is being able to choose top-quality ingredients with variations to suit your own taste — I use herb sausages and whole-seed mustard.

Shake the flour into a mixing bowl, gently blend in the eggs, then the mustard, salt and milk. Beat until the mixture is smooth and has lots of little air bubbles. Leave to 'rest' in the fridge for 30 minutes. Heat the oven to maximum. While it is heating peel and slice the onions. Pour the fat into a deep-sided baking tin and put in the oven. Get the sausages ready and have the batter handy — the hotter the baking dish when the batter goes in the better the result. After the onions have cooked for five minutes add the sausages and batter. Return to the oven. **DON'T LOOK** for 20 minutes. Take a quick peep — if it's a soft gold it's ready — ovens vary and it may take longer.

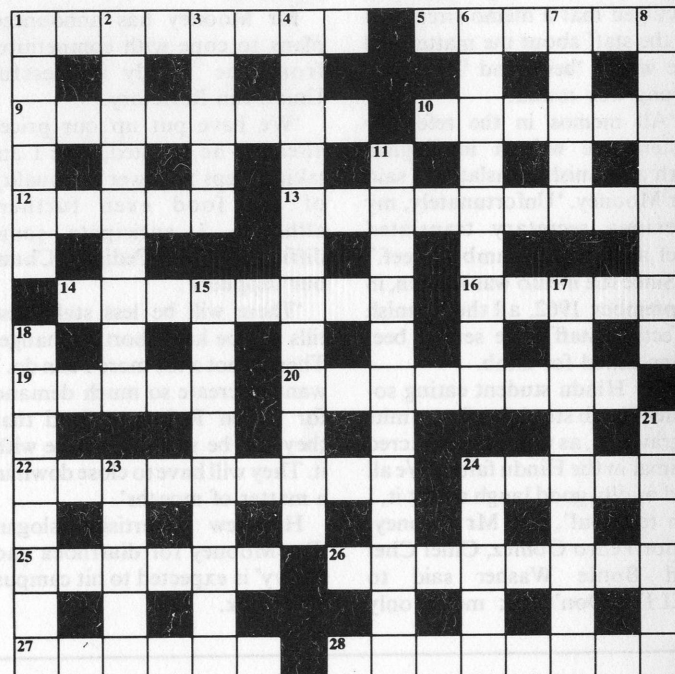
Adding a teaspoon of sugar to the batter mix is bad for your health, but good for your reputation as a cook.



UNIVERSITY PRIZE CROSSWORD 1984

COLLINS DICTIONARIES offer prizes of a copy of Collins English Dictionary (value £12.50) for each of the first TWO correct solutions opened from those submitted by readers of this magazine. In addition, all winners' names will go into a National University Magazine Draw, the winner to receive £100 worth of Collins books of his or her choice.

Entries must be postmarked not later than 13th December 1984 and sent to Collins Publishers, P.O. Box, Glasgow G4 0NB, marked University Prize Crossword.



NAME
ADDRESS
UNIVERSITY

ACROSS

- African climber found under gooseberry? (8)
- Oriental priest — not the genuine article (6)
- In this case, port is seen to be inaccessible (8)
- Was this field marshal British? Yes and no (6)
- Nymph's plea on behalf of authors? (5)
- Tent-maker on the Mississippi (5,4)
- Italian sector preoccupied Montgomery to some extent (8)
- Lawman's artistic grandmother (5)
- Lifeless as a Tibetan ox I caught (5)
- Royalist up at Cambridge (5,3)
- 50% of the world's disreputable women? (9)
- Sort of wing 18 down started with (5)
- Opens it in Paris as art gallery (6)
- Foreign princesses in endless whimsical speculation (8)
- Novelist putting saint before eagle, unlike Hemingway (6)
- Philip of Spain's complex involved calories (8)

DOWN

- Seat for a part of Shakespearean comedy (6)
- Be no saint, perhaps, if wearing this (9)
- Particular variety of lyrical drama (5)
- Tory member's cover-up for female scholar (12)
- Difficult paper in English Literature (4,5)
- Table in Rome reserved for smart set (5)
- Revolutionary extremist nothing will satisfy? (8)
- Poet and economist at site of University (6,6)
- Racy tales of French TV doctor (9)
- Composer of operas involving 50 castrati (9)
- Inventive father of ill-fated high-flier (8)
- Dependent treated as slave, almost (6)
- Blind trio member detailed as player in Tom's absence (5)
- Harsh lawgiver upset Bennett's hero over nothing (5)

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

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

PROBLEM:

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

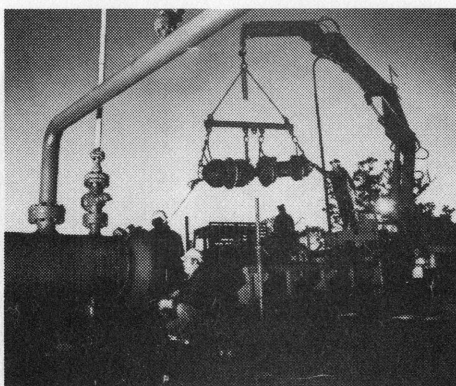
SOLUTION: THE INTELLIGENT PIG

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

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

HOW?

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



THERE WASN'T A COMPUTER SMALL ENOUGH AND TOUGH ENOUGH

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

A 'TOMORROW'S WORLD' TAPE RECORDER

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

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

FROM REEL TO REELS

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

THE RESULT

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

WHY THE GAS PEOPLE LIVE IN THE FUTURE

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

THE GAS PEOPLE - WORKING FOR TOMORROW'S WORLD TODAY

Gas

While you're studying Electronics/Physics, study this!



Marconi is a leading name in so many electronic high technology fields. The very latest state-of-the-art techniques are being used in a variety of applications.

Command and Control Systems is just one area where the level of engineering and scientific work involved is such as to stretch the intellectual capacity to the limits.

With the growth of our activities, we are always on the look-out for high-calibre graduates with a degree in electronics or physics; ambitious men and women who, in addition to having the ability to make an immediate contribution, can also accept responsibility at an early stage.

Our competitive salaries are matched by an

attractive package of company benefits and career aspirations find considerable scope for expression in an invigorating atmosphere – full of technical challenge.

Make sure that your first choice is Marconi. Come and meet us at the Careers Fair on October 31st. If you'd like to find out more 'phone or write to, Gill Waterhouse, Marconi Command and Control Systems, Chobham Road, Frimley, Surrey GU16 5PE. Tel: Camberley 63311, ext. 3131.

Marconi 
Command and Control Systems



Go get a dog and roger it

The Careers Directories are best summed up by the phrase GO GET a DOG and ROGET. To give them their full titles, they are called Graduate Opportunities (big and thick), Graduate Employment and Training (compact), Directory of Opportunities for Graduates (small but informative) and Register of Graduate Employment and Training (the Careers Advisers' version). All contain details of a large number of employers. GET tops the list with addresses of over 2000 companies. Since they all include a slightly different group of employers you may have to ferret around to find the one with details of your favourite company. Most of them have an index which can be understood in under five minutes so that you can find a list of employers of Chemical Engineers or whatever is your bent. Some have geographical breakdown giving details of employers in various parts of the country but these are not as good as the local lists of graduate recruiters in the Careers Library.

ROGET contains a very useful set of job descriptions; useful because they give you details of the activities which various areas of work include. Ask yourself 'Can I really

imagine myself doing that particular kind of work?' You may sometimes be surprised by your reactions.

All the directories contain editorial material on various topics including career choice, the search for a suitable employer, developing areas of employment, how to apply for a job and the selection process. There are however, a range of 70 Careers Information Booklets freely available in the Careers Library on almost every career you can think of from Actuary to Zoologist.

DOG is different from the others because it comes in four different species and contains much more editorial material. DOG 1 is about careers in finance; DOG 2 about careers related to science, engineering and computing; DOG 3 deals with business careers including marketing and DOG 4 is about postgraduate courses and the pros and cons of studying for a further degree. (DOG 3 and 4 should be available in November). Supplies of these free handouts are somewhat restricted but you should be able to select at least one copy for your own reference. Please be prepared to share or exchange with other final year students.

Applications— 'Gius a Job'

Why do you wish to work for Roly Poly Foods?

(Think!...I don't know...Do I?) Pause...(Thinks...again Ah yes!)

As a Mechanical Engineer with an interest in a career in Production Engineering, I have always been fascinated by production processes not least in the food industry. A recent course on flexible manufacturing systems has increased my interest in automation techniques and process control, etc...

At Roly Poly Foods the range of products you produce must require a wide variety of manufacturing techniques...reading your graduate recruitment brochure, I am attracted by the training you provide and the work in which your recent graduates are involved. It seems an environment in which I could soon make a contribution.

Well something like that would perhaps make a reasonable answer to a difficult question of this kind. Here are a few tips about application forms.

First of all read the form through before you start. Use black ink so that it can be photocopied. Be sure that your replies are

legible and without spelling mistakes. Avoid three word replies. Don't tell the employer what they can do for you but rather what contribution you can make. Pay attention to the layout of your words in the space provided. Try to be positive about your successes.

These are the basic requirements. Try also to be original and avoid giving the same answer as your friend. It is particularly important to avoid hackneyed phrases like 'I want to work with people'. One final tip — don't assume that employers are only interested in your studies. If you can write about spare time activities which provide evidence of team work, leadership, initiative on your part, commercial flair or practical, literary, verbal or numerical skills, all the better. Last of all, if you are about to get a PhD for studying Saturn's rings or some other subject not frequently heard of in the industrial world, don't put yourself forward as someone who knows a great deal about next to nothing. It is the skills you have developed which are important — analysis, logic, problem solving, report writing and so on — not necessarily the subject itself.

CAREERS FELIX

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- Interviews—How to succeed page 13
- Case Study page 13

INDUSTRIAL SOCIETY CAREERS FAIR 1984

Featuring over 60 companies

Wednesday 31 October
10.30am to 4.00pm

Great Hall and
Junior Common Room

Employers' Recruitment Brochures

Every day at this time of the year, a large bag of post arrives in the Careers Advisory Service containing recruitment brochures from employers. These range from the glossy to the plain, from the informative to the baffling.

The best ones include details of what new graduates actually do within various job functions. This kind of information comes in different packaging; some as 'A day in the life of Bill Brown' or 'Lizzy Locket's career so far' or just as a job description. You can be sure that Bill Brown and Lizzy Locket are not the worst graduates they ever employed and

their rate of progress might be difficult to match.

At least these brochures should give you a flavour of what graduates doing specific work in the organisation are about.

Details of the firm's training schemes are usually prominent in graduate recruitment brochures. Just as with brochures for exotic holidays, the discerning reader can learn as much from the omissions as from the content. If training is not mentioned there is unlikely to be any provided. Other important information to be found in these publications includes details of the business, the products

the company makes, and the locations of its factories and offices. Job vacancies for the forthcoming recruitment round are sometimes included with an indication of which degree disciplines they will consider for each vacancy. It is interesting that one third of the vacancies are for students with a degree in any subject.

If you intend to make a serious application to a company for employment, it is almost essential to read their recruitment brochure. Some companies, for example IBM and Peat Marwick, are outraged if you have not. There are always reference files available in the Careers Library if all the other copies have gone. Some employers have the habit of producing their literature very late and many students come to read these brochures on the day when the company is visiting the College. That is bound to be the day when the supply runs out.

Training for Engineers

Employers have many differing ideas about training and this is particularly noticeable in the engineering industry. Mechanical and Civil Engineers are usually given a much more formal and structured training than those of other disciplines. Some firms impose their training programme upon you and in others you have to keep asking if you want to receive more training. Training leading to the status of Chartered Engineer usually includes induction workshop practice, the application of knowledge and techniques to processes, design, business practice and 'objective training'. Induction often takes the form of a short course to tell recruits about the structure of the company, its products, lines of communication and the general philosophy of the management.

Many Imperial College graduates will have already experienced workshop practice but physicists, for example, entering the electronics industry may well be sent on a course at a local college to understand the tools and techniques used in industry.

The next stage of training tends to be the application of techniques to processes. This naturally takes on different forms depending on the industry concerned but requires some involvement with the production side of the business.

Some experience of design is considered to be of critical importance these days and includes an understanding of safety considerations, cost of buying in components or their manufacture.

Business practice is an introduction to commerce and finance and often includes a period of time spent in the marketing department.

'Directed objective training' usually takes about six months and is on the job training, designed to prepare engineers for their first responsible job. Many sponsored students will have completed all but their objective training before they leave college.

After that those wishing to become Chartered Engineers must reach the ripe old age of twenty-five and spend two years in a responsible job. Anyone without the necessary academic qualifications to become a member of one of the Chartered Engineering Institutions may take a little longer. Increasingly institutions are insisting on a written report of the training received and a professional interview.

Research or Commerce?

Ask many 35 year olds how they got to be doing what they're doing now and the answers will probably include something like — 'I saw this advert, I met this chap, I knew I didn't want to work in 'x', so 'y' was all that was left; I got bored with 'a' so I kind of drifted in to 'b'; the interviewer was so gorgeous...'

All rather random and erratic with apparently no long term plan. It's true that they probably didn't consciously apply any method but sub-consciously parts of the career choice process have been happening. There are five steps in the process — orientation, self-awareness, market awareness, matching and self-marketing. You may not even be at stage one yet or you may already be at stage five. Often success at stage five is dependent on how well you have done the other steps.

Orientation is just finding out what 'career choice' is all about, how you go about deciding, who and what there is to help you and what stage in the process you have reached. In reading this article you have

begun to orientate yourself!

Self-awareness. Before you can decide what is the best course of action, you need to know, for example, what you have to offer, what you want out of life, what sorts of things you would like to do in a job. This is one of the hardest stages in the process of choosing a career and often one which people skip, find too difficult or believe they have already done. At the end of this stage, you should have a list which describes you and all the things that you would like in a job or a course and all the things that you would hate.

Marketing awareness. Now you need to look at the choices. Analyse the alternatives—jobs, courses, year off. Break them down into their components. For example, what skills are required? What character traits are most suitable? Where will it lead?

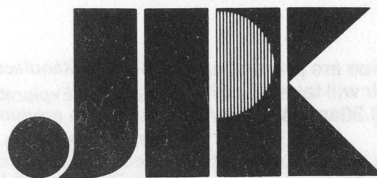
Matching. Now you look for the closest fit between your list about yourself and the characteristics of the jobs. Bear in mind, however, that there will always be something wrong with a job — the perfect job is a rarity which we all seek!

Self-marketing. Apply and be interviewed. These are discussed elsewhere in FELIX.

At all stages, you should 'test for reality'. You might believe that you're a good leader, but have you any evidence? Have you ever been in a situation where you have had to lead? If not, why not and what does it tell you about yourself? You want to work in the North West of England but the job that you want to do is only available in the South East. Which is most important to you, the job or the place?

Finally a word about environment — you can research your choice of career and arrive at the perfect job for you but if you then find that you don't like the people that you work with or the place of work is depressing, you will still be unhappy. So do try and see where you'll be working and meet the people you'll be working with, before making your final choice. Oh, yes, and don't forget your jolly old careers service, here to help you at every stage.

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Careers Fair 1984

The Industrial Society and the Careers Advisory Service are presenting the Careers Fair on Wednesday October 31st. The Fair will take place in the Great Hall and Junior Common Room from 10.30am to 4.00pm continuously.

There will be over sixty companies, many of whom will be looking to recruit heavily for the first time in several years. There will be a considerable range of activities represented at the Fair with large numbers of banks and accounting firms as well as representatives from the services and manufacturing and service industries.

The fair will require a considerable amount of organisation. If you feel you would be able to spare some time either on the evening of Tuesday October 30th or any time on Wednesday October 31st and help to make the Fair a success then please contact me via the chemical Engineering pigeon holes.

John Martin

1. **Air Products** Manufacture and Sale of industrial glasses and process plant equipment BNUOLMDH
2. **Arthur Andersen and Co** Chartered Accountants All Departments
3. **Arthur Andersen and Co** Management Consultants All Departments
4. **Association of Certified Accountants**
5. **Bell Northern Research** Research and development of telecommunications equipment UEPO
6. **Blue Circle** Manufacture and Marketing of Cement, ceramics and allied products All Departments
7. **BOC** Industrial and Medical gases, Medical equipment, vacuum technology and computing BUEOMDHP
8. **British Aerospace Dynamics Group** Design development and Manufacture of Guided Weapons Systems and Space Equipment AUOLMDPOH
9. **British Gas Corporation** Exploration, Production and Transmission of Natural Gas All Departments
10. **British Petroleum** International Group engaged in Discovery and Development of Crude Oil Resources, Manufacture and Marketing of Oil, Petrochemical and associated products All Departments
11. **British Rail** Rail and Sea Transport All Departments
12. **British Steel Corporation** Production of iron and steel All Departments
13. **Britoil** Exploration, production and trading of oil and oil related products All Departments
14. **Beecham Pharmaceuticals** Pharmaceutical Research production, technical marketing and sales All Departments
15. **Coopers and Lybrand** Chartered Accountants All Departments
16. **Courtaulds** Textiles, Paints, Plastics and Packaging All Departments
17. **Chevron Petroleum** Oil Company All Departments
18. **Civil Service Commission** Recruitment for government scientific and technical departments All Departments
19. **Datron** High technology instruments All Departments
20. **Ernst and Whinney** Chartered Accountants All Departments
21. **Ferranti** Development of techniques, equipment and software which form the basic unit from which large systems are built UEMP
22. **Ford** Design and Manufacture of motor vehicles All Departments
23. **GEC Power Engineering** Mechanical Engineering Laboratory Mechanical Engineering contracts, research and development AUOLMDPH
24. **GEC Turbines Ltd** Design manufacture and erection of large steam generators and power stations. AELMDHP
25. **Gencor** Mineral Mining and Processing of Metals BELDHJI
26. **Her Majesty's Government Communication Centre** Design and development of advanced communications systems and equipment EP
27. **Health and Safety Executive** Health and safety of both employees at their place of work and the general public All Departments
28. **Hays Allan** Chartered Accountants All Departments
29. **IBM** Design, development, manufacture, marketing, installing and servicing information systems All Departments
30. **ICI** Manufacture of Chemicals and pharmaceuticals on a world wide scale All Departments
31. **Johnson Matthey** Precious metals refiners Chemical manufacturers and Paint Fabricators All Departments
32. **Lloyds Bank** Banking All Departments
33. **Marconi** Design manufacture of high technology electrical systems All Departments
34. **Marathon Oil** Oil and Gas Exploration and Field Development ABCUEDHI

35. **Mars** Manufacturing and Marketing of Confectionary All Departments
36. **Mobil** Exploration, production, refining, distribution and marketing of petroleum products BNCUGOLMDJIPTAE
37. **M-O-Valve Co** Research design and Development of high technology electronic devices with professional, military and information technology applications NELDP
38. **National Physical Laboratories** Research and Development UELMDHP
39. **National Westminster Bank** Banking All Departments
40. **Noble Lowndes and Partners** Employee Benefits/Pension Consultancy UM
41. **Ove Arup** Consulting Engineers ACDE
42. **Peat Marwick Mitchell and Co** Chartered Accountants/Management Consultants All Departments
43. **Plessey** Development of high technology electronic systems ANUEOLMDHPT
44. **Pilkington** Manufacturing of glass and associated products All Departments
45. **Pilkington PE** Research, development and manufacturing of electro optical systems ANUEOLMDPT
46. **Price Waterhouse** Chartered Accountants All Departments
47. **Procter and Gamble** Development and manufacture of cleansing and domestic products All Departments
48. **Perkin Elmer** Manufacture of high technology analytical instruments BNUELMDF
49. **Rank Xerox** Design and development of reprographic machinery UEMD
50. **Reckitt and Colman** Manufacture of household goods, toiletries, pharmaceuticals, food and wine All Departments
51. **Rolls Royce and Associates** High technology mechanical engineering All Departments
52. **REME** Support for the army's engineering AED and various
53. **Royal Engineers** Military Engineering All Departments
54. **RAF** National Air Defence of the UK and NATO All Departments
55. **Royal Navy** Maritime Defence of the UK and NATO All Departments
56. **RTZ Services Ltd** Mining, Metal smelting processing and fabrication Chemicals, light engineering All Departments
57. **Sauter Automation** Environment controls, Building Automation, Energy Management BUFEFMDP
58. **Schlumberger Inland Services** Oilfield Service Company AUOLMDHJPG
59. **Shell International Petroleum Co Ltd** All aspects of the oil and chemical industry All Departments
60. **Spicer and Pegler** Chartered Accountants All Departments
61. **Systems Designers** Computer Real Time Systems House UEMDP
62. **SCICON** Computer systems, design and consultancy work All Departments.
63. **STC Laboratories** Communications Research (the research centre of Standard Telephones and Cables Ltd) BNUOLMDHP
64. **Touche Ross and Co** Chartered Accountants All Departments
65. **Unilever** Manufacture, marketing and distribution of foods, detergents and chemicals All Departments

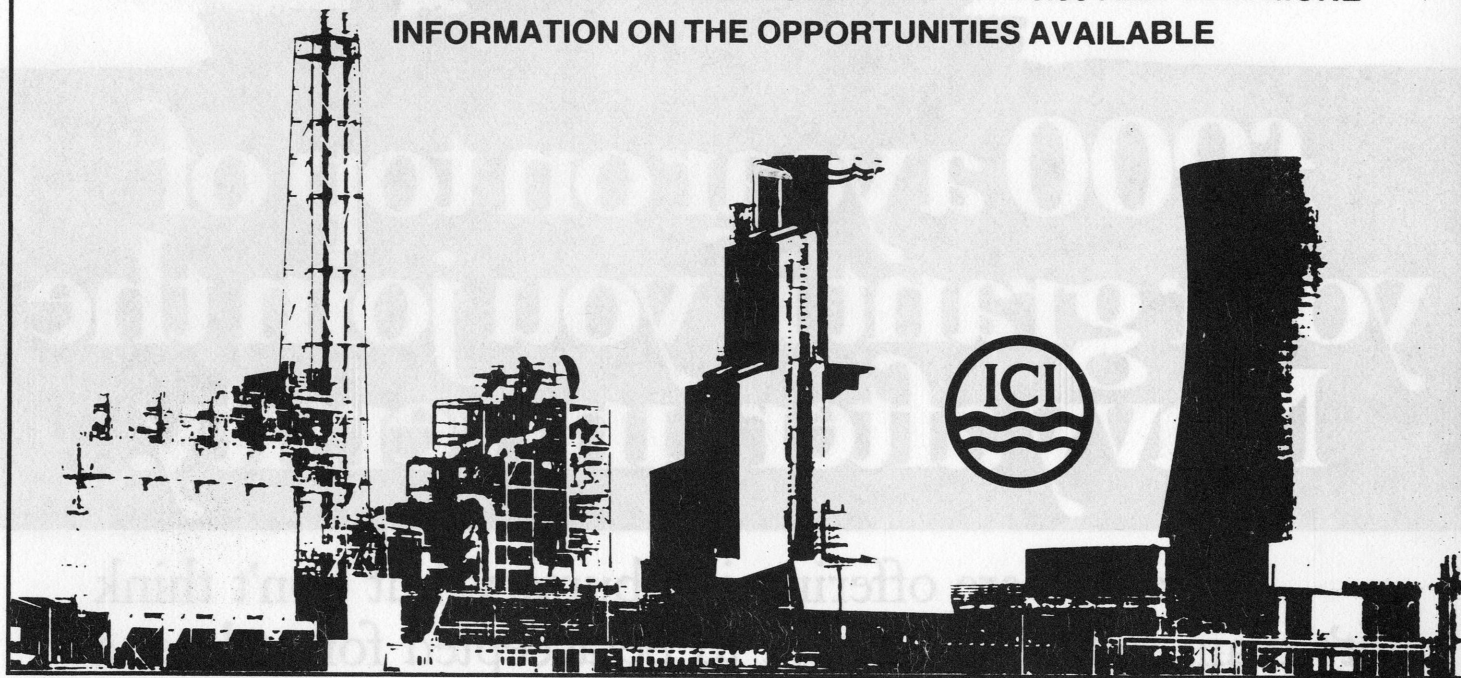
Key

- A Aeronautical Engineering
- B Chemical Engineering
- C Civil Engineering
- D Mechanical Engineering
- E Electrical Engineering
- F Environmental Technology
- G Geology
- H Metallurgy
- I Petroleum Engineering
- J Mineral Resources Engineering
- L Material Science
- M Mathematics
- N Chemistry
- O Management Science
- P Physics
- R Botany
- S Biochemistry
- T Social and Economic Studies
- U Computing
- X Biology
- Y Microbiology
- Z Zoology

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IN THE SHERFIELD BUILDING ON 31st OCTOBER 1984 AT 10.00 A.M. WITH MORE
INFORMATION ON THE OPPORTUNITIES AVAILABLE**



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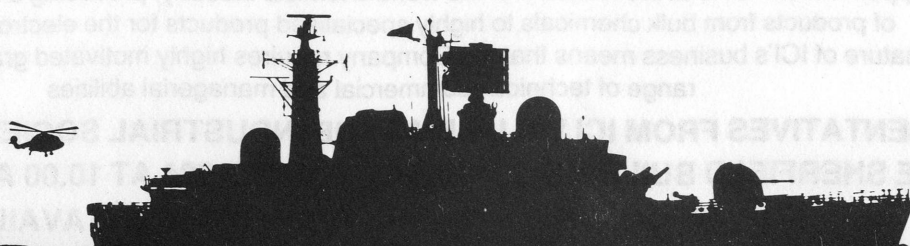
Highly competitive salaries will be offered; other benefits include profit share, a transferable pension scheme and BUPA. Assistance with relocation is available.

Final years students are invited to apply. For further information please contact the Careers Advisory Service or meet us at the Careers Fair.



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Or call at your nearest RN and Royal Marines Careers Information Office.



**ROYAL NAVY
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Interviews

How to Succeed

Here are a few basic instructions which are probably known to most of you but for the few not in the know—
BE PREPARED

Employers are looking for motivation towards the type of job for which you have applied and for motivation towards their company. Nothing irritates them more than when you apparently don't know what you're applying for or why.

Re-read the employer's literature the night before and jot down any questions you may have. Re-read your application form and imagine the sort of question you would ask if you were the employer. Practise answering these questions. Think of the worst question you might be asked and decide how you would answer it.

'Where do you see yourself in five years time?' 'What would you say were your strengths and weaknesses?' (you don't have to tell them the worst thing about yourself, think of a 'positive' weakness!) What made you choose this job (our company)? 'Have you enjoyed your course at IC?' (Remember you should be answering positively!)

DRESS SMARTLY

First impressions are tremendously important and we're told that some students still go to interviews in jeans.

DRESS COMFORTABLY

Yes, you do need to be smart but it's hard to present your best image when your feet are killing you or your collars stiff and new and digging in.

DRESS APPROPRIATELY

Whilst the dark blue suit, white shirt and sombre tie might be perfect for the firm of accountants, it might look a weensy bit out-of-place if you're going for a job in a disco.
DON'T BE LATE

Allow plenty of time for the pre-booked interview room to be changed to another on the other side of the campus; for the train to break down; or for you to have a wash and brush-up so that you can arrive looking smart and relaxed.

BE POSITIVE

Question: Do you have any experience of computing?

Answer: Er, well, not really, I er, I only went on a six weeks FORTRAN course but I only, sort of, um, learnt the basics, not much really...**WRONG**, lets try again

Question: Do you have any experience of computing?

Answer: Yes, I went on a six week FORTRAN course which taught me the basics. I enjoyed it (but only say this if you did!)

Practice now making positive statements

about yourself trying to avoid negative qualifications like, 'only, not really, just'.

MANIPULATE

There may be some facts about yourself which you think are particularly relevant to the job for which you are being interviewed. Make sure the interviewer knows about them before you leave the interview room. If you've had relevant vacation work, make sure he's aware of it in some way, by perhaps referring to it in your answer to a question. If you've read their brochure, make sure the interviewer knows.

BE POLITE, FRIENDLY AND INTERESTED

Treat the interviewer as you would a guest in your home. If you shake hands, try not to give either the wet-fish touch or the numb-hand squeeze! Look interested in what the interviewer is saying even if they're telling you something you already know. Thank them for their time as you leave but there's no need to grovel!

SECOND INTERVIEWS

These are normally held on the employer's premises and may include an evening meal, group discussions, case-history exercises, in-tray exercises, letter writing exercises, psychometric testing and interviews with managers, psychologists and Uncle Tom Cobbley and all. One firm which I visited last Summer reckoned that candidates could be interviewed by as many as ten different people in one day.

The Carers Advisory Service run a seminar on second interviews in the Spring Term and we also have a hand-out about them, but here's a couple of tips to be going on with:—

During the group discussions you get NO points for saying nothing and you get even fewer points for hogging the show and failing to listen to the others.

Regardless of what employers might tell you, they will be observing you all the time, so try not to get drunk or throw your soup at the managing director. Best of Luck!

Careers advisers

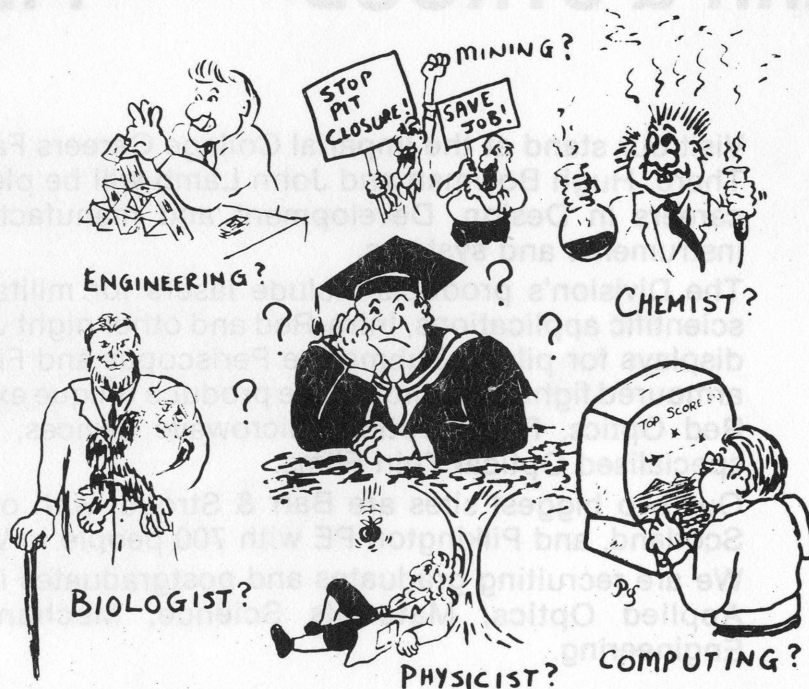
Whilst I would never say that all careers advisers are brilliant at their jobs I do think that many are misjudged because of the difference between the student's expectation of our rôle and the adviser's view of his or her function.

Elsewhere in FELIX is an article about career choice. Careers advisers can help you at every stage of that process. We can help you in many ways but we can't do it for you. It's your job, your life, your decision.

Careers advisers are totally impartial. We are not your parents or your teachers, we have no axe to grind. We have knowledge of the job market, of selection procedures etc but we don't know a lot about you and you're the most important factor in career choice.

Careers advisers can listen, ask appropriate questions, help you find the right sources of information, start you on the process of decision making, suggest other areas you can look at, help with applications, give 'mock interviews', show you the mechanics but we can't do the work for you.

You can meet the College Careers Advisers in many places. We're always at the ex-Students Careers Evenings run by the College Associations; one of us is always at the Lunchtime Careers Talks, anxiously counting heads, looking at our watches to see that the speakers don't overrun (or trying not to look too cheesed off when the speakers are appalling). We run the seminars on Wednesday afternoons; one of us is always in the library from 4.30pm to 5.30pm to answer quick questions, glance over application forms or CVs, or you can book to see one of us for an interview. There's no restriction on the number of advisers you can see or the number of times you can see them.



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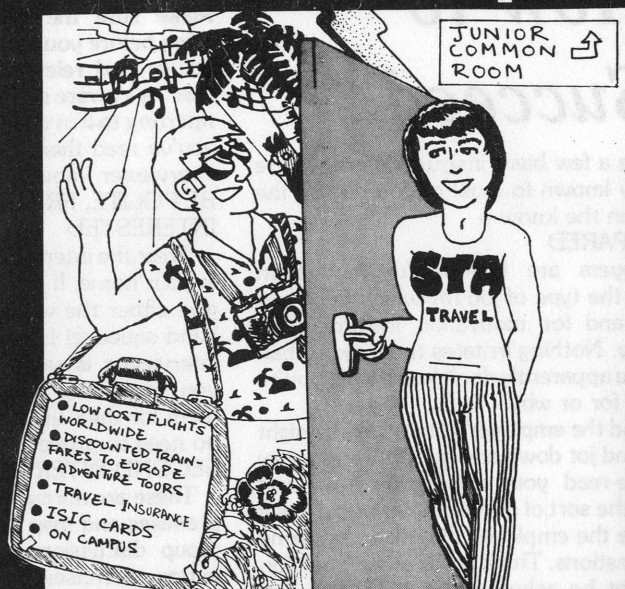
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SINGLES

45 rpm

Tom Robinson: *Rikki, Don't Lose That Number*

Tom has one of the best voices in the business, and on this latest single he uses it to the full. He's had a rough time over the years, shunned by the music press for being gay, and shunned by the public for being 'arty'. Hopefully, after 'War', this will be his 2nd big success.

Hazel O'Connor: *Cuts Too Deep*

Dragged from obscurity to stardom by the film 'Breaking Glass', it had seemed Hazel had returned to her roots with bland songs, and no enthusiasm, but with 'Cuts too Deep' she regains her old vitality and appealing voice. I still prefer 'Will You' but don't put this down too quickly. Keep it for late at night — alone. Then listen again — it's got wonderful lyrics.

Paul McCartney: *No More Lonely Nights*

OK, so it's Top 10 already, possibly even No 1 by the time you read this, but I've only just got it, and I had to review the best single by my favourite artist in many years. Go stuff

'Pipes of Peace' Paul; this is infinitely better. Simplicity, melody, quality: If only he'd put a decent end on it, instead of leaving the film soundtrack guitar fade, I would have no criticisms. Album's out this week. Buy it!

Eddy Grant: *Boys In The Street*

No-one seems to know what Eddy is doing these days. Obviously fed up with waiting for a new release, his record company have remixed this from 'Going for Broke'. Hardly surprisingly it's not up to much. 'Wish I was back in West India' Grant sings. Maybe, that's where he's gone?

English Evenings: *Tear You Down*

After the minor success of their first single 'What's the matter with Helen', Graham Lee & Lee Walsh have spent a year on a debut album 'After Dark'. If this first taster from it is representative, it's going to be pretty hot. Very clubby. Very funky. Very danceable. Watch out for the 12 inch Dorian Gray mix. Good stuff.

resemblance to its predecessor— 'Canan the Barbarian'— in which its director (Milius) gives the mythical element of the Conan story much more gravity. This myth is played down in Destroyer, both by the Screen-writers and Fleischer (the director), in favour of a tongue in cheek adventure. This I think is a shame, as it was this very myth/story telling style, as handled by Milius, which gave Barbarian both its power and originality. Barbarian was also an adult movie, unlike Destroyer. The characters and their relationships were developed in the more rarefied moments of the film and this emotional content not only gave the film depth but also heightened the set-pieces of action when they

came. Barbarian also showed considerable style in its humour and even its violence. In short Barbarian had 'class' and it's exactly this class that Destroyer lacks.

One might sympathize with Fleischer who, though conventional, is still totally professional and necessarily skilful given some bad casting in the form of Grace Jones and Tracey Walter (Malak). The Producers doubtless pushed Fleischer for a teeny-boppers movie.

But for all this, it's still a jolly good romp and very enjoyable — if you let it be. And you can leave the cinema safe in the knowledge that 'the good' will always dismember any mutant muppet that dares declare itself a god and virgins rule.

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Mars

CINEMA

Conan the destroyer

The film opens with Conan (Schwarzenegger) still pining for his lost love Valeria. Soon he is waylaid by the treacherous (and dead sexy) Queen Taramis (Sarah Douglas). The queen promises to bring Valeria back to life if Conan accompanies her niece Princess Jehnna (Olivia D'Uba) on a quest for a magical key that will unlock a mysterious treasure. Conan

reluctantly sets off with the princess and the queen's chief guard Bombaata. There after the plot is totally conventional, the hero having been recruited, accomplishes the mission only to find on return much treachery and evil, largely in the form of the hideous (or is it hilarious?) god Dagoth whom he promptly vanquishes.

This film bears little

REVIEWS

POETRY

What we do during travel

You can't beat the time — table, so relax, go languid. Write your own book, go on — I know you can. Or there is always the Sony Walkman.

Right, so the Walkman is out of batteries, the person next to you has rampant halitosis, and you never carry reams of paper or a word processor. What you need is some poems to read. Oh, yes you do.

It goes something like this: A poem may well be about people wandering lonely as clouds, comparing their friends to summer days and mincing about snivelling into their hankies. If you find one like that, you can always tear it out and use it as *your* hanky. Fair enough, but there is the other kind.

When a writer decides that an idea has to go into this format, he must use language at some density. Think it out — a short story uses five thousand or so words to put across either a point, or something which reads like the outline of a bigger book. A good poet can say anything he has to say in perhaps two hundred words, and that is why you need to carry poems alongside your railcard. They take hours to read and re-read, and take up a lot less space than 'War and Peace'.

So let's go. Where do we start?

Let's say 20th Century only. A lot less trouble that way. And who could be better than blunt — speaking Ted Hughes? Go for it, Ted:

The Jaguar
(extract)

...tiger and lion
Lie still as the sun. The boa-constrictor's coil
Is a fossil. Cage after cage
seems empty, or
Stinks of sleepers from the
breathing straw.
It might be painted on a
nursery wall.

But who runs like the rest past
these arrives
At a cage where the crowd
stands, stares, mesmerised,
As a child at a dream, at a
jaguar hurrying enraged
Through prison darkness
after the drills of his eyes

*On a short fierce fuse. Not in
boredom —*

*The eye satisfied to be blind in
fire,*

*By the bang of blood in the
brain deaf the ear —*

*He spins from the bars, but
there's no cage to him*

Simple enough at first glance, but read it like you play records — over and over again. Then you can follow different threads on each reading (base line, harmony, singer, rhythm). Just to start you off: the slow, sleepy opening is set in short sentences, which makes it appropriately slow to read. Once the jaguar is introduced, sentences run into each other conveying urgency. The sound of phrases is put to work. Try saying: 'Stinks of sleepers from the breathing straw.' and then: 'By the bang of blood in the brain deaf..'. See what I mean?

Hmm. Lecture over. Hughes isn't the only one fired-up by this Force-Of-Nature bit. Put on your Richard Burton voice and stick a leek on your lapel. Dylan Thomas, take the stage...

*The Force That Through The
Green Fuse Drives The
Flower.*
(Extract)

*The force that through the
green fuse drives the flower
Drives my green age; that
blasts the roots of trees
Is my destroyer.
And I am dumb to tell the
crooked rose
My youth is bent by the same
wintry fever.*

*The force that drives the water
through the rocks
Drives my red blood; that dries
the mouthing streams
Turns mine to wax.
And I am dumb to mouth unto
my veins
How at the mountain spring
the same mouth sucks.*

It might be fun to spend a holiday standing on a Welsh mountain in a thunderstorm, howling this theatrical verse at passing farm animals. Certifiable, I admit, but it would make a change.

Then there is T S Eliot. He writes HUGE poems. Well, he did, anyway. Despite his interest in reincarnation rituals, he is still six feet under. It is difficult to do justice to his stuff in a small space, but this is a bit of one of the earlier ones.

*The Love Song of J Alfred
Prufrock*
(extract)

*Let us go then, you and I,
When the evening is spread
out against the sky
Like a patient etherised upon
a table;
Let us go, through certain
half-deserted streets,
The muttering retreats
Of restless nights in one-night
cheap hotels
And sawdust restaurants with
oyster-shells:
Streets that follow like a
tedious argument
Of insidious intent
To lead you to an overwhelm-
ing question...
Oh, do not ask, 'What is it?'
Let us go and make our visit.
In the room the women
come and go
Talking of Michelangelo.*

Reading Eliot will give you that shell-shocked, soulful look that people mistake for deep appreciation. Look the part, and the rest will follow. A different type altogether is Thom Gunn. He likes writing about motorcyclists and their existential methods of suicide. Might sound contradictory to you, but who gives a toss — this is art. Mister Gunn gets the last word:

The Feel of Hands
(extract)

*The hands explore tentatively,
two small live entities whose
shapes
I have to guess at...*

*There is a sudden transition:
they plunge together in a full-
formed fury: they are grown
to cats, hunting without
scruple;*

*they are expert but desperate.
I am in the dark. I wonder
when they grew up. It strikes
me that
I don not know whose hands
these are.*

(Faber & Faber publish paperback anthologies of these poets, and lots of others. Have a look at Ezra Pound, W H Auden, Stevie Smith, Philip Larkin, and anything that catches your imagination. For a sampler, try 'The Oxford Book of 20th Century Verse, and 'The Oxford Book of Contemporary Verse').

JCR BAR

**Fosters
Promotion**
Only 50p per pint
Every lunchtime
Monday 29 to Friday 2 in
the JCR.

GREAT POSTER SALE

Tues 30 October
11.00 to 2.30pm
Union Main Staircase

Only £2 for large
posters,
£1.50 for small
Including The Cure, Joy
Division, U2, Clash,
Echo and the Bunny
men, etc, etc.

SUB- WARDEN WANTED

for Holbein House
Applicants are usually
PGs.
Apply direct to the
Warden, with CV, before
9 November.

UNION BAR

**Carlsberg
Promotion**
Only 50p per pint
Saturday 3 November.

YHA

Out of London

Fed up with London?

Are you tired of spending your weekends in the noise, dirt and confusion of London? Would you like a reasonably priced, enjoyable alternative? Then why not join the Imperial College YHA group, and come along on one (or several) of our fortnightly escapes from the city?

Every other Friday evening we leave college, and spend Friday and Saturday night in a beautiful part of England or Wales; usually in a Youth Hostel. Saturday and Sunday are spent walking in the surrounding countryside enjoying the scenery, fresh air and rural calm. This term we have already had a successful trip to the Dorset Coast, and further trips are planned to Snowdonia, the Peak District, the Yorkshire Dales and South Wales. We always aim to be back in London for last tubes on the Sunday night.

If you like the idea of joining us, come to one of our weekly meetings on Thursday at 12.30pm in Southside Upper Lounge. 'Butties' and coffee are available, and you can find out more about our activities. In addition to the walking trips we also arrange cinema and theatre trips, pub crawls and similar social events. We hope to see you soon at one of our meetings.

MICRO

If you by chance happened to miss the micro-club stall at the Fresher's Fair, or if you signed your name on the interest list and have forgotten all about us, then read on.

The club exists to provide members with an opportunity to use equipment that they probably wouldn't be able to afford. We currently own two BBC model B's (equipped with disc drives), a NASCOM 2 with 48K RAM, an Epson FX 100 dot matrix printer, a high resolution graphics plotter, an EPROM burner and several video monitors.

You may be under the mistaken impression that all the club cares about is playing games, but we do cater for the hardware enthusiast too. We have a full range of tools and a number of projects needing attention: examples are a robot-arm, a NASCOM disc interface, a speech synthesiser and 'BORIS'; an antiquated 6800 microcomputer system.

All the equipment is located in our own room, number 401 in the Mines building and the advantage of joining the club is that members can have access to these facilities at any time that the building is open.

New members or those interested in joining might like to come along and make some suggestions on what hardware we should buy, or any event you think we should hold in the future. The club room is always open on Wednesday afternoons, so if you fancy joining them drop in with £2.00 — we'd be happy to take it off you!

JEWISH

Friday night meals

Last week saw the start of another eventful Jewish Society year with the highly successful Freshers' Party, complete with the traditional 'Bagel 'n' chocolate spread', in which large numbers of enthusiasts indulged.

This is naturally only the *beginning* of all those exciting events. Tonight is the first of our Friday Night Meals. These are always enjoyable with an informal atmosphere prevailing. If you are interested, meet under Beit Arch at 6.30pm, Friday, 26 October, bringing £1 worth of dairy/Kosher food.

There will of course be a series of speakers this term. An important date to note is Thursday 15 November, when Julian Sorsby, Executive Director of Ravenswood Village for the Mentally Handicapped, will be coming to talk at IC.

Hopefully a trip will be organised at some point to the first Jewish Film Festival which opens at the National Film Theatre this week.

Don't forget, if you are a fresher, the free Kosher lunch is STILL AVAILABLE. If you are interested in this or any other aspect of IC J-Soc, then please contact Josie Glausiusz, Life Sci 2.

WANTED

WARDENS

for Mining House
Southwell House
Holbein House

Rent free flat for the
successful applicant,
who will normally be a
married postgraduate.

Further details and
application forms from
IC Union Office

Closing date 2 November

Bookshop
News

An exhibition of Soviet scientific publications will be held in the Science Museum Library, 19-24 November. The books exhibited will be examples of Soviet publishing in the English language in science and technology. For those of you who remember, the Bookshop staged a similar exhibition two years ago, which was extremely popular. As to whether the books will be available for us to stock at this moment in time, I cannot say.

New Titles - Hardback

The pop up Karma Sutra — Adan Ellis Publishing £7.95

Sir Agravaire — P G Wodehouse — Blandford Press £4.95

The defence diaries of W Morgan Petty — Brian Bethell — Viking Press £6.95

More Goon cartoons — Spike Milligan — Michael Joseph £5.95

Getting to know the General — Graham Greene — Bodley Head — £8.95

H G Wells — Aspects of a life — Anthony West — Hutchinson £12.95

Kenneth Clark — a biography — Mervyn Secres — Weidenfeld & Nicholson £12.95

'Bomber' Harris — Dudley Saward — Cassell £12.95

Piaf & Cerdam — Grimault & Mahe — W H Allen £9.95

Last Laughs — Graham & Sylvana Nown — Ward Lock £2.95

Paperbacks

Dictionary of Science — P Hartmann-Peterson — Arnold £4.95

Ruthless rhymes — Haris Graham — Arnold £2.95

Food lovers guide to Paris — Patricia Wells — Methuen £5.95

The New State of the World Atlas — Kidron & Segal — Pan £6.95

The Biggest Game in Town — A Alvarez — Flamingo — £2.50

The New Times Cookbook — Shona Crawford Poole — Fontana £3.95

The Beggars curse — Ann Cheetham — Armada £1.25

Black Harvest — Ann Cheetham — Armada £0.95

Box of delights — John Masefield — Fontana £1.50

Spearfish — Brian Callison — Fontana £1.75

A fragile peace — Teresa Crane — Fontana £1.95

The boat — Lothar-Gunther Buchheim — Fontana £1.95

Pick of Posy — Posy Simmons — Fontana £3.50

We also stock a wide range of drawing equipment from Staedler, Rotring, Ecobra, UNO and Blundell Harling.

SPORT

GOLF

One-club Golf

IC vs Sussex Univ 17.10.84

A bleak Sussex golf course saw Imperial's first ever official golf match, the result of which matched the weather rather well. Many excuses are available, however, such as none of the IC team knowing each other — which cast an air of uneasiness over the proceedings.

Another problem which no doubt arose from inexperience, was that the six IC players only had one golf club between them (although one Sussex player thought it closely resembled a snooker cue.) This obviously made the whole game rather slow, the only real excitement coming from P Hollin's colossal driving.

SNOOKER

IC Potted!

IC - 6 Harrington - 6

This visiting team, might well have been forgiven for forgetting that they were playing away. Along with last year's president, Andy Gannaway and the 'A' team captain from last year, Andy Hurford, the visit of Harrington also saw the return of Chris Jennings and John White, both former presidents of IC Snooker club.

As to the game itself IC can feel disappointed with having to settle for a sharing of the points. Although the Imperial team started well and led for most of the game they were unable to clinch the frame needed to win the match and the visitors, obviously anxious not to lose on returning to their old club took advantage as IC began to fade to capture half of the 12 frames in the first home game of the season for Imperial.

IC — 3 Tate & Lyle — 9 16.10.84 Every now and again there is a match in which most of the members of the team manage to play badly at the same time.

Against Tate & Lyle such a coincidence of events occurred. IC never really got into the game and frames slipped away leaving us on the receiving end of a thrashing.

UAU v Sussex (away)

	Imperial	Sussex
Rugby		
First	30	8
Second	15	6
Soccer		
First	2	3
Seconds	2	5
Thirds	0	0
Hockey		
Mens	0	0
Ladies	0	2
Netball		
Firsts	17	30
Squash		
Men Firsts	2	3
Badminton		
Men Firsts	4	5
Seconds	5	4
Ladies Firsts	7	2

CROSS-COUNTRY

Relay Success

Track & Field News

Last Sunday, the new Track and Field Section of the club turned out in force (4 men shame on you girls!) to the Inter-Collegiate Relays at Mottspur Park, Surrey, where we competed in the 4x100m, 4x400m relays

In the 4x100m there were two heats. In the first heat IC annihilated the opposition and were promptly disqualified for changing baton outside the changeover box.

Imperial went some way to making it up 10 minutes later by winning the 4x400 in relay.

ORIENTEERING

Lost in Holmbush

'Holmbush Revisited'

On Sunday the O-Club arrived at Holmbush in an assortment of vehicles (none of them an IC minibus — thanks, Eric) for a score event.

The IC men (and four ladies!) competed with varying degrees of success. A few finished well-up, despite falling in pits/getting lost at the first control/running right past the finish. A few, alas, were still out in the forest while the rest dehydrated in a nearby pub!

RUGBY

Strong Pack

IC 2nd XV - 18 St Thomas's 2nd XV - 0

IC, despite some notable absentees in key positions, produced a fine performance to defeat a competent St Thomas's team, last Saturday. The IC pack, produced a plentiful supply of ball from both scrum and loose phase. However due to the severity of the conditions and some early poor handling in the backs.

SAILING

Windy Win

IC—1 beat UEA

IC A v UEA Old Boys — match abandoned (eventually).

The Sailing Club bandwagon travelled to Oulton Broads last weekend to be greeted an icy cold force seven wind which threatened to make any racing impossible. IC 1 soon moved into a winning position against UEA, although the Coypu Brothers were involved in several dicey incidents which ultimately resulted in their capsize and near drowning in the 'Waveney Water'. Never-the-less the remaining team members stayed upright and notched up a fine victory.

BADMINTON

Missing Man

UAU vs Sussex

A look at the results sheet would suggest that Imperial had a fairly successful day. However, there is a gloomy picture behind the figures. It was embarrassing to turn out two incomplete teams and IC can only keep apologising to Andy McAleer who made the journey only to find he didn't have a partner. The remaining group matches are all in London so IC have no excuse for not fielding six players in each team.

Mens I

Where was the sixth man? IC lost the match 5-4 having conceded three games before the match started. Sussex were not a strong side, having only one proficient pair. This must go down as a match we should have won.

Mens II

A 5-4 win with three conceded games again. Imperial first pair did the damage by beating their first pair in straight sets. Then it was routine for both pairs to clean-up the Sussex 2nd and 3rd pairs. The standard of play was surprisingly low but it still feels good to win.

Ladies

Apparently, the rumours of our magnificent six had not spread as far afield as Sussex for they actually gave us an opposition to play (unlike Guys and LSE!) Our quality of mercy was not strained (it droppeth as the gentle rain from heaven — Merchant of Venice — ed). Imperial gave them two games resulting in a 7-2 victory.

BOAT CLUB

Watneys Wins

Watney fours head

Two of the four crews entered in this Head of River from Hammersmith Bridge to Chiswick Bridge won their divisions. The elite coxless four of W Mason, W Downing, J Griffiths and A Reynolds won convincingly beating their nearest rivals Molesey by 15 seconds.

Friday 26

- **IC RADIO** 8.00-9.15am Chris Ames with the breakfast show.
- **ICCND BOOKSHOP** 12.45pm JCR, Sheffield. Buy books, t-shirts, etc. Join ICCND and find out details of the march to Barrow.
- **ISLAMIC SOCIETY** 1.00pm Union Building (follow arrows). Friday congregational prayers.
- **CHRISTIAN UNION** 6.30pm Music Room, 53 Princes Gate (opp Mech Eng). 'Prepare for Battle' — guest speaker Graham Warner talks on the person of the Holy Spirit. Coffee from 6.00pm everybody welcome!
- **JEWISH SOCIETY** 6.30pm Meet Beit Arch. Jewish Society Friday Night Meal, bring £1 worth of dairy/Kosher food.
- **'WIND EXTRAVAGANZA'** 7-10pm Great Hall Sheffield. All wind players, play 'Berlioz: Funèbre et Triomphale'.
- **SPORTING MOTORCYCLE CLUB** 7.30pm Computer Conference Room, 4th floor Mech Eng. Two films, King Kenny and Narrow Edge, then pub run to Rose and Crown, Kewbridge at 9.00pm departing from Southside.
- **PARTY** 8.00pm The Lounge, Union Building, ground floor. Featuring 'The Wild Men of Wonga' and Daniel Peacock, star of 'The Comic Strip', £1.50 with reduction to Ents Cardholders.

Saturday 27

- **CND** National Demonstration to Barrow.
- **NIGHTCLUB** 9.00pm Union Building, ground floor. The Lounge Nightclub featuring 'The Adventurers' and disco until 2.00am, £1.25 or 75p to Ents Cardholders.

Sunday 28

- **CHAPLAINCY SERVICE** 10.00am Consort Gallery Sheffield.
- **CATHOLIC SOCIETY MASS** 11.30pm and 6.00pm More House, 53 Cromwell Road. Mass, Bar Supper and Talk.
- **IC RADIO** 12.00-14.00pm Steve Monteith with the IC Radio Top Thirty.
- **HACK AND SLAY** 1.00pm Union Senior Common Room. Wargames.

Monday 29

- **THIRD WORLD FIRST** 12.30pm Elec Eng 403A. We will be doing some role playing relevant to Third World problems. Come and enjoy yourself.
- **ICCAG** Lunch time meeting 12.30pm ICCAG Office, top of Union. Pay as you eat lunch.
- **HANG GLIDING** 12.30pm Southside Upper Lounge.
- **QRT RICE AND JELLY** party 6.00pm Union Upper Lounge. Price 50p (by Membership).
- **DANCE CLUB** 6.30pm and 7.30pm JCR, Sheffield. 6.30pm — Jazz Funk & Disco, 7.30pm — Advanced Ballroom Latin, 75p.
- **WELLSOC** 7.30pm Physics LT1. Meeting, Prof John Maynard Smith talks about Evolutionary Controversies.
- **IC RADIO** 20.00-21.00pm Philip Marsden with the Oldie Show, and 21.00-23.00 Raj Singh with Radio Spares.

Tuesday 30

- **AUDIOSOC** 12.30pm Union Upper Lounge. Discount record club meeting, buy records, cassettes, videos etc at trade prices.
- **MASS AND LUNCH** 12.30pm Chemistry 231.
- **HOVERCRAFT CLUB** 12.45pm Lower Gallery Linstead Hall. Meeting.
- **KEN LIVINGSTONE** 1.00pm Great Hall, Sheffield.
- **RIDING CLUB** 1.00pm Southside Upper Lounge. Meeting.
- **WELLSOC** 1.00pm Physics LT3. A member of the National History Museum talks about The Ascent of Man.
- **FRIENDS OF PALESTINE** 1.00pm Civil Eng Dept Rm 208. General Meeting, anyone welcome.
- **STOIC BROADCAST** 1.00pm and 6.00pm JCR (lunchtimes only), Southside TV Lounge, and all hall TV Sets. Calling all Dr Who fans... STOIC are showing a video of the Easter '83 Longleat Convention. Can You afford to miss it? (Don't answer that).
- **STUDY SERVICE** 1.15pm Read Theatre, Sheffield. Linking Higher Degrees to Social Needs by Dr Alec Dickson, Founder of VSO.
- **OPSOC** 6.00pm Top of Southside Bar. General meeting, rehearsal after at 7.30pm at 53 Princes Gate.
- **WINE TASTING SOCIETY** 6.00pm SCR, Beit. Spanish Rioja Tasting, pronounced 'Ree-oh-ka' this region of Spain produces a very distinctive wine - crisp dry whites compliment the full oaky reds. £2.00 for non-members, £1 for members.
- **JUDO PRACTISE** 6.30pm Union Gym Beit Quad. 50p mat fee.
- **DANCE CLUB** 7.00pm and 8.00pm JCR, Sheffield. 7.00pm — Beginners Ballroom/Latin, 8.00pm — Intermediate Ballroom/Latin. 50p.
- **IC RADIO** 21.00-23.00pm Aids 'Virgin' Dye with the new chart.

Wednesday 31

- **ICCAG** 12.45pm meet ICCAG Office. Visiting Patients (St Pancreas)
- **HACK AND SLAY** 1.00pm Union Senior Common Room. Wargames.
- **ICCND** 1.00pm Huxley Basement 130. Video: 'The War Game', the film, that has been banned from television by its makers, the BBC, for over twenty years. Find out why!
- **ISLAMIC TEACHINGS** 1.30pm 9 Princes Gardens. What does Islam, Monotheism, etc mean.
- **HAMSOC** 3.00pm Meet 2.00pm above Southside Bar. Afternoon Tea at Harrods. Approx £4.00.
- **DRAMA WORKSHOP** 2.30pm meet Dramsoc Storeroom. Come and take part in some silly games and improvised drama, everyone welcome!
- **DANCE CLUB** 7.00pm JCR, Sheffield. Beginners ballroom/Latin, identical to Tuesday Class. 50p.
- **IC RADIO** 21.00-23.00pm James' Rock Show.

Thursday 1

- **OPEN DAY** 10.00-4.30pm Royal School of Mines. Company and department exhibits about life after a degree at college.
- **METHSOC MEETING** 12.30pm Chem Eng E400. Informal Meeting lunch available.
- **AUDIOSOC** 12.30pm Union Upper Lounge. Discount Record Club Meeting buy

records cassettes, videos, etc at trade prices.

- **ICYHA BUTTIES** 12.30pm Southside Upper Lounge. Our weekly meeting with information on this terms coming events. All welcome.
- **BALLOON CLUB MEETING** 12.45 Southside Upper Lounge.
- **ISLAMIC SOCIETY LUNCH** 1.00pm Union Concert Hall. Everyone is most welcome.
- **ICCND** 1.00pm Physics 2. Speaker: Dr Phil Webber author and scientist speaks on one of his books 'London After the Bomb'.
- **WELLSOC** 1.00pm Physics LT3 Professor J Z Young talks about the neurophysiology of memory in a talk called — 'Memory: Especially in Octopuses'.
- **INDUSTRIAL SOCIETY** 1.00pm Chem Eng LT2. Speaker from British Rail Engineering, on 'What happened to the Advanced Passenger Train?' All welcome!
- **STOIC BROADCAST** 1.00pm and 6.00pm JCR (lunchtime only), Southside TV Lounge and all hall TV Sets. Newsbreak.
- **SCIENCE FICTION** Society library Meeting. 1.00pm Union Green Committee Room. Access to the society's 600 volume library. All members welcome.
- **CONCERT** 1.30pm 53 Princes Gate. Paul Barrit (Violin) and William Howard (Piano).
- **QURANIC CIRCLE** 1.30pm 9 Princes Gardens. Learn how to read the Quran.
- **BLUE PETER** 5.00pm BBC 1. Bo, C & G motorised Mascot appears on Blue Peter as part of the build up to this year's Brighton run on Sunday 4th Nov. Also appearing will be the only other car of the same type (James and Browne).
- **ICCND** 7.30pm ME 220. Film 'Apolcalypse Now' a brilliant portrayal of the madness of war. Members 20p/Non-members 50p.
- **ICCAG SOUP RUN** 9.15pm meet Weeks Hall, Princes Gardens. Taking soup, biscuits and meeting some of London's homeless.



Wild Men of Wonga

Dan Peacock of 'Britvic Ad' fame brings his new band 'The Wild Men of Wonga' to IC for tonight's party - 8.00pm, The Lounge, Union Building, ground floor.

CITY AND GUILDS CELEBRATE CENTENARY

The details of official centenary celebrations for the City and Guilds college have now been finalised. The college was founded in 1885 and to commemorate the first hundred years a book of the history of the college is to be published.

The main celebrations will be in the week of 26th February to 1st March 1985 and the theme is 'Engineering for Wealth'. This emphasises the contribution of Engineers to the wealth of the country for the last hundred years.

A month-long exhibition of the early history of the City and Guilds college will display items

from college archives relating to the foundation and history of the college and will track the careers of its distinguished Staff and Students. The exhibition will be housed in the Consort Gallery from 28th February to 29th March 1985.

On a more futuristic note there will be a one day symposium entitled 21st Century Technology as well as a related exhibition entitled 'Technology 2000'. The symposium, to be held on 27th February 1985, will examine the implications and opportunities for industry, education and employment presented by the technology currently being developed, as well as the continuing role of the engineer in wealth creation.

There will be many distinguished speakers including the Rector, Lord Flowers, who will explore the ways of informing society so that it can benefit from the technical advances of the next century and the demands of this society on the democratic decision-making process. Other speakers will include Professor Igar Aleksander the current holder of the Kobler Chair in the Management of Information Technology of Imperial College;

Sir Arnold Hall, Deputy Chairman of the Engineering Industries Council; Professor Tom Husbands, head of Mechanical Engineering; The Viscount Caldecote, Chairman of Investors in Industry (Who are backing the Silwood Park technology transfer scheme as reported in Felix—No 680—); Sir Robert Clayton, currently a member of the UGC and the Monopolies and Mergers Commission; Prof Patrick Dowling, head of the Engineering Structures section in the Dept of Civil Engineering; Professor Roger Sargent, head of Chemical Engineering and Chemical Technology; and Dr Ian Mackenzie, a former ICU president currently at the London Business School.

Technology 2000 is a two day exhibition of some of the college's latest achievements and inventions. In addition it will be a comprehensive guide to current research and the implications of the work.

There will also be a centenary banquet on 26th February at the Guildhall with speakers including the Lord Mayor of London and the Rector, Lord Flowers.

Boo! Wooley!

More than a few eyebrows were raised when it was announced that the Rector had appointed Professor Bruce Sayers to replace Professor Manny Lehman as head of the Department of Computing. In an unprecedented move Prof Sayers went to his new position directly from the headship of Elec Eng. At the time cynics, including most of DoC's academic staff, were of the opinion that he didn't know enough about the latest research in DoC, since his field of research is electrical engineering applied to medicine. The reason given for such an unorthodox appointment (headships are normally passed round senior academics in a department on a 'Buggin's turn' principle) was that the Rector considered the department's research had become concentrated in too narrow a field. Some believed that perhaps this was an enlightened decision on the part of Lord Flowers, but it seems that those who took the opposite view have been proved right. The department's morale is slipping, there have been major semi-public rows between senior academics and the new head, and the general bad feeling which has been created is starting to adversely affecting undergraduate teaching.

Stoic, the Student Television of Imperial College, is an organization which has long been the butt of many jokes in Union circles. This small but extremely earnest bunch of dedicated cameramen, sound recordists, producers, directors, presenters, interviewers, etc make weekly news and entertainment programmes. Unfortunately this is largely for their own benefit (to boost their chances of a career in television) since their 'campus network' is so limited more people are involved in making the programmes than watching them! Neither are they renowned for being overly competent, although the biscuit was well and truly taken last week when they rang up the FELIX Office and asked us to look in the 'Diary' page and tell them which programmes they were showing this week!

SMALL ADS

ANNOUNCEMENTS

- **QT Cheese & Wine** (subject to availability) Party coming soon.
- **For cheese and wine** read Jelly and Rice.
- **The cheese and wine** is free.
- **Jacob Bronowski's** got nothing on Wellsoc.
- **Eight legs**, two eyes, one beak and all I can remember is Wellsoc on Thursday!
- **If you haven't** evolved yet see Wellsoc this week.
- **More hot air** than Debsoc! IC Balloon Club meets every Thursday in Southside Upper Lounge. All welcome.
- **Ex-Southwell** residents please remove all your junk from the quiet room. Anything not removed by 3 November will be disposed of.

FOR SALE

- **One 5-speed** men's racing bike. Good condition. £40 ono. Contact Myles Thompson (CE4) via letter racks or on 340 6509 after 6.30pm.
- **Ladies bike** good condition newly painted £35. Contact Miss CE Smith via CE4 letter racks or Tel 675 0617.
- **Vauxhall Viva SL 1968**. MOT till June, taxed till December. Needs some attention. £100 ono. Phone 4393 or 954 2136.
- **K Reg Morris** 1300 saloon (Blue). Good condition. MOT May 1985. £400 ono. Contact Alex Sellwood MRE.

● **Honda VF750S**. White. Nose fairing, carrier. Immaculate. 6000 miles. £1500 ono. Contact Tim Bennett. Elec Eng 3.

● **Nordica ski boots size 7**. Good condition. Contact Dawn Williamson Chem Eng letter racks.

WANTED

● **Drivers** for the soup run urgently needed—ICCAG pays all expenses. Please contact Mark Alderton, Elec Eng 2.

● **One female**, non-smoking student to share in flat for 4. £32.50 rent plus bills for double room and lounge kitchen and bathroom. Phone 370 9042 or see M Rudge, Biochem 2 or A Webb Life Sci 2.

● **Drummer and vocalist** for quality HM/Rock band. Vocalist may be male or female, but must be good. Apply J Grey, Aero 1.

LOST & FOUND

● **Found** in Linstead Hall, inscribed pewter tankard. See Phil Hollinshead, Linstead A28.

● **Lost** To any member of RSM who attended the Geology Freshers Dinner October 19, have you seen my clothes? They were in a Sainsbury's carrier bag and consisted of a white dress, petticoat, tights and black leather court-shoes. I think it might have been a bloke who took them by mistake. Please get in touch via pigeon hole. Vanessa Dodge Geology 1.

PERSONAL

● **First the warden**, next the sub-warden. Are you next Tony Ashton? Willy J.

● **Duncan Bryant** a man grotesquely under-developed!! EZC.

● **Nige**, Kate loved the way you handled the gear knob in the red projectile.

● **Forget python** of Linstead. Forget tapeworm. Here's quasimodo of Linstead.

● **Has Esmerelda** been forsaken for Louise? Shame he might lose his foot.

● **Was it a night** on the green or just a roll in the Heather?

● **Wanted** a female botanist to tend cheese plant. Contact Wally, Aero 2.

● **Who is** the scarlet mushroom?

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