



FELIX

THE NEWSPAPER OF IMPERIAL COLLEGE UNION

Friday 6th June 1980

Issue No 556

Beit Residents evacuated last Saturday morning at 4 - see page 3

Michael Arthur writes about accommodation for next year - page 9

FELIX Exam on centre insert Write out your own certificate!

CHEERS! PRINCESS MARGARET

HRH Princess Margaret arrived at 170 Queen's Gate, last Friday at 12:45 pm.

The Princess was met by the Rector, the Lord Flowers, FRS. The luncheon guests were presented to Princess Margaret by the Rector. The President of ICU, Chris Fox was asked: "What's it like being President of 800,000 students?" Chris explained that he was not the President of NUS and the conversation moved on to discussing the Young Farmers Rally in Herefordshire.

The ICU Deputy President Elect, Miss Rae Snee, was also presented to Princess Margaret and after she found out that Rae was this year's Rag Chairman, the Princess said: "Oh. I think that's really wonderful - but do they understand the jokes?"

After lunch the Princess was shown several presentations in Biochemistry, Electrical Engineering and Metallurgy and Materials Science departments.



Mickie Marsh

Biochemistry Department

The Princess was met on arrival by Professor E A Barnard, Head of Dep.

She was given a general introduction to Asthma Research by Dr H Morris.

Then followed

- presentation on Asthma research with displays and demonstrations of Mass Spectrometer by Dr G Taylor, Miss C Jones and Dr H Morris.
- presentation on pain and Schizophrenia by Mr Etienne.
- presentation and demo on Muscular Dystrophy Research by Dr P J Barnard and Mr J Pizzey.
- demonstration on Enzyme assays in Muscular Dystrophy by Mrs J Lyles.

Electrical Engineering Department

The Princess was met on arrival by Prof B McA Sayers, Head of Dept.

Then followed:

- demonstration of the "Talking Switch-

board" by Dr J C Vickery and Mr G Wood.

- demonstration on "surface mapping" by Dr D M Munro and Mr S Draper.

- presentation "Fox rabies in Europe" by Prof B McA Sayers and Dr J Ross.

Metallurgy And Materials Science Dept

Princess Margaret was met on arrival by Prof D W Pashley, Head of Dept.

The Princess was given a demonstration on metal cutting by laser by Dr W M Steen, Miss J Alexander and Mr J Kamalu.

Then followed:

- an introduction to Electron Microscope by Dr F J Humphreys.
- a presentation by Dr H M Flower on stress corrosion work using specimens and video recordings.

HRH Princess Margaret departed from the Main Entrance of the Royal School of Mines at 4:00pm.



The Princess is shown metal cutting by laser

Mickie Marsh

JUST A SEC!

Social And Athletic Colours

I apologise for the delay in getting the certificates to you. To speed the process up you may pick them up from the Union Office.

ELECTIONS

New Dep Rep

We at last have someone willing to be Min Res Eng Departmental Representative for next year. He is W S Tortike of Pet Eng 1. Still no one has stood in Civ Eng!

Major Sub-committees

Most have been elected now.

- OSC Chairman - Pravin Patel
- Pub Board Chairman - Jon Firth
- RCC Chairman - Roger Brugge
- SCAB Chairman - Fiona Sinclair
- SCC Chairman - Ian Hanley

The ACC Chairman will be elected on Monday night at the ACC AGM.

Book Buyer

The Union's Book Buyer for the Haldane Library is John Whitehouse.

The paper is still up in the Lower Lounge for the post of External Affairs Committee Publicity Officer.

Joint Council

Joint Council is on Monday 16th June in the Union Dining Hall commencing at 2:00pm. I would like to remind members that I need all papers in by Monday — anything later will be ignored by me. The papers will be delivered to the departments on Friday 13th.

Exec Party

The event of the year is in the JCR on Thursday 19th June. The fun begins at 8:30pm and as there is a bar extension we shall still be there right up to 2:00am.

I hope you like the poster (apologies to the NY Times and Warner Bros) which appears in this edition of FELIX.

Dinner-in-Hall

The last Dinner-in-Hall will be on Tuesday 17th June at 7:00pm. If you want to go you may book in the Union Office.

Club And Society Chairman Elect

Before you leave for your summer fling make sure two things have been done:

1. A Freshers' Fair Form has been filled in.
2. A list of the new committee members has been handed to Annie in the Union Office.

WHAT'S ON

FRIDAY 6th JUNE

IC Christian Union Meeting in the Music Room, 53 Princes Gate at 6:30pm. With talk by Vernon Blackmore on *God Now*.

Anti-Apartheid Regatta Group At IC Meeting on the Henley Regatta at 1:00pm in the Green Committee Room.

SATURDAY 7th JUNE

London Cycling Round London Cycle Ride at 10:00am from St Pauls Cathedral. The ride will call at London town halls as part of the campaign for 1% of transport budget to be spent on cycle facilities.

MONDAY 9th JUNE

Joint ACC AGM in the Union SCR at 5:30pm. All ACC Captains and Captains-Elect must attend.

TUESDAY 10th JUNE

Riding Club Meeting between 12:30 and 1:30 in Room 1110 (level 11) Electrical Engineering.

WEDNESDAY 11th JUNE

Graffiti 'At Home' between 12:30 and 1:00 in the Graffiti Workshop, 2nd floor West Staircase, Union Building.

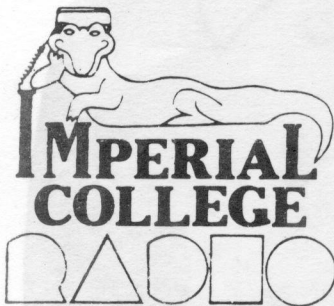
THURSDAY 12th JUNE

STOIC Transmission at 12:45 and again at 6:00. With Summer News-Break.

Hot Air Balloon Club Informal Meeting at 12:30 above Stan's Bar.

PG AGM in the Senior Common Room at 1:00pm.

Latin American Society presents a lecture in Portuguese on *Post-Industrial Society and a New Techno-Imaginative Way of Thinking* in Lecture Theatre 140, Huxley Building at 12:30pm.



301m/999kHz Medium Wave

POST EXAM HANGOVER?

Sexual Problems?
Receding Hairline?
Inferiority Complex?

Don't just keep it to yourself, give us all a laugh. Between 6:00 and 9:00pm, this Saturday we present Rich Wilson (ex RSM Hon Porn, BMA, Anadin — the IC Radio Doctor. Ring in (3440) your problems for expert answers. Written questions acceptable. Nothing acts faster than prune juice.

IC RADIO TOP TWENTY 2nd June 1980

- 1 (2) Paul McCartney — Coming Up
- 2 (9) Graham Parker — Stupefaction
- 3 (1) Kate Bush — Breathing
- 4 (5) ELO — I'm Alive
- 5 (18) Thin Lizzy — Chinatown
- 6 (6) Peter Gabriel — No Self Control
- 7 (11) Lew Lewis — 1:30, 2:30, 3:35
- 8 (-) Styx — Lights
- 9 (20) Barclay James Harvest — Capricorn
- 10 (4) Cure — A Forest
- 11 (-) Eddie Howell — Hatcheck Girl
- 12 (-) Barbara Dickson — In The Night
- 13 (-) Joan Armatrading — Me-Myself-I
- 14 (-) Fleetwood Mac — Think About Me
- 15 (13) Steel Pulse — Don't Give In
- 16 (19) Photos — Irene
- 17 (-) Elkie Brooks — Why Don't You Say It
- 18 (3) Pete Townshend — Rough Boys
- 19 (10) Undertones — My Perfect Cousin
- 20 (14) Shakin' Street — Susie Wong

Focus on Harry Chapin

Hear the story behind the singer/songwriter who brought you songs like *W.O.L.D.* and *Cats In The Cradle*, the campaigner who was personally appointed by President Carter to sit on the World Hunger Commission, and the performer who does 200 concerts a year; half of them benefits. Hear the story behind **HARRY CHAPIN** in **FOCUS** this Sunday at five.

P Bennet
(Producer/Presenter)

As from Wednesday 11th June, IC Radio will be broadcasting ALL DAY long from 9:00am through until the usual closedown at 1:00am.

Sixteen hours of good music EVERY DAY!

OUT IN THE COLD!

Phil Thurman



Phil Thurman

RESIDENTS SAFE AFTER BEIT FIRE

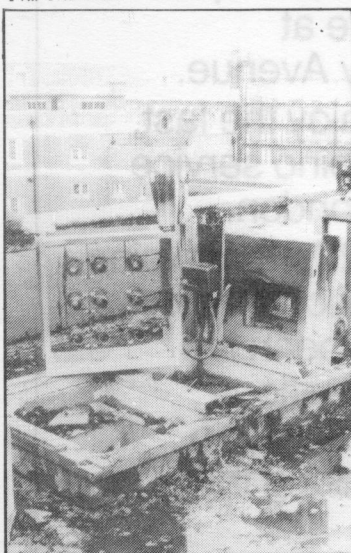
At 4:10am, last Saturday morning, Beit residents and their guests were woken by a fire alarm. This time it was for real — flames leapt from Beit roof.

Two police officers, who were on Embassy patrol, spotted smoke rising from the roof. The police went into the Beit messengers office and spoke to the security officer, Mr Wilson. The group climbed up to the Botany roof. They saw flames coming from a shed and the police immediately radioed for the fire brigade.

Mr Wilson went back to set off the alarm and to evacuate both hostels. He went to each floor and left the residents to spread the word. One or two students banged on the doors of the 'heavy' sleepers and the hall was completely evacuated in a few minutes.

The fire brigade came five minutes after the radio call. Fireman with breathing apparatus checked the South wing of Botany while others used CO₂ to put out the fire on the roof.

Beit residents, some wearing their night clothes, sheltered from the rain by standing in the entrance to Chem Eng. After about forty minutes they were able to return to their rooms.



£5000 worth of damage as extractor plant is destroyed by an electrical fault.

Loans to replace grants

Concern is being caused by the investigation of the Commons Select Committee on Education into the possibility of introducing a system of loans to students to replace the present grant system.

The possibility of introducing such a system has been discussed at intervals ever since the present government came to power. It is known to be favoured by a number of senior ministers including Sir Keith Joseph.

The Committee last week took evidence from the secretary of the Committee of London Clearing Banks, who offered the opinion that the major banks would be interested in any scheme that offered "a reasonably commercial rate of interest", provided that repayment was made over a reasonable period of time, and that certain safeguards were given.

Most of the evidence given to the committee so far points to the introduction of a mixed system of grants supplemented by loans. This is the system used by most of the European and American countries who use loan schemes.

According to evidence from Professor Cedric Sandford, who has for some time campaigned for a loan system, a third of students at Bath and Exeter expressed a preference for loans in preference to grants.

The National Union of Students has already raised the question with the Department of Education and has made clear its objections. The NUS is expected to submit evidence to the Committee in the next few weeks arguing against the concept of student loans.

Vice-President Elect for Education, Andy Pearman, explained: "Loans don't do anything to extend access to education, in fact they restrict it. Those who benefit most from grants are those from working class backgrounds; they would be deterred from entering higher education by the fact that they might not be able to repay the loans taken out."

ICWA

The elections for next year's ICWA Committee were held on Tuesday 13th May and resulted in the following people being elected:

President - Sandra O'Sullivan (Physics 2)

Hon Sec - Sheila Cox (Geology 1)
Deputy President - Jill Hanson (Met and Mat Sci 2)

Ents Officers - Jenny Egall (Civ Eng 1) and Eleanor Linton (Life Sci 1)
Publicity Officer - Ann Edmunds (Life Sci 1)

City and Guilds Rep - Anna Binton (CCD 1)

Unfortunately Sandra, as seen in FELIX, has stated that she is not prepared to actually do anything for ICWA. The rest of the committee is very keen however, and together we have decided to hold a meeting on Tuesday 17th June at 12:00 in the ICWA Lounge to discuss the President-Elect's proposals for ICWA and plans that the incoming committee as a whole have for next session. Your ideas will be most welcome. Good Luck with any exams.

M Clark and the ICWA Committee (1979-80 and 1980-81).

Red Cross Week May 4th — 10th

Thanks to all in College who helped by collecting or donating during this week. A total of £4,450 was raised by Kensington and Chelsea Centre, which includes the College Detachment and Members Group, for London Branch funds. This is an increase on previous years' totals.

London Student

The future of the newspaper London Student is under threat as a result of financial pressures on its publishers, the University of London Union.

Each copy of the paper costs about 7.5p to produce. Advertising revenue is not large enough to cover staff, printing and running costs.

Unless College unions enter a subscription scheme currently being launched for next year, it is unlikely that ULU will be able to continue to finance the deficit and the paper will fold.

The scheme asks colleges to pay 2.5 per copy and distribute the paper free to members. 2,000 copies have already been ordered, and several college unions have also given verbal commitments to join the scheme. However, com-

pleted order forms are needed before the end of this term if the paper's future is to be secured.

London Student is the only London-wide paper written and run by students. Twenty thousand copies are distributed each week in term time to colleges, polytechnics and further and higher education colleges, many of which are isolated on the fringes of greater London.

Deborah Perkin, Vice President (Services) at ULU, said in a document sent to college unions that if London Student ceased to exist it would be "a sad day for London students, and a tragedy for London student unions".

"THE FIRST EPIC JCR PARTY"

Jack Kroll, Newsweek Magazine



ICU EXEC PARTY.

STARRING

FOUR DISCOS IN THE JCR

WITH

FREE FOOD, BAR TILL 2AM

An Imperial College Union Production 1980.

**FROM 8:30pm ON THURSDAY
19th JUNE.
LAST THURSDAY OF TERM.**

Entry by bottle and Union Card.

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FELIX College of Photography and Spelling



Examination 1980 (Answers on page 10)

Cp 1980

1. Theirs to reason why

Three third year students, applying for a job, seem equal in all pertinent attributes, so the prospective employer, also an intelligent man sets a simple problem for them. The job, he says, will go to the first applicant to solve it. A mark is placed on each man's forehead. The three are told that each has either a black mark or a white mark and each is to raise his hand if he sees a black mark on the forehead of either of the other two. The first one to tell what colour he has and how he arrived at his answer will get the job. Each man raises his hand, and after a few seconds one man comes up with the answer. What colour is his mark, and how did he figure it out?

2. Barnight

A student organising an inter-CCU barnight manages to obtain seven barrels full of beer, seven barrels half full of beer, and seven empty barrels. Not wishing to offend any CCU he decides that Mines, RCS and Guilds shall be given the same number of full, half-full and empty barrels. Can his wish be carried out? If so, how?

3. Ages

A nosey male student asks a landlady how many girls live in her house and what their ages are. The woman tells him that her three daughters live in the house, that the product of their ages is thirty-six, and that the sum of their ages is the number of the house next door. The student goes next door and looks at the number of the house. When he returns he tells the woman that the information that she gave him is not sufficient, whereupon the woman tells him, "My eldest daughter is sleeping upstairs." The student thanks her and promptly figures out the daughter's ages. What are they and how does he know?

4. Bino Meal

Find the product of the following:
 $(x - a)(x - b)(x - c) \dots (x - z)$

5. Labels

Three boxes are labelled "Rag sweatshirts", "Horrids T-shirts" and "Rag sweatshirts and Horrids T-shirts." Each label is incorrect. You may select only one garment from only one box. (no feeling around or peeking permitted.) How can you label each box correctly?

6. Truth

A FELIX newspaper reporter comes into Beit Quad and does not know which way to go to reach a fire on the roof of Botany. There are two men in the Quad, one of whom always lies while the other always tells the truth. The reporter does not know which is which. He may ask one of the men only one question to find his way. What is his question and which man does he ask?

7. Slowly does it

An aged and, it appears, somewhat eccentric ICU President wants to pass his most treasured possession, a Norton motorbike, on to one of his two friends (both eccentric motorbike owners). He decrees that a bike race shall be held and that the friend who owns the slower bike shall have the Norton. The friends, each fearing that the other will cheat by having his bike go less fast than it is capable of, ask a wise professor's advice. With only two words the wise Prof insures that the race will be fair. What does he say?

8. Letter maths

Supply a digit for each letter so that the equation is correct. A given letter always represents the same digit:

$$\begin{array}{r} A B C D E \\ \times 4 \\ \hline E D C B A \end{array}$$

9. Camels

A middle Eastern potentate died, leaving 17 camels. His will specified that they be divided among his three sons as follows:

- 1/2 to the oldest son
- 1/3 to the second son
- 1/9 to the youngest son

The three sons were puzzling over how this could be done when a wise man happened to ride by on a camel. How did the wise man solve their problem?

10. Hardware

A man goes into a hardware store to buy something for his house. He asks the assistant the price, and she replies, "The price of one is 24p, the price of thirty is 48p, and the price of a hundred and forty-four is 72p." What does the man want to buy?

FELIX College of Photography and Spelling



This is to certify that

.....
has passed

grade

MUHAMMAD IN THE BIBLE?

As Christians we feel that we must make a public reply to the pamphlet entitled "Muhammad In The Bible" that has been circulated in IC over the past few months. While not wanting to enter into a technical textual and historical debate just for the sake of it, nonetheless, it is very important to examine the question of whether the New Testament text is reliable. This article briefly does this and also examines the inconsistencies that appear to exist in the author's method of argument. By way of reminder the message presented by the author of the pamphlet is that the "Spirit of truth" (or "Comforter") which Jesus talks about in John chapters 14 and 16 does not refer to the unseen Holy Spirit of God but the man Muhammad.

In making our reply may we begin by considering two statements made by the author. The first refers to the author of John's Gospel (the fourth book in the New Testament) as "John — an unknown writer in the second century of the Christian era". The second states that "some hasty editor was not satisfied with the expression "Spirit of truth", or did not understand it, and assumed that this must be the same as the Holy Spirit . . . Such words are found nowhere else and are obviously an addition to the text." These and other hypothetical arguments (we use the term hypothetical in the strict sense of the word) are used to question the accuracy of the record of Jesus' words, from which point the author goes on to suggest what Jesus really said. So he appears to rely on the reader of his article unquestioningly accepting the commonly held, but incorrect, view that the New Testament documents have been proved unreliable. Many believe that they were written a couple of centuries after the time of Christ and have been translated and copied out so many times since then that vast numbers of words and sentences must have altered, been missed out or even added. But when facts are faced such views do not stand up. Let's for example examine the Gospel of John which is certainly not the earliest piece of Christian writing in the New Testament (see reference 1).

The earliest fragment of the Gospel now in existence is dated at about AD125 and it is generally accepted that the Gospel itself was written between AD70—90 ie 40—60 years after the crucifixion of Jesus. There is also strong textual and traditional evidence that the author was John the disciple of Jesus, not an unknown writer and certainly not a second century writer. The other three Gospels are also eyewitness accounts of the life of Christ. As one would expect the quantity of New Testament manuscripts increases as we move into the second, third and fourth centuries AD. By this time we have literally hundreds of copies in a dozen languages: the 5th century codex Alexandrinus and the 4th century codex Sinaiticus (complete New Testament texts) both reside in London in the British Museum with many other and earlier New Testament manuscripts.

Also in existence is a complete set of the Four Gospels each in papyrus book form and dated before AD200. Admittedly, there are variations between manuscripts, about 157 in the four New Testament Gospels. The vast majority are very minor and of the kind seen in Matthew chapter 3 verse 11 and Luke chapter 3 verse 16 where John the Baptist is said to have baptised "with water" while some manuscripts read "in water". What should be recognised is that not a single point of Christian belief hangs on a disputed reading.

The sort of time scales mentioned above may still seem rather long, but Christian manuscript tradition is in fact much stronger for the New Testament Gospels than for any other ancient book. The text of Caesar's book "Gallic Wars" for example is based on a single ninth century manuscript, ie a 900 year gap separates the original work from the earliest copy now available. One final point to mention here, before leaving the matter of New Testament reliability, is the way archaeology has shed a great deal of light on the Gospels and the book of the Acts of the Apostles. Again and again archaeology has vindicated their reliability. Let's go back to John's Gospel for an example. In chapter 19 verse 13 we are told that Jesus was tried before Pilate at a place called The Pavement (Gabbatha in Hebrew). Nobody knew anything about such a pavement and it looked like John was adding dramatic atmosphere to the simple tale of Christ's trial until French archaeologist Père Vincent dug it up in the 1930s. It measured fifty yards square and can be seen in the city today. For a much deeper study of the reliability of the New Testament see references 1, 2 and 3.

Having very briefly outlined the fact that the Gospels are early and reliable (something that even critical scholars now accept in the light of so much evidence) we now turn to examine the author's method of argument a little closer. On reading the pamphlet carefully it becomes clear that his arguments are based on assumed errors in the text for which he admits himself there is no positive textual evidence available (paragraph 4 sentence 6). However, for a moment let us assume that the New Testament is unreliable and see what the implications are.

Using a scientific analogy the author is saying that he has got a bad set of data but he can correct it (without having external evidence to give his corrections any degree of authority), and the corrected data fits in with his theory and so proves it to be true. But the New Testament is reliable and the authors textual theory goes very much against the great weight of "experimental" evidence derived from scholarly objective Biblical research. Indeed if John chapters 14 and 16 are read in context with both the Old and New Testaments there can be no mistaking the message that the Holy Spirit of God was to and did begin a new type of work among men.

In conclusion may we say that God's message to man in the Bible and supremely through the life, death by crucifixion and resurrection of Jesus Christ is very clear. That message speaks first of the enormous DIGNITY of man's creation in the image of God (Genesis 1v26, Psalm 8v4, 5). It also speaks of the total DEPRAVITY of human nature (Romans 3v23) caused by man's rebellion against his Creator and the reality of this Sin and resulting separation from God ending in death (Romans 6v23). Finally it speaks of the DESTINY of man which is the fearful prospect of death and God's judgement (Hebrews 9v27, 28). It is at this point that God's message of hope through Jesus Christ comes in: God himself in Christ has dealt with man's Sin and made a way for man to return to Him. At this point Christians rightly tend to employ certain pictures to explain the work that Christ accomplished by dying on a Roman Gallows (eg paying the ransom required that man might be set free). Whether or not you find the pictures helpful the reality is that Christ bore the consequences of our sins (1 Peter 2v24) and to prove his victory over Sin and Death he rose from death never to die again (1 Corinthians 15v3, 8). God freely offers forgiveness through Christ and new life through the indwelling of his Holy Spirit for those who acknowledge their need (1 John 1v8—10).

The personal claims of Jesus Christ are enormous and his claims on us as individuals are equally enormous. No doubt many people in the past and today try to avoid these claims by running away from the facts, but the truth is that about 2000 years ago a Jewish carpenter from a small town in the Middle East made these claims and substantiated them by his victory over the grave.

References

1. *The New Testament Documents, Are they Reliable?* by F F Bruce, published by IVP.
The Rylands professor Biblical Criticism at Manchester University considers this important question.
2. *Archaeology of the New Testament* by R K Harrison, published by Hodder.
Professor Harrison writes with the general reader in mind, but with notes and bibliography for the specialist.
3. *Christianity; the Witness of History* by J N D Anderson, published by Tyndale Press.
4. *The Evidence For The Resurrection* by J N D Anderson, published by IVP.
A London University Law Professor sifts the various evidences about Jesus and his resurrection.
5. *Basic Christianity* by J W R Stott, published by IVP.
A succinct introduction to Biblical teaching.

M J Brooker and H M Tsai

SPYING

Several junior trainee officers, hoping to become successful agents of the CIA, listen to their lecturer outlining the basics of intelligence gathering. "You can learn more about a country's military potential by a careful study of the many specialised journals devoted to defense subjects than a clandestine agent could discover in years."

Reading more than 20,000 pieces of literature every month, is one of the tasks of the CIA at their headquarters in Langley, Virginia. Most intelligence comes from "alternative means" rather than spying. Soviet intelligence officers are avid readers of Western publications of all kinds. About eighty percent of most countries' intelligence requirements can be met from such white (open or overt) sources. A great deal can be learned from reading and assessing newspapers.

The remaining twenty percent of intelligence material can be learned only by black (undercover or covert) methods, and this almost invariably means by espionage. This material falls into four main categories: plans, processes, politics and pieces.

Plans include not only the drawing board type of plans that were once the number one item on the shopping list, but also plans in the sense of "intentions".

Processes include much of the material currently given a high priority, such as technological developments and industrial secrets.

Politics covers all internal and external political activity, from the jockeying for power and position within a government to that government's relations with other countries.

Pieces is a term derived from an analogy with jigsaw puzzles. In a jigsaw puzzle it may be impossible to see the whole picture if some pieces are missing, so pieces are any items of information still needed to assess or understand other information already in hand.



Colin Palmer



If you've read today's National papers - you'll have heard of Andrew Boyle and his book that unmasked Anthony Blunt. How do students become spies? This article gives a brief outline.

Photo: A small tape recorder that fits into a cigarette packet. Just one of the tools of a spy.

One of the three main routes into espionage work is from a university. In the United States the intelligence agencies have their friends on the campus, often key professors who have connections with the secret world. As in the USA, the British universities, in particular Oxford and Cambridge, provide many recruits to the British SIS.

The screening process for the CIA is tough and it is an exceptional year when more than 100 college graduates are recruited into the agency. It has been estimated that out of 1,000 potential recruits all from the top quarter of their classes, about 800 are screened out immediately because of an unfavourable background or some lack in their educational standards. The remaining 200, who go through security checks and personality assessment, are eventually reduced to about 90. Of the 110 who are eliminated at this stage, about 70 are failed because of personal defects, such as drinking, talking too much, or homosexuality, and about 40 dropped from consideration for serious security reasons.

Of the 90 who will be offered employment, probably about 10 will finally decide not to take up the offer. The remaining 80 will be enrolled in the junior officer training program.

Although intelligence work is supposed to be exciting, the British recruit will find that after initial training that although the work sounds exciting, in fact a great deal of it is tedious, boring and bureaucratic.

Harry Gold, the American Communist who as a go-between for Klaus Fuchs, told his FBI interrogators when he was caught: "There is difficulty in raising money for trips. The weary hours of waiting on street corners in strange towns where I had no business to be. The killing of time in cheap movies and the lies I had to tell at home and to my friends to explain my supposed whereabouts. Mom was certain I was carrying on a series of clandestine love affairs. It was drudgery. Anyone who has an idea that this work is glamorous and exciting is very wrong indeed. Nothing could have been more dreary."

K.
SUPERAG
1979-1980

GRAND RAG COLLECTION

— help smash the £20,000 barrier
SATURDAY 14th JUNE

meet at CCU Offices from 9:30am
COLLECTORS' PARTY

afterwards in the Union Concert Hall

FREE entry with your collectors licence
(50p to lazy people who haven't)

WE NEED YOUR HELP!

— remember just half an hour of your time
will help a child hear.

Haldane Library Help Wanted

The Haldane Library requires help from next term (term-time only) for counter work, shelving and some typing. Hours by arrangement. About £1.50 per hour. Applications to Richard Williams, Haldane Librarian.

Cleaner/Coordinators Required, Tizard Hall

Two student cleaner/coordinators are required from 23rd June to 20th September to act as leaders to a term of student cleaners, taking full responsibility at weekends in the Housekeeper's absence. Hours: 9:00am to 1:00pm. Six day week (with one day off in the week). £35.20 per week (deduction for accommodation if required). Apply to the Housekeeper, Tizard Hall, Int 3361 or SAC Office, Southside, Int 3869.

FOR SALE

Honda 125, MOT, Tax, P reg,
17,000 miles, £1.50. Contact J Day,
Biochem PG, Room 305, Int 3514.

WANTED

If anyone has two tickets for the Pink Floyd gig at Earl's Court in August and would like to swap them for two tickets for the performance on the last night (9th) then get in touch with Mike Weiner, CCD2 pretty damn quick.

LOST

After Ten Tors expedition, an orange flysheet and sundry poles. Anyone who knows where they are please contact Tom Owen, Physics 1 to arrange liquid reward.

ACCOMMODATION FOR NEXT YEAR

As the examinations draw to an end, thoughts inevitably turn to next session and the thorny problem of finding accommodation.

Ideally, it would be nice to get fixed up with something this term so that you don't have to worry about it over the vacation. Unfortunately this is not a very easy thing to achieve as most landlords are not interested in giving firm promises for the future which leaves the rather unattractive alternative of finding a place now and paying for it over the summer.

If you do want to book something now for next term without having to pay for it over the summer, the best place to inquire is the UL Accommodation Office at 8 Princes Gardens.

The Welfare Centre has a few bedsits available which can be booked in advance and we are hoping to get some more in the near future.

Agencies, newspapers and noticeboards are not much use for this purpose as they tend to deal with current vacancies rather than future ones.

If you don't manage to find anything this term, then it is probably best to forget all about it until September when it is financially viable to take on a current vacancy even if you don't actually need it until the beginning of term.

The accommodation market is highly competitive at that time of the year since there is an enormous influx of students. This means that the earlier you start looking in September, the better.

Most people would probably prefer to live in a flat than in a bedsit and one of the snags that flat hunters tend to come across in September is that landlords are reluctant to let a flat unless they can interview all the prospective sharers before granting a tenancy. Since it is quite frequent for one or more members, of a group looking for a flat, to be away on holiday or on a field trip at this time of year, difficulty can arise and so it is a point worth bearing in mind when you are planning your strategy for finding a flat.

If you are going to find it difficult to come down to London early on in September to start looking, you can always ring the Welfare Centre for addresses and then try and fix an appointment with the landlady for a time when it is convenient to see the place.

When you do start looking at places, one of the problems that arises is if you are offered a place which does not come up to your expectations and you have to decide whether or not to take it or risk ending up in something worse.

If you don't have any experience of living in the private rented sector, it might be an idea to try and look at some places this term, eg those occupied by friends or you could even have a look at places that are being offered by the various accommodation sources at present. This will give you an idea of the standards and prices to expect — bearing in mind that there is likely to be some increase in prices by the beginning of the next term.

If you are thinking of coming to look for accommodation in September, there should be some temporary accommodation available in the Halls and then in the Union Crash Pad. Details of these schemes are not yet available, but soon should be, so keep an eye on FELIX or check with the Union Office before coming down to look.

In September, possible sources of accommodation will be:

University of London Accommodation Centre (8 Princes Gardens)

This office is mainly concerned with finding accommodation for freshers during this period and so they won't have much to offer non-freshers. The best time to use them is now when they will have details of places that you can book in advance.

Welfare Centre (3rd floor, Union Building)

Flat Agencies

These usually charge one to two weeks rent for finding you a place. They also tend to deal with the more expensive accommodation. A list of agencies which have been recommended by various people can be obtained from the Welfare Centre.

Newspapers

These do provide a source of accommodation but the evening papers are very widely read and people queue in Fleet Street to get the first edition. As a result places advertised go very quickly and so, although worth trying, this approach is often more frustrating than productive. Local papers — eg, the Kensington and Chelsea Post are read by fewer people, but contain correspondingly fewer accommodation advertisements.

Noticeboards

A lot of sweet shops, etc, have noticeboards with accommodation vacancies. They tend to be past history by the time you get to look at them but some have dates scribbled on them which you can use to select the most recent ones.

All in all, accommodation hunting can be pretty hard work but perseverance is usually rewarded. If you find yourself in a position where you have to take something which doesn't suit you, don't despair. As long as the arrangement with the landlord doesn't tie you to staying on there for a long time, you can sit it out until the rush dies down and then start looking again.

If you have any worries about finding accommodation, you can always come up to the Welfare Centre for a chat about it.

VACATION MONEY

If you can't get a job during the vacation (incidentally the Welfare Centre has a list of vacation jobs) it is worth remembering that you can claim supplementary benefit, which starts at £16.35 per week if you are living at home and goes up if you are paying rent. You can also claim unemployment benefit if you have sufficient National Insurance contributions and the new contribution conditions that have been imposed on students do not apply during the summer.

LUGGAGE STORE

For those of you who are going to find it difficult to take all your stuff away with you at the end of the term, there will be a luggage store in the Union Building. For further details contact the Welfare Centre.

Michael Arthur

Don't Bank with Apartheid

says the Anti-Apartheid Group at IC following last week's Barclays advert

The views expressed in this article are not necessarily those of FELIX or the Editor of FELIX
- Editorial comment page 10

Barclays And South Africa

Barclays has traditionally been attacked for its support for South Africa on government projects.

The latest major such venture is its investment in Sasol the South African State Oil Corporation, in which Barclays National has a £10million holding.

The South African government has frantically been investing in oil from coal production in order to cushion itself against any future oil embargo. Barclays not only assisted in providing the financing of this project but also handled the selling of shares in Sasol on the Johannesburg stock exchange.

The call for an oil embargo is an essential step in bringing down the apartheid regime. It should also be remembered that fuel is vital for the South African 'defence' forces continually used to repress any opposition movement against apartheid. Barclays should be exposed for fuelling apartheid.

Barclays Bank Ltd has a 60% share of its subsidiary Barclays National in South Africa. It is therefore capable of stopping this support for the regime in South Africa.

The other argument against Barclays is that it is the biggest bank in South Africa.

Although it claims a progressive image and doubtless could substantiate its claim to abide by the EEC's Code of Conduct its actual employment statistics expose clearly the lie that it can in any way be challenging the apartheid system.

In South Africa there are employed 2,480 non-white clerical staff as against 13,000 whites. Hardly an example of equality of opportunity in a country with exactly reversed population proportions!

Sir Anthony Tuke, Chairman of Barclays, at their recent AGM justified little being done to challenge apartheid by saying that the bank had to work within the law. That also means that the bank is subject to racist employment laws and one can only doubt whether the bank seriously concerns itself with this problem when as it readily admits its chief concern is to protect its investments and profit margins, not to worry about 'political issues'. Apartheid yields big profits by racist exploitation and repression of the majority of the population. In such a situation passive acceptance of 'the law' is no different from active support for apartheid.

Why Pick On Barclays In Particular? -

1. It is one of three British based banks involved in the Sasol financing (the others are Standard Chartered and Hill Samuel) and of those is the largest shareholder.
2. Barclays National, the South African subsidiary, is the largest bank in South Africa and therefore operates under racist employment policies and in many ways acts to prop up the apartheid system.

What Can You Do?

1. Don't bank with Barclays.
 2. Write a letter to the Union Exec/Council calling for no more adverts to be placed by Barclays in Union publications.
 3. Support IC Anti-Apartheid Group. (Co-ordination Kevin Courtney, Physics 3).
- Anti-Apartheid Group

LETTERS

Dear Colin

I would like to make public my grievances regarding the conduct of some of the staff behind Stan's Bar, Southside. Apart from being unhelpful, unfriendly and arrogant, things of which many people are aware, they are also offensive and foul-tongued. This I found to my cost on Saturday night last when I asked for some change for the video-game in Stan's Bar. The immediate reaction from one of the barmen was: "F--k off, this isn't a f-king bank".

This was not an isolated incident. When another customer asked for a packet of peanuts he received an equally witty reply. ("Piss off, this isn't a f-king sweet-shop.")

Other people were given typically gruff and unpleasant service.

Surprisingly, when a customer who had been waiting for about five minutes for service, muttered "S--t" under his breath, he was told to mind his language by the other barman.

Is it necessary to employ such unpleasant people as bar-staff? Just because we are students I do not understand why we should be treated quite so deplorably.

I am looking forward to a reply from whoever is responsible for employing the bar-staff at Stan's. Yours etc,
Nick Taube
Physics One

Dear Colin

'How nice to be in England, now that summer's here!' With all the warm weather hitting London lately, may I comment to your columns how good I feel. Isn't it lovely to walk across the Union Quad and feel the soft springy stone between one's toes. The way the calm luxuriant flagstones reflect their heat is pure ecstasy. Oh boy! Am I glad that our predecessors saw fit to pave over all that hard unyielding green grass! What forethought! Rue the day when we have to revert to nature.

Sean O'Boyle

EDITORIAL

Exam Answers

1. Since all three applicants raised their hands, there are two possibilities: two black and a white or three black. If therefore, there were a white mark on any forehead, two students would see one black and one white and would instantly deduce that the third mark must be black. Since this instant solution did not occur, each of the three students saw two black marks. Therefore all were black, including the mark of the successful applicant.
2. O.K. so you came up with an easy solution - there are several. Pour four of the half-full barrels together to make two more full ones. Now there are nine full barrels, three half-full barrels, and nine empty barrels. All can be divided by three.
3. The landlady has a nine year old daughter and two-year-old twins.
4. One of the terms is $(x - x)$ therefore the answer is zero.
5. Pick a garment out of the "Rag sweatshirts and Horrids T-shirt box". You then know which label should be fixed to that box. As all the labels were initially incorrect then the other two labels can be simply exchanged.
6. The reporter should ask either man, "If I were to ask you if this is the way I should go, would you say yes?"
7. "Switch bikes"
8. A is 2, B is 1, C is 9, D is 7, E is 8.

9. He added his own camel making the division easy. 18/2 is 9, 18/3 is 6, 18/9 is 2. Since the total is 17, the wise man was then able to take back his own camel and ride on.

10. House numbers.

Barclays

At the moment there is no Union policy covering the placing of Barclays adverts in Union publications. However, I have printed an article from the Anti-Apartheid Group at IC on page 9. Let's have some letters on this and other subjects for next week's FELIX.

Review

With a bit of luck, if you're still around next week you'll be able to pick up a FELIX containing a review of the year....

This week I have included a complete do-it-yourself exam package complete with certificate. I let you judge which grade you should be awarded. At least you'll leave Imperial with one paper qualification!

Thanks

To Tim, Maz and Ian also to the hardworking Marie-Thérèse Weech who seems to be able to contentedly fall asleep in the FELIX office during the day! Even when we're panicking to beat deadlines and trying to induce people to write articles.

Colin Palmer
FELIX Editor

A WARNING

The current, disgracefully irresponsible behaviour of residents in Southside is likely to lead to a serious breakdown of relations with Mews residents.

The hurling of objects out of Hall windows is both dangerous and annoying, and if these objects are bottles then the action becomes potentially homicidal.

Whether or not the current spate of bottles emerges from Southside, the Halls only draw suspicion on themselves by the continued shower of weighted paper darts, carrier bags filled with water, cans, etc, on the mews side of the Halls.

I view the allegations of bottle throwing even more seriously and any students or guests of student residents can expect no help from me if they were to be asked to leave College, and indeed, I would support the College line on this issue.

If this practice, and that of abusing persons in the Mews, continues, a private detective is going to be hired with the aim of amassing evidence and prosecuting individuals. It is therefore very important that those responsible persons who live in Halls clamp down on the lunatic fringe and prevent this happening.

CHRIS FOX
President

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IC Photoshop END OF YEAR SALE

TUESDAY 10th JUNE

12:30 - 1:30

OLD DARKROOM

Beit Quad

★ ★ ★ ★ ★

Colour Film

Kodacolor II	C-110-20 (100 ASA Instamatic)	£1.20
Kodacolor 400	CG-110-20 (400 ASA Instamatic)	£1.35
Kodacolor II	C-135-24	£1.30
Kodacolor II	C-135-36	£1.70
Kodacolor 400	CG-135-24	£1.60
Kodacolor 400	CG-135-36	£2.10
Ektachrome 200	ED-135-36 (200 ASA Slide)	£2.90
Ektachrome 200	EL-135-36 (400 ASA Slide)	£3.40
Kodachrome 25	KM-135-36 (Process Paid)	£3.90
Kodachrome 64	KR-135-36 (Process Paid)	£3.90

★ ★ ★ ★ ★

B/W Film

Ilford HP 36 exp (400 ASA B/W)	£1.25
Ilford HP 5 metres Bulk Loading	£2.30
Ilford FP 5 metres Bulk Loading	£2.30
Kodak TRI-X PAN 8.4 metres	£4.10
Kodak TRI-X PAN 36 exp	£1.35

★ ★ ★ ★ ★

Photographic Paper, Etc

Cibachrome 10" x 8" 10 sheets	£8.00
Cibachrome 2 litre process kit	£6.70
Ilfospeed Glossy Med Wt 10" x 8"	£4.70
Grade 3 & 5 25 sheets	

!!! IMPORTANT !!!

As everyone knows, good accommodation is very hard to come by and many IC students are doomed to spend a period of misery in expensive squalor.

If you are living in reasonable accommodation at present and are expecting to move out of it for good in the near future, it would be a great pity if the opportunity for an IC student to live there next year was lost.

Some students, mainly PGs and those working in London over the summer, are looking for accommodation from the end of this term.

It would be very much appreciated, both by the Union and by students who are and will be facing the problems of finding somewhere to live, if you could help in one or more of the following ways.

- 1) Come to the Welfare Centre (third floor, Union Building) and give us details of your accommodation.
- 2) Jot down the details on the back of this sheet and send it to the Union Office via the Internal Mail.
- 3) Detach the bit at the bottom of this sheet and give it to your landlord/lady.

Prompt action could save a fellow student from a lot of anguish.

Thank you for your help.

Michael Arthur
Welfare Adviser

PS: If you found your accommodation through the UL Accommodation Office in Princes Gardens, you needn't do anything as they will already have contacted your landlord/lady.

Imperial College Union
ACCOMMODATION OFFICE
Telephone 589-5111 ext 1042/3

Freepost Address:

Michael Arthur
Imperial College Union
FREEPOST
London
SW7 2BR

Please give information for the following.

Brief details of accommodation (ie, whether bedsit or flat, number of rooms, etc)

.....
.....

Does the accommodation have cooking facilities?

Are any meals provided?

In which area is the accommodation?

How much is the rent?

Does this include heating and lighting?

Landlord/lady's name

Address

..... phone number.....

Any other information about the accomodation

.....
.....
.....

Imperial College Union
ACCOMMODATION OFFICE
Telephone 589-5111 ext 10323

Freepost Address:
Michael Arthur
Imperial College Union
ERRPOST
London
SW7 2BR