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FELIX



The Student Newspaper of Imperial College

No1015-Y 14DEC94

Beit Fight Probed

BY ANDREW SMITH

Mystery still surrounds the events which led to four ICU stewards requiring hospital treatment on Saturday 26th November. The phone call procedures made to the police are being scrutinised following evidence that the police were not made known of the urgency of the situation.

Following the fray in Beit Quad, college security insist that two calls were made requesting assistance, at 2.26am and 2.55am. Whilst Scotland Yard's Press Bureau have admitted that the first call was received, they dispute the statement of the security guard placing the call who has said that violent action taking place was reported. The police have the call recorded as only reporting a theft, which had already been reported by the victim and hence they had not responded immediately to the call.

Mr Keith Reynolds, Head of Security of Imperial College, has agreed that in communication between college security and police that there may have been a 'bit of confusion' on 'both sides of the fence'. While defending the actions of security he admitted that 'this one may have got away from us a bit', but insisted that he would try his best to make sure that 'nothing like this ever

happens again.'

Since the event was last reported, (FELIX 1014), explanations have become available as to why college security did not attempt to restrain the alleged assailants of the Union Stewards. One of the officers present at the time has explained that as security were under the impression that one of the assailants was a civil engineering student, he could easily be pursued through college procedures. In addition, since the situation was so tense that any intervention by security could have led to further fighting, it was decided not to pursue the attackers at the time.

With departmental and college photographs as yet not leading to any successful identifications by those Union Stewards involved in the incident, the offenders remain at large. While confirming that Union records of people signed in that night were not any help, some leaving only first names and others being completely indecipherable, Terry Briley, Deputy head of security, has said that it 'would of course help if accurate records were kept'. College security have once again appealed for anyone with any knowledge as to the identity of the perpetrators of the assault to come forward in total confidentiality.



Photo: Liz Caddy

Lucy Chothia, Imperial College Union President, was hospitalised last week when her jaw locked as she yawned, writes Rachel Walters. Lucy spent 2 days in Charing Cross hospital so that she could shut her mouth again. She said that she was 'just walking to the bus stop with an old schoolfriend' when she yawned so widely that her jaw clicked out of place leaving her mouth stuck open. Explaining the incident, the ICU President admitted that she had a weak jaw, and that in fact, she had the problem as a 15 year old. Lucy denied that boredom may have been a factor, but conceded that she has been 'feeling quite tired recently'.

Millionaire Miner

BY RACHEL WALTERS

Hopes for the prospects of Imperial graduates were raised this week with the news that a Royal School of Mines alumnus earns £14 million a year.

Kaveh Alamouti, 39, is in his fourth year at the Tokai Bank using quantum theory to work the stock market.

He followed his undergraduate degree in mineral technology with a masters at the London Business School (LBS), but stresses that Imperial gave him the background mathematical skills that make him so successful today. Speaking to FELIX, Mr Alamouti said: "Some of the things at BSc level at

(continued on page 3)

STOP!
 Have you
 picked up your
 supplement?
 (FELIX 1015-X)

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News Review
Autumn 1994

BY LYNN BRAVEY



October

Leaks, lungs and leagues were amongst the highlights of the news. Term began with the usual hedonism but the revelries of some upset college catering staff. Mergers were proposed and Imperial College looked set to swell in size. The threat of the college conspiring with other Universities to form a break-away group caused much discussion.

FELIX 1006

Panic! Da Vinci's Bar flooded and there were fears that it would be unable to open for Freshers' Week. But with an impressive feat of organisation the damage was completely repaired within 24 hours. Freshers' Week was a typically drunken affair, the only major incident being a stage charge by over zealous students. Meanwhile St Mary's Hospital Medical School was the focus of a financial scandal. Cyril D'Souza, a cashier at the Medical School, was alleged to have stolen over £650,000 and the case received national news coverage. Back at South Kensington, commitment to clubs and societies is cited as one of the reasons for academic failure. The article prompted an indignant response from the club highlighted. And Imperial College's compulsive equestrianites were jumping for joy at the announcement of a new prize for a scholarship in horse racing.

FELIX 1007

It was announced that Imperial College was to acquire a new organ in the form of the National Heart and Lung institute. The merger, due to go ahead within a year, was seen as the first phase of the plan to make Imperial a medical 'super-school'. Great interest was taken in the revelation that Imperial was one of ten universities possibly planning to form a 'superleague'. On a lighter note, the Three Handled Pot belonging to the Royal College of Science Union was stolen in a suspected mascotry raid. As the two pint pewter pot is not a violate mascot it was requested that it be returned. The pot was later located in the Royal School of Mines Union office. Rag performed their annual tiddlywinking efforts along Oxford Street and raised nearly £400 for Action Aid.

FELIX 1008

It was revealed that during summer a hacker had broken into Imperial College's computer network and from there caused disruption to the Finnish University network. The hacker, from the United States, managed to gain access to Imperial's computers via the Internet. The Royal College of Science Union faced eviction following the plans for a new Biomedical Centre at Imperial. Others saw their property



Bomb: Police close roads in potentially explosive drama

Reggie Snatched

BY ANDY SINHARAY

"Reggie Snatched by RCS Mascotry in surprise early morning raid" yelled the headline (complete with mis-spelling) of the Christmas edition of the Royal College of Science Union's newsletter, 'Broadsheet'. The Royal College of Science Union has removed 'Reggie', a 600lbs stone lion, from the Kensington campus of King's College.

A RCSU source said that the raid had taken place on Thursday with remarkable ease, the location having been known in advance. When asked if they had been tipped-off by KCL students, FELIX was told: "It wasn't really a tip-off... the information was conned out of them."

Apparently, RCS mascoters were able to get KCL students to unwittingly divulge the location of the stone mascot, which was 'liberated' from KCL premises on Thursday morning, at around 8.00am. RCS students, posing as stonemasons who had come to repair the lion, were let in by security staff who took them to be legitimate after they had displayed an calling card, an invoice and an imitation letter apparently signed by the KCLSU president. "We walked away with it," said the source. "We were all back in time for nine o'clock

lectures...six people were required to carry [Reggie] and a trolley came in handy."

FELIX has been told that Reggie has been moved to a 'safehouse', and that a ransom demand has been made to KCL: Reggie will be returned, says the RCSU, when KCL have sold 1000 copies of the IC Rag Mag, which has been banned from King's.

According to King's College, Reggie had been found missing later that Thursday Morning by the Manager at the Bar. "Imperial rung us and said they had [taken Reggie]", said Tara Jefferson, Vice President of the KCLSU, "It wasn't a very impressive raid, I've seen more ingenuity...it's quite well known that Reggie was needing repairing." However, she admitted that the KCL security staff had seen no identification from the Imperial students that morning and had simply taken them at face value.

When asked about the ransom she said: "As far as we're concerned we've had no ransom demands...they seem to have lost the plot of mascotry." She was uncertain over whether or not there would be any mascotry 'reprisals', saying there had been little interest in Mascotry at KCL. "King's aren't really into that this year," she commented.

photo: Matt Parkes

Museum Drama Halts Traffic

BY MATT PARKES

Explosives experts closed off Exhibition Road last Wednesday after a chemical on display in the Science Museum was found to be in danger of exploding.

At 6.30pm, shortly after closing time, staff noticed that a container on display was deformed and heating up. After closer inspection by a museum expert, it was realised that it was in danger of exploding. The emergency services were called and by 7.00pm around ten police vehicles had cordoned the area off. Four fire crews, including dangerous substances officers, were at the scene within minutes.

Assistant Divisional Officer Paul Turner, in charge of the operation, arrived in the Fire Brigade 'Incident Control Vehicle'. "At first we were there purely as a precautionary measure", he said. "Fire Brigade and Police explosives officers entered the building wearing blast-proof clothing and breathing apparatus, to assess the danger. They found a bucket sized spherical container full of a powdered substance that was above a safe temperature."

He was unable to disclose the name of the chemical involved. However, a reliable

source has indicated that it was a substance called sodium azide. A 'Hazards in the Chemistry Laboratory' manual states that it 'decomposes somewhat explosively if heated above its melting point'. If water is added when it is above a certain temperature, it will also explode. It is highly toxic, poisonous if taken by mouth or breathed in, and causes blistering when in contact with skin.

"It was decided that dilution in water was still possible", continued ADO Turner. Dangerous substances officers proceeded to decontaminate the area and by 8.30pm Exhibition Road was reopened to traffic and pedestrians.

At the scene, the museum Curator was unwilling to comment on the incident and it was the next day before a statement was issued. Rachael Edmonds, Press Officer for the museum, disclosed that the chemical had been on display in the 'Glass Gallery'. "There are a number of chemicals such as this on display", she said. "They are examined regularly, but on this occasion the substance had begun to degrade. It was disposed of safely. The emergency services were there just in case."

(Millionaire Miner continues from page one)

Imperial were much harder than what I did for my MBa at LBS". He said that studying here gave him his logical and quantitative ability, with an analytical attitude to problem solving. He feels that learning how to use computers effectively was particularly helpful.

Instead of using traditional methods to predict stock market trends, 'quant teams', such as the one that Mr Alamouti heads, use derivatives. "Using quantitative techniques in marketing is very big right now," he said. Normally, trading is based on

analysis of a company's past performance, and on general market trends. From these charts, dealers work out what range of values shares will be most likely to have. Quanta techniques use partial differential equations to determine these ranges and seem to be considerably more successful.

When questioned about his huge earnings, Mr Alamouti said: "I really couldn't comment on that." Using the combined mathematical skills of FELIX, it is estimated that we received about £750 worth of his time.



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disappear more rapidly as a spate of bizarre thefts swept Imperial College. Two visiting students were caught when they found themselves locked inside the Department of Electrical and Electronic Engineering. Further thefts of the brass Imperial College Union plaque and FELIX Sign were blamed on Rag collectors. The 'Raggies' represented Universities all over the country and had come to London to participate in the Live Monopoly event.

FELIX 1009

Walk out! College caterers abandoned 150 diners attending the Royal School of Mines Union (RSMU) Freshers' Dinner. The catering staff complained about student drunkenness and vomiting. Vinod Fernandez, RSMU President, declared that the dinner "was far tamer than in previous years". Muslim extremists provoked uproar when they distributed leaflets of an anti-homosexual and anti-Semitic nature in and around the University of London Union (ULU) premises. Interest came to a head in the 'university superleague'. Sir Ronald Oxburgh, Rector of Imperial College, dismissed claims of a breakaway and suggested 'sensational journalism' had exaggerated the story.

November

The news this month focussed on Islamic extremeists, idiotic Union General Meetings (UGM) and insulting rag mags. New developments in and around college posed all sorts of problems to students, staff and student news reporters. St Mary's Hospital Medical School made their feelings known when they attended a UGM en masse.

FELIX 1010

A million pound development project was planned for Imperial College Boat House. The Putney based development will provide improved training facilities and changing rooms, a larger area for the storage of boats, a workshop and a small hall of residence for Boat Club students. Staff and students mourned the death of Elaine Taylor, Administer in the Kobler Unit. Mrs Taylor died of cancer on 16th of October. Further trouble was caused at London college's by Islamic extremist group Hizb ut-Tahrir. Meanwhile, five of the proposed Superleague universities were announced. Sir Ronald Oxburgh, Rector, admitted that Vice-Chancellors of Imperial, Oxford, Cambridge, UCL and Warwick had met. He again scoffed at the rumours of an elite group being formed as he celebrated his 60th birthday. David Trimble, Ulster Unionist MP for Upper Bann, spoke pessimistically at a meeting of the Conservative Society about the Northern Ireland peace process.

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FELIX 1011

There was uproar over the vetting of overseas students by the Foreign Office. Students from India, Pakistan, Israel, Libya, Iran, Iraq, Syria, Egypt, Cuba and North Korea will soon be vetted before they can accept posts in Britain. The move results after concern over the possible proliferation of militarily dangerous technologies. Students began to worry following an announcement in a national newspaper of the governments plans to privatise the Student Loans Company. Lucy Chothia, President of Imperial College Union, condemned the move as "completely appalling". At St Mary's, students were apprehensive when informed of their position in the move to the proposed new Biomedical Science building. It was also announced that HEFCE would not fund the entire cost of the new building, with the shortfall of £11 million to be found by the college.

FELIX 1012

The release of this year's Rag Mag caused a mixed reception. Imperial College Union made no moves to ban it despite its offensive nature. The cover of the magazine showed a picture of the Moor's murderers collecting money for the National Society for the Protection of Cruelty to Children with the slogan 'Doing it for the kids'. The literature also featured pictures of pierced male genitals. Elsewhere, the plans for the Biomedical Sciences building caused yet more headaches when it was discovered that the Chemistry department faced the loss of two lecture theatres if it went ahead. Alone amongst such college momentum, a student lobbied his department for 24 hour access to computing facilities. He was soon joined by 100 petitioners.

FELIX 1013

Students from St Mary's Hospital Medical School swamped the Union General Meeting. Over 450 people packed into the Union Ents lounge, the largest attendance in many years. The Mary's students were attempting to retain their financial independence until they moved to the South Kensington site. And this wasn't the only mark Mary's students left on Imperial it was discovered. Students sprayed 'Mary's Forever' in white paint on the roof of the walkway. Also at the UGM, a student suffered head injuries in a freak accident. Sam Scotcher, Vice-President of Royal College of Science Union, was hit on the head by a falling tripod. The tripod was dropped by a member of the STOIC team who were trying to film the meeting. Miss Scotcher was taken to St Mary's Hospital but informed that the injuries were not serious. Hopes of free Friday nights at the Union were dashed at the UGM. The motion calling for the entrance charge to be scrapped was thrown out. Also the University of London Union banned the sale of Imperial College Rag Mag on their premises and over 30 IC students appeared on BBC's Children in Need. All members of Imperial College Dance Club, they presented a cheque of money raised during a sponsored 24hour dance. ➔

The News Editor would like to especially thank the following people... Merry Christmas and have a Happy New Year.

Rachel Walters, Lynn Bravey, Dave Cohen, Declan Curry, Ian Davey, Andrew Dorman-Smith, Mike Ingram, Peter Lanigan, Andrew Long, Michael Ludlam, Joe McFadden, Rebecca Mileham, Andy Sinharay, John Sinner.

Nuclear Jones

BY ANDY SINHARAY

Dr Gareth Jones, college tutor and senior lecturer, has received the Nuclear Electric Prize 1994 for Education in Physics.

The prize has been awarded in recognition of the work done by Dr Jones in establishing the Physics Department's Year in Europe course. It is part of the annual partnership awards which are sponsored by industry and identify innovation and development in Higher Education across various academic fields.

The Physics Department's year in Europe course, one of the first to be set up at Imperial College, evolved from a scheme started by Dr Jones in the late 1980s. Speaking to FELIX, Gareth Jones said, "It was started by contacts I had with colleagues, and it grew into an arrangement for summer research projects." Dr Jones was director of undergraduate studies at the time. He added that it was intended to allow undergraduates the chance to experience research as postgraduates were able to.

A scheme was subsequently set up, allowing undergraduate students to travel to other European universities during the summer. The first group went across in 1987, and the department now has established links with about ten universities, including Hamburg in Germany, Padua in Italy and Grenoble in France. The programme was later extended to the whole year. It is now part of the department's year in Europe scheme, which allows students the chance to spend their third year at a host university abroad.

The last few years have seen around 20 students going abroad annually, with seventy students completing research projects overseas during the last seven years. Many students have since said that the European element of their course has proved useful in obtaining employment or PhD places. "I have been very impressed by the work the students have accomplished, and the beneficial effect the scheme has had on their professional development," said Dr Jones.

The Final UGM

BY MICHAEL LUDLAM

The very last Union General Meeting (UGM) was held last Friday. Under the new Imperial College Union constitution which is set to be introduced at the beginning of the next term, the UGM will be replaced by a Council Meeting of Representatives.

Despite the imminent demise of the UGM the interest in Union affairs remained confined to a tiny minority of students. Less than 70 people turned up to discuss the motions and elect next year's committee members. It had been hoped by some that there would be a revival in interest in UGM's following the huge numbers who packed out the Ents Lounge at

last month's meeting.

In a motion proposed by John Durrell, the UGM decided that Lucy Chothia, Imperial College Union (ICU) President, should try to gain a place on the college committee called the Management Planning Group. At present this is the only committee in college not to have some form of student representation.

The committee discusses the major moves and changes in College and recently discussed the move of ICU to the Sherfield building. It was argued by Mr Durrell that if a student representative had been present at the time of these discussions them, "it wouldn't have taken us so much by surprise."

Us in the NUS?

BY RACHEL WALTERS

Imperial students will not re-affiliate with the National Union of Students (NUS) according to a chemistry department survey carried out last week.

Miles Ambler, Departmental Representative for chemistry, has organised a preliminary survey of 1st and 2nd year chemists to establish the level of support for a referendum on the issue. When asked whether Imperial should join the NUS, only 27% responded positively.

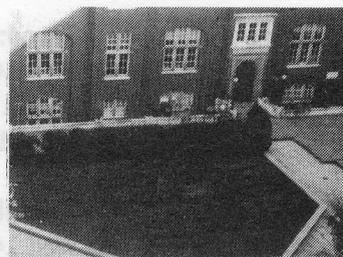
In a survey which also tried to gauge the levels of involvement and interest that students show for Union issues in general, it was notable that over a third of students could not name their Union President. Interestingly, those who felt most strongly that ICU should retain its independence seemed to be the best informed, and were the most likely to attend Union General Meetings.

Explaining his motives for organising the survey, Mr Ambler said, "I didn't want people to have to vote in a referendum when they were unaware of the advantages and disadvantages involved." He says he wanted to heighten awareness of the issue and find out how

much students knew of the implications of joining the NUS. Describing the NUS as 'discredited', he said that it was generally accepted as being socialist, and, "doesn't accurately reflect the middle-class Liberal/Tory attitude of the average Imperial student".

Lucy Chothia, ICU President, said that she was glad to get feedback on the issue. She emphasised that she didn't want to pressurise students into rejoining the NUS, but felt that students had the right to be informed. Ms Chothia has said that she will research the final costs and present the arguments for and against affiliation to students if there is sufficient demand.

The survey comes in the same week that the Union General Meeting voted to enter into dialogue with the NUS in order to, "discuss the possibilities of membership of ICU or its Constituent College Unions". The proposer, John Sinner, believes that present members should have the right to decide whether Imperial College Union returns to the NUS or not. He added that present students have not debated the issue and should be given the chance to do so.



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December

The month of festivities saw nasty assaults, near poverty for students and so far not much else! Interest increased in mascotry with raids on both Queen Mary and Westfield and King's Colleges by the Royal College of Science Union Mascotry team. Worryingly, fears that a university education may become only a pursuit of the well heeled begin to arise.

FELIX 1014

Students fearing increasing hardship were told that the level of tuition fees would be frozen this year. But a reduction in the number of people going to university was planned and the grants were cut by a further 8%. Four Union Stewards required hospital treatment following a brawl in Beit Quad. Controversy arose over Imperial College Security's role in the incident. A further fracas occurred in the Mathematics Library when a fight broke out between a current and an ex-student. In a more docile battle, following continued complaints from residents of 169 Queens Gate, it was suggested that the pedestrian gates on Imperial College Road may close at night. The residents had complained of damage to cars and 'general horsing around.'

editorial

An Escalation of Arms?

Walking out of the quad last Friday night, I noticed the new Showsec security guys on the gate. They are huge and no doubt quite a deterrent to those thinking of spoiling another's evening out. But are they necessary?

With the events of the disturbance on the 2nd December still very fresh in many peoples' minds, the obvious answer is 'yes'. After all, the stewards lacked the firepower to subdue or restrain the assailants, right? That may be true, but it is worth considering what their role is (or should be).

I was talking to an old time member of ICU who was saying that four years ago there was only one 'duty officer' in charge on Wednesday and Friday nights. S/he was given responsibility by

the appropriate Sabbatical to ensure the Bars closed, that everyone left the building, and while keeping a low profile, to sort out any problems that may have arisen. Any serious problem meant calling security or the police. Cards were not checked on entrance to the Union, so any number of students (or anyone else) could enter unaccounted.

The situation was reviewed after a serious incident involving a duty officer. Card checking was brought in and in the years that followed the number of student staff (now known as stewards) on duty increased to current levels. The old black jumper of the duty officer was replaced with the bright yellow uniforms currently used. And now people appear to be being 'escorted' from the quad with greater frequency. The role has become a high profile one.

I have no doubt that those

people removed were being obnoxious or worse. But the idea that students can act in such a 'policing' manner seems dangerous. The same students who are meeting in lectures and competing in football matches are forced into a relationship of Authority vs Miscreant. And with two or three stewards supporting the one who 'confronts' an undesirable, (who probably saw people being removed the week before) can the situation be anything but charged?

It is a difficult situation, that's certain. But in the long run, maybe increasing the muscle on hand only puts more burden on those at the front, those most vulnerable, the stewards.

Thank You...

To everyone who was involved in producing and printing this issue over-bitten issue. Merry Xmas, I look forward to another fun term!

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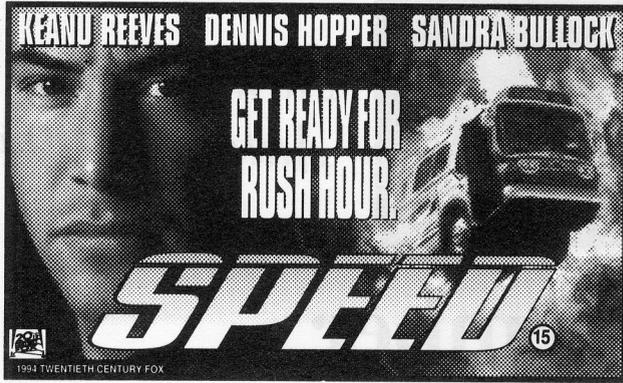
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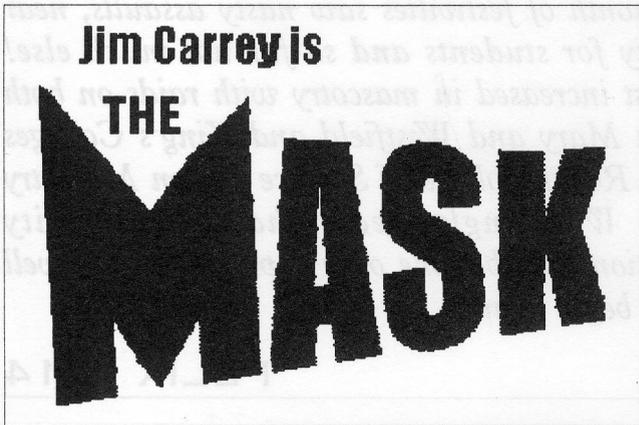
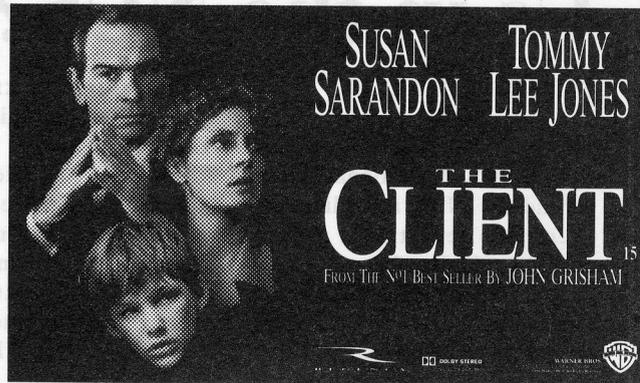
Christmas Movie Madness at ICU Film Society



Speed:
 Wed 14th at 11pm
 Thur 15th at 8pm
 Fri 16th at 2pm

The Client:
 Wed 14th at 6pm

Doors Open
 10 mins before
 programme start



True Lies:
 Fri 16th at 5pm

The Mask:
 Wed 14th at 8.30pm

Four Weddings:
 Wed 14th at 3.30pm

Threesome:
 Thurs 15th at 6pm

Spinal Tap:
 Thurs 15th at 11pm

ROAR; E&OE.

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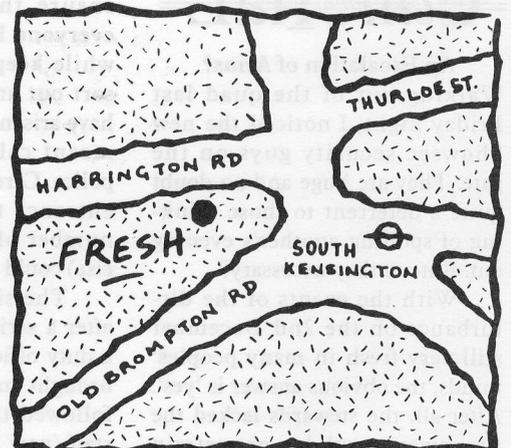
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HIV, controversy and a lot of money

Lisa Rajan describes the dissenting voices in AIDS research

December 1st was National AIDS Day. This came at the end of a year full of public debate and controversy about the disease. The tenth International Conference on AIDS was held last August in Japan.

It's about 10 years since we started research into AIDS and the big questions surrounding it. That's a long time and a lot of money – over \$3 billion in the USA alone. That's a hell of a lot of money. So how much information does \$3 billion buy? Depressingly little. The TV adverts, the billboards and the magazine spreads have been shouting for years about what to do, what not to do, who to sleep with, what not to inject, how you get AIDS, what causes it.... Hold on; stop right there.

What causes AIDS? HIV, of course. Of course? Says who? Most of the experts do, but are they right? We're all scientists here – we all know the process. Hypothesis, experiment, proof. If HIV causes AIDS there must be proof. With \$3 billion's worth of loose change jangling in somebody's pockets, the phenomenal amount of experimentation must have proved what causes AIDS? Sadly, this isn't the case.

Dr Kary Mullis, a chemist who was awarded a Nobel prize in 1993 for his pioneering techniques on the large-scale amplification of DNA, was asked to prepare a paper on AIDS for a conference. Like every well-trained scientist, Mullis qualifies every statement he makes with a reference. The opening sentence of his introduction stated that HIV is thought to be the virus that causes AIDS. He thought he'd better reference this, and consequently sifted through every paper he had on the subject to find out who had originally discovered this. He drew a blank. There was no original source.

So why do we assume that HIV causes AIDS? This would be a fair assumption if every case of HIV resulted in AIDS, and every case of AIDS was caused by HIV. Is this true? Yes and no.

Take the first statement. Every case of HIV results in AIDS. Cause and effect. But how long are we giving HIV to produce AIDS? Two years, 5 years, 10 years? What if



HIV has been present for 20 years before there is any sign of AIDS? Can we still be sure that it is involved?

Researchers at the Royal Free Hospital in London are studying a group of 111 people with haemophilia who received blood contaminated with HIV 13 years ago. The time taken for them to develop AIDS has been monitored. Statistics show that about a quarter of them will not develop symptoms for 20 years. Up to a fifth won't get them for 25 years. Of those who were under 15 years at the time of infection, one in eight could remain symptomless for over 30 years. Thirty years is a long time. Anything could happen in a long time.

Maybe something else that causes AIDS will come along. HIV would still be present, but its presence could be irrelevant; merely coincidental. If the onset of AIDS could occur any time after infection with HIV, how long shall we give it, exactly? Fifty years?

So what about the other way around? What if we can find a case of AIDS where the person isn't infected with HIV? That would be pretty conclusive, wouldn't it? So, is HIV

always there in every case of AIDS? Well, it is and it isn't. It's not that clear-cut.

The problem isn't epidemiological, it's linguistic. At the moment, if a person who is HIV-negative develops problems with their immune system then it's not strictly called AIDS. The presence of HIV has been incorporated into the definition of AIDS. This makes the high correlation between them tautologically contrived. It is impossible to falsify the theory that HIV causes AIDS because each is inherent in the definition of the other. So it's impossible to have AIDS and not HIV, because of the way HIV has been defined.

We're going round in circles. People do acquire deficient or impaired immune systems, though. This renders them very susceptible to infectious diseases and normally harmless bugs. The symptoms sound suspiciously similar to those of AIDS. It's AIDS in everything but name. So, it appears that we do have cases of AIDS without HIV. Can we then decide that HIV does not cause AIDS? We're on dodgy ground

here. Our case isn't strong enough to make any assumptions. The facts point to the idea that HIV is not involved, but that's all it is: an indication.

It's becoming more than that. A handful of eminent scientists from all over the world now share the dissenting view that HIV is not the cause of AIDS. Their rationale and opinions on why they don't subscribe to the universal HIV-AIDS theory is not widely communicated.

This is because they don't have a forum in which to do so. Most leading scientific and medical journals refuse to publish these dissident arguments. They are worried that if they publish such contradictory views then people will ignore advice on changing sexual habits. The editor of *Nature*, John Maddox, actively dissuades his journal from reporting any unorthodox views on AIDS.

The rebels have many interesting views on what causes AIDS. They differ in the extent to which they reject the HIV theory. Dr Peter Duesberg of the University of San Francisco at Berkeley argues that AIDS is not caused by an infectious disease, but occurs as a



result of recreational or medical drug use impairing the immune systems. He means drugs such as cocaine, LSD, speed and poppers. He claims this is why the disease is so common among young people, drug users and gay men.

He's not the only one with this view. Dr Fabio Pranchi, an Italian specialist in preventative medicine, also believes the misuse of drugs is to blame. Michael Ellner, president of Health Education AIDS Liaison (HEAL), thinks that informing people that they are HIV-positive causes constant terror, and programming to get sick and die. He thinks long-term drug use is far more likely to be involved than a germ. Dr Lawrence Bradford, a colleague of Duesberg, is also a fan of the recreational drugs theory, together with multiple infections, exposure to blood products and autoimmunity.

Others believe HIV may have a role in AIDS – though not the suggested one. Dr Steven Jonas from the State University of New York believes that HIV plays a part. "It is necessary, but not sufficient."

This view is shared by Kary Mullis. He believes that AIDS is caused by an enormous level of exposure to viruses and bacteria. Every day we come into contact with millions of viruses and bacteria. They enter and live inside our bodies for varying lengths of time. Some make us ill; most we know nothing about. The level of these foreign organisms may accumulate over time, so that after, say, 10 years, we have a tidy collection of tens of thousands of viruses. There may be a threshold level at which there are too many around for our bodies to cope with.

Viruses other than HIV may start to attack the immune system. Maybe HIV's presence is coincidental, and it happens to be the only virus we are testing for. The real culprit goes undetected and HIV becomes the scapegoat. It's possible, and as a theory it definitely holds water.

A different theory, put forward by

Harvey Bialy, another journal editor, insists that AIDS in Africa can be attributed to decline in health care, poor sanitation, economic decline and the development of drug-resistant infections. HIV may just be an 'entity of convenience', which meets the needs of researchers. Its effects are easier to investigate than those of political, economic and social problems. Many scientists involved in the debate are concerned that while it is becoming increasingly clear that factors other than HIV must be involved in AIDS, funded research concentrates purely on

HIV.

Dr Alfred Hassig, director of a Swiss blood transfusion lab, thinks that multiple stresses on the immune system provoke an acute reaction. This allows latent microbes, including HIV, to start attacking. He believes dietary measures can reverse the process.

So what's the message we give to the world? *That HIV does not cause AIDS?* Then what? Shares in Durex will plummet. We might revert from safer sex to safe sex. Even back to good ole plain sex.

You've spent the evening with Mr X at a party. He's gorgeous, with a top personality and a sharp wit. He tells you he's HIV-positive. Do you sleep with him? Even using a condom? It's all very well for the sceptics to say that HIV is not involved but there's still a nagging thought in the back of your mind as you peel off each other's underwear. It taps on your shoulderblade and whispers through your earwax that there must be a good reason why all those scientists were convinced for over a decade that HIV was the culprit. \$3 billion of research, \$3 billion of research.

If they're not sure about the link

between HIV and AIDS, what about the link between HIV and sex? Is it definitely sexually transmitted? Infection with HIV does appear to happen when a person has unprotected sex. However, scientists have been unable to find any live HIV in semen. Surely if HIV were transmitted in this way, masses of it would be around. A substantial amount of HIV would be needed to have any effect on the recipient of the sperm.

It must be very frustrating to know that for HIV to be sexually transmitted it must be in semen. And yet it can't be found. Maybe we are looking for the wrong thing. So what did we decide about the sex? Give it a miss or carry on regardless? The frustration of the scientists will pale in comparison to your own if you don't decide soon.

I'm assuming here that you'll be attracted to Mr X in the first place. This makes you either a heterosexual woman or a homosexual man. Your dilemma is sex with an HIV-positive man. What about the other way round: an HIV-positive woman? Your risk assessment this time is slightly different. Female to male transmission of HIV occurs at an extremely low rate. The risk is much smaller. Woman to woman transfer occurs at an even lower rate.

What's the decision? In most cases the very stigma and associations of HIV are going to put you off before you go anywhere near the underside of his/her duvet. The rest of the evening may end shortly with cold shoulders and cold showers. You're as politically correct as the next person, but putting your life on the line is just not sensible.

The rebel scientists could be right, but they could equally well be wrong. How would you feel if you ignored all the safer sex advice and someone proved that HIV was the cause? For the time being, the blanket advice of don't do anything with anyone is definitely the safest. **F**

"So what's the message we give to the world? That HIV does not cause AIDS?"

"Your dilemma is sex with an HIV-positive man. The rest of the evening may end shortly with cold shoulders and cold showers..."

a question of reality

Servan Keondjian did not follow the usual career path for a Physics graduate. After leaving Imperial College in 1990, he first spent a year working at a small computer games company, and then went on tour as a pianist with a rock band. To mark the end of his first three years out of university, he founded a computer graphics company.

However, you shouldn't get the impression that Servan didn't know what he wanted to do. It would, in fact, be more accurate to say that he knew what he didn't want to do, which was to head out into the world, BSc in hand, and stumble straight into a nice, sensible, boring job at a nice, sensible, boring company.

The company that he founded, RenderMorphics, is now at the forefront of a 3D graphics revolution which is sweeping the personal computer world. RenderMorphics' product, called *RealityLab*, is one of three high performance 3D graphics systems which have recently appeared on the market (the others being Criterion's *RenderWare* and Argonaut Software's *BRender*).

The Product

The best place to start the tale is back here at Imperial. Servan unenthusiastically recalls memories of his days as an undergrad: "I thought it was OK, but I did get quite fed up sometimes because it was all very serious and most of the people were pretty serious. That I found was a bit of a drag."

RealityLab sprung from work Servan did in his spare time while at Imperial: "I wrote a simple 3D system at the end of my first year, and really that's where all this stuff came from."

Servan was certain that he wanted to make money out of his 3D obsession. He got a job with Magnetic Scrolls, a software company specialising in adventure games. After a

year there, Servan left because they didn't want to do any 3D stuff. So he joined a band instead.

"I don't like working for people, I've always had a problem with it," he explains. "I didn't even go to any of the Careers Fairs, because I just wasn't really interested in that. I was pretty interested in playing in a band, actually. I did that for two years. I did about 110 gigs, touring all over the country. That was alright, good for a break. And it also meant I could write graphics code during the day."

It was Servan's friend, Kate Seekings, who finally got him to start a company to do something with his graphics, as she explains:

"He kept whingeing about wanting to start a company, and every time I saw him he hadn't done it. I even bought him a book about how to start your own company, and it still didn't work. So I ended up doing it for him."

Says Servan: "It was something I really wanted to do, but I wasn't sure about exactly how to direct it to begin with. It started off with us going to write a massive 3D game, but it turned out that the 3D was so good that we could make something of that."

Servan and Kate pulled in Doug Rabson, who he had met at Magnetic Scrolls,

and together the three of them started RenderMorphics in Kate's back bedroom.

"We set up the company at just about the time we'd finished the first version of *RealityLab*. So we were in the really advantageous position of having a nearly finished product when we started. Most people would set up a company, and get venture capital to develop the product. That puts them into debt, because it all takes a long time to develop."

The Marketing

So RenderMorphics had their product. The problem was that no-one knew about it. Kate, RenderMorphics' sales and marketing director, leaps in and takes up the story: "We tried to approach key strategic people, and we hoped that the word would trickle down, and that's basically what happened."

"We made some mistakes initially. We drove all the way to Autodesk in Switzerland in a Renault 5 and then they weren't the right people. And we went all the way to Paris to see Microsoft, and saw some guy who tried to sell us Windows NT. So that trip was a waste of time too."

"Then in November last year we did our first trip to America. I had to literally pick the phone and cold call companies, and in nine days we saw thirteen different companies. Our first graphics trade show was SIGGRAPH last August. When we went to the show we were able to announce relationships with Matrox, Autodesk and Kaleida (an Apple/IBM consortium). So we arrived with a bit of a bang."

The key to success at this early stage was not to give up, says Kate: "We just had to be persistent. I didn't always get to the right people, I'd just phone people up and ask for their person who was into 3D and talk to them. We also got ourselves a press agency, which was really expensive but was well worth it in America, and we got quite a lot of press coverage there."

The Present

In the last twelve months, interest in *RealityLab* has really taken off.

"It's been really hard work, it's just mad," says Servan. "We can't cope with the demand and everything that we're getting at the moment. We still need to expand and get more people. So we're getting another person from Imperial."

That makes a total of five ex-Imperial students now working for RenderMorphics.

"Imperial must have a



Big Time: The three founders of RenderMorphics, (from left to right) Doug Rabson, Kate Seekings and Servan Keondjian. Photo: Mark Baker

RenderMorphics is a leading edge 3D computer graphics company. It was founded by Servan Keondjian, who left Imperial's Physics Department four short years ago. The journey towards graphical success was not easy, and involved a rock band and a Renault 5...

Render Morphics

talks to Paul Dias

good computing department," ponders Servan. "The students seem to come out with the right skills. They seem to know what they're doing when it comes to coding. I know they teach you Modula-2 but that's probably a good thing. Most people in Industry would say 'Hold on, what's the use of Modula-2, we don't use it!' We believe the most important thing is for somebody to have a good coding background, and know how to structure and set out code, which most people can't do very well. That is really important."

RealityLab is finding itself being used for a large number of applications.

"There's load of VR stuff happening, Internet-based Virtual Reality things so you can walk around worlds on the Internet, which is very cool – going through doors actually goes to new sites on the Internet. VRML is based on our software. There's a whole load of 'world building' software being done too. Of course, games is the biggest application – there are loads of people doing games."

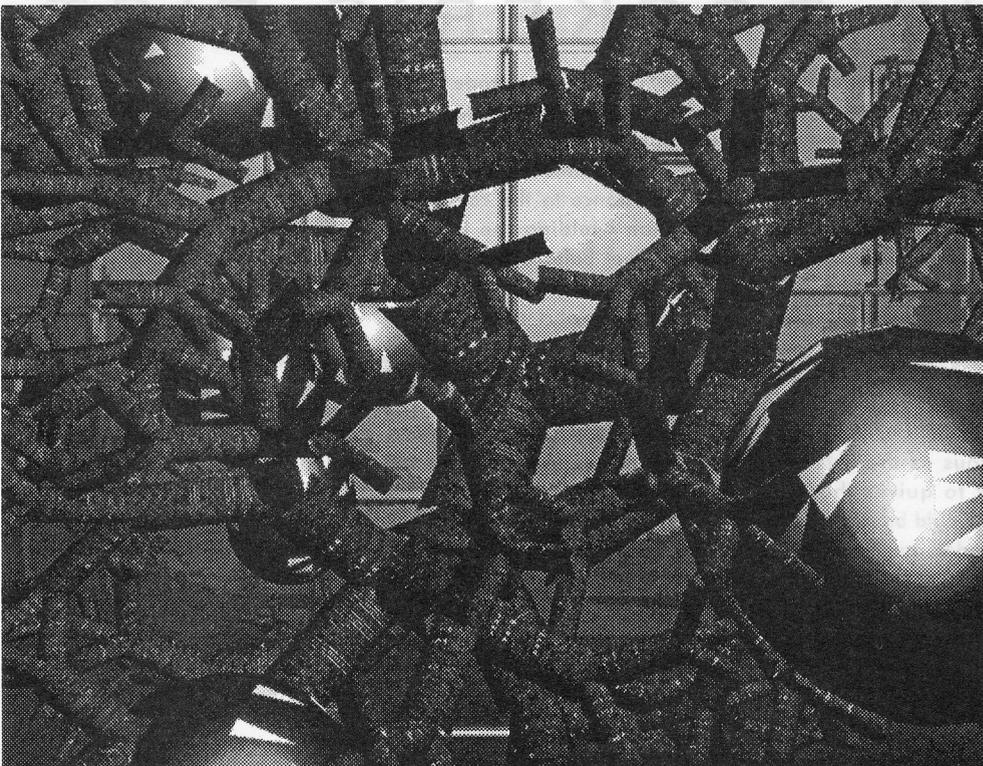
The Future

RenderMorphics are currently concentrating on further developing *RealityLab* and porting it to as many different platforms as possible.

"One of our strong beliefs on the software side is that we want to be completely platform independent, we don't believe the box you're running on matters," explains Servan. "Two things we had in mind when we designed the system: the most important thing was speed and following that was portability. So it's been designed from the ground up to port very rapidly. So we can drive a PlayStation or a DEC Alpha through it, and the API is the same."

Servan also sees the Internet as an important area for the application of 3D graphics technology:

"We're all very interested in the Internet, and stuff to do with linking 3D and the Internet. 3D is about the best compression scheme you could come up with for images. The World Wide Web is expanding at a phenomenal rate. What things like VRML do is provide a 3D extension to that. They're dying to use it from what we've seen. Because it's great – you can have a virtual foyer, so that as you connect to some business' 2D page, up comes a 3D window with a 3D entrance hall, and you can wander around and look at stuff. I think there will also be a whole bunch of games like that. Basically Doom over the Internet, but that will need a bit more speed."



Eggstastic: This still greyscale image does not do justice to RealityLab's abilities. The lattice structure is a static bitmap, which also has a z-value stored for each pixel. The egg-shaped objects weave in and out of the lattice in smooth real-time lightsource-shaded Gouraud-shaded georgousness.

TECH INFO

RealityLab is an advanced Application Programming Interface (API) for high-performance, real-time software 3D rendering. It brings game developers workstation-class graphics on the desktop at a fraction of the cost. RenderMorphics' powerful, object-oriented C-based API is easy to use and dramatically simplifies the incorporation of real-time 3D in a wide variety of interactive applications. RealityLab can render interactive 3D entirely in software with an ordinary graphics controller, but the engine also transparently takes advantage of hardware acceleration at any stage of its rendering pipeline.

[RenderMorphics press release]

Yes, it sounds very nice... but does it live up to the hype? After seeing several demos of the system, I can only say YES! I could have easily been watching the output from a £100,000 Silicon Graphics' monster, rather than a £2500 Pentium PC. All of the demos were very smooth – the frame rate only dropped once the images began to look distinctly ray-traced. The biggest treat was a soon-to-be-released graphics board with hardware 3D acceleration, giving a huge performance boost – a simple 'fly around and shoot everything' game was used as a demo, and it was very fast – if you've seen the recent Sega *Star Wars* coin-op, imagine it with smooth shading, lighting and transparency effects, 16 million colours, higher resolution display, much better explosions, and EVEN FASTER. Once the games for this system start appearing, I think I'll sell my liver and buy a PC. Wow.

Platforms supported by RealityLab

MS-DOS, Windows, Windows NT (on PC and DEC Alpha), Unix and Motif on RS/6000, Sun SPARCstations, Silicon Graphics workstation, Apple Mac and PowerMac, port in progress to Sony PlayStation

RenderMorphics have partnerships with 3DLabs (Hardware 3D accel.), Alliance Semiconductor (Hardware 3D accel.), Creative Technology (Graphics cards with 3D accel.), Matrox (Graphics cards with 3D accel.), Autodesk (Cyberspace Developer's Kit), Gemini Technology (VR software toolkit), Kaleida Labs (Script X), Virgin Interactive Entertainment (Games)

Mark Baker

Frater Fiam's Festive Feast

Christmas? Bah, humbug! Whilst the masses are spending money on gifts, your Frater laments yet another anniversary of the beginning of the end of the world; but in a fit of unseemly generosity he has brought to you double dose of sanity. Yea, for your delectation, here is a prime selection from Felix's columnar heroes.



I, your Frater, feel that it is time to examine mine own position; for at times when I feel gifted with awareness, the realisation hits me that many will say "What a load of bullshit" about my delicate tracts. Why do they make this rash assumption? Suffering from curiosity I consulted an accomplice of mine, and his eventual response was that I expressed ideas which were unexpected by my readership. Intriguing, thought I. It seems obvious that the ideas expressed may be initially unknown to those who wade through these turgid texts, but surely that is the whole purpose of any piece of writing. After all, if what I said was already known to you, then why should I say it at all? One feels that it would be mere back slappery to do so.

Granted then that your good Frater makes unexpected gestures towards murderers, darkness,

smokers and so on – and surely it must be relevant to do so – but why then must he couch his ideas in so many words, so much paraphernalia?

He replies that he would never want for his column to be obvious. He likes a puzzle, as it were, and his words are not there to be glanced at and discarded like a repeated Neighbours plot, but should be studied at length. Not everything is left there in the open but the most subtle elements are disguised, hidden or even neglected in their entirety. Clues are interlaced with graphics in a tapestry of word, idea and image. That is his aim.

So I am aware that many may scan briefly over these words without a thought, but for those who feel inclined to make the effort to consider the gracings of these pages more fully, the rewards to them will be boundless.

Who is this Glyph, they ask, and why does he rile so much against humanity? Even J cannot answer such questions, as he is just a shadowy figure who haunts other places. However, he does provide us with textual gems such as this...

THE DOCKER'S FIST

My mother married 'beneath' her. Consequently we are not allowed home at Christmas, or at least it is obvious that we are not welcome at the bridge. This never bothered me particularly until about five years ago when at a wedding in Co. Galway a big scrap broke out – an us against them matter; probably over a "they used to mind our sheep" comment or the like. It became obvious as the fists and quiffs began to quiver that the London exiles would be required to even up the odds, and avenge or protect the family name as the case may have been. I thought this was great being seventeen and drunk with several bridesmaids to impress. Like a youthful Gary

Cooper in high noon I strode boldly into the heaving throng, learning very quickly that school biology lessons and a little rugby are less of an assistance to the combative skills than wielding the loy and throwing wet bales of hay around all day. My Mother at this point gave the old boy his instructions for

in relative safety, and then returned to the throng and leathered every last one of them. A display of controlled violence as exiting and disgusting as I have ever seen outside of the army. He picked up his hat and walked out of the hotel to total silence. By his expression I thought that I was in an unfathomable depth of shite... o m a b l e depth of shite. He went across the road and sat in the car. I followed him at a discreet distance, as discreet as a drunk and bleeding teenager can be at least; I opened the car door. He was listening to the football results on the radio, it being a saturday. "Stoke City", he said in obvious disappointment "four-one.". "Bugger" I said. **Glyph**

Jordan provides us with a visual fist, but the title remains an enigma.



POLITICAL SCIENCE



The government's science policy has, like many others, been kicked around between the idealistic libertarian and pragmatic interventionist camps. The recent budget and edicts issued from HMT and DoE over this year have highlighted this football game.

On the one side there's the definite – and sensible – push for Universities to stand up on their own two feet. Yet short term actions confuse this aim. For

example, Universities are not allowed to charge the government the full cost of tuition fees. For example, recent budget proposals disallow flexibility in VAT payments over the long term, a system used by Universities to free up cash flow in capital expenditure projects. For example, the DoE has started to hand out £500 to first year engineering students, thus artificially inflating the demand for these degrees. For example, the government's stated policy is to fund research which "creates wealth", thus contradicting the assumption one would have that the market would be able to deal with wealth creating research and that the government should maybe concentrate on funding basic research. The list of examples go on.

But despite the unsure signals coming from the policy makers, the year as a whole has had several good points for science, and for IC in particular. IC's bid to form a

BMS seems vigorous and exciting. And the formation of the Russell Group can only be good news for IC and its members.

On the wider front, the Human Fertilisation and Embryology Authority's (HFEA) report on Ovarian Tissue in research is an example of how to tackle complex scientific issues. And to tackle them in a way that the public understands and appreciates. The HFEA's approach is a constructive alternative to the sound bites that scientists and policy makers are training themselves to perform.

Finally, and on a "lighter" note, if you might be wondering where all this science is leading us, then John McCarthy – one of the fathers of AI – is giving a lecture on Lemmings (yes, the computer game!) as a new laboratory animal for AI. Date: 14th of December at 1400, Venue: Huxley 311.

Samin

Samin has spent a fruitful term expanding the concept of science at Imperial. He rounds off the year with this unusual offering...

NEW WORLD ORDER

The end of the twentieth century is witnessing a widening gap between the rich and the poor nations. Developed nations are zooming down the Information Highway, whilst the underdeveloped are busy fighting wars, disease and poverty – quite a world of contrasts.

"The Third World does not need pity..."

Every time wars break out, or famines decimate Africa or any other Third World nation, disturbing television pictures are beamed around the globe urging ordinary citizens to act. Aid agencies set up hot-lines for donations, pop stars hold concerts and the Pope prays for the afflicted. This is a cycle that has repeated itself many a time: Ethiopia, Somalia and Rwanda, to name just a few.

Apart from emergency aid, developing countries are constantly receiving aid from richer nations and organisations such as the

World Bank and the IMF. Since the 1970s, poor nations have been receiving loans and grants amounting to trillions of dollars. Primarily this money is intended for development and growth, but has this growth materialised? Definitely not. The Third World countries have developed a 'dependency culture'; they have become addicted to aid.

The IMF's common prescriptions for ailing economies is now working. Reducing government employees, devaluating currencies and cutting imports, only bring about unemployment, civil strife and the creation of trade barriers. What developing and underdeveloped countries need is investment and genuine guidance. Developed nations should lift trade barriers imposed on agricultural and raw materials produced in poorer countries. This may sound easier said than done, but it seems quite illogical and unfair that prices for commodities produced in the developing countries should be determined in spot markets in London or New York. Essentially, the buyer determines the price, a dream for all consumers!

Rich, arms producing countries must stop arming these poor nations. Military expenditure in some African countries is as high as 40% of their national budgets. Billions of dollars are poured into huge military arsenals whilst their towns and cities lack basic facilities. Third World countries do not need armies – the world's two strongest economies, Germany and Japan have shown just that. The Third World does not need aid and pity, what they need is free trade, arms embargoes and freedom that can be achieved by the West stopping the propping of despotic tyrants and dictators.

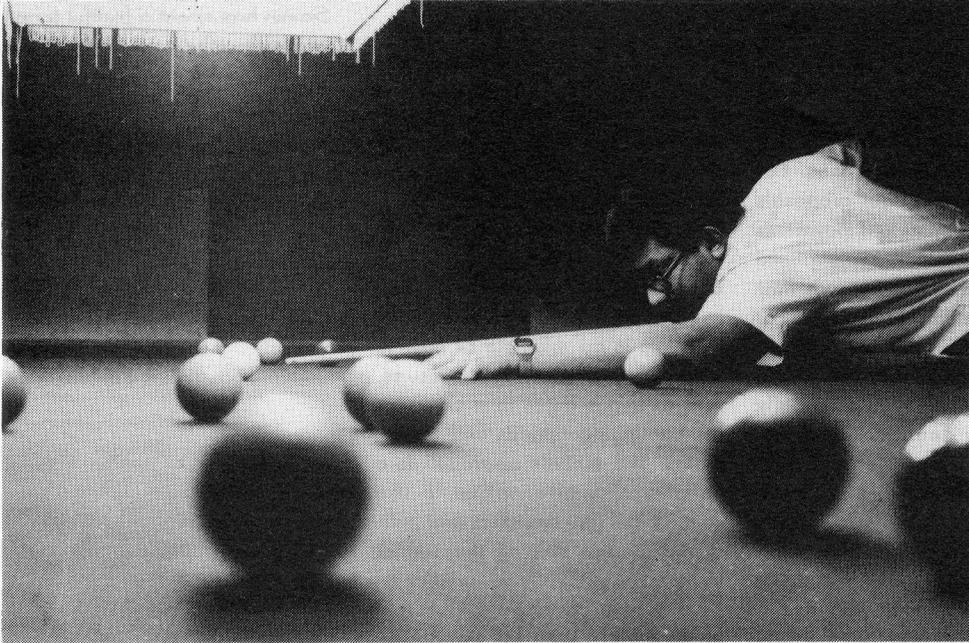
"What developing countries need is genuine guidance..."

These problems seem far away but they are closer to home than may appear, because the widening gap between First and Third Worlds puts migratory pressures on Europe that can shake the peace, harmony and prosperity that one seems to take for granted.

AITA

Always with a keen eye for world politics, Aita brings a little of the big bad world to our lecture theatres every fortnight. Here again he dives into the foray of international diplomacy...

I hope that your Frater's three wise men have provided at least a little mind fodder for the end of the year. Look forward to more thought bites in the returning year.
Yours, as ever, Frater Fiam.



Suspense: An IC Snooker player silently aims for his next shot

Who: Iranian Soc

What: Yalda Night

Keys: Solstice, Roman, Xmas

The 21st of December sees the arrival of the Winter Solstice which is one of the most important events in the Iranian Calendar.

In ancient times, the Winter Solstice was celebrated by most Indo-Europeans as the day that heralded the arrival of longer days, a sign of the increasing power of the Sun, the force that sustains all life on our planet.

Iranians already attached great importance to this day, and we continue to celebrate it today as our ancestors have done for over thirty five centuries. According to the teachings of the prophet Zartosht, Zoroastrian being the dominant religion in Iran before the arrival of Islam, we are all affected by the constant struggle between good (light) and evil (darkness). Hence the importance of the Sun, light and fire in many Iranian ceremonies.

The night of the solstice is the longest night of the year and the time when the devil, Ahriman, is at its most powerful. To protect against and thwart evil, we celebrate the arrival of longer days as a sign of the ever growing power of the Zoroastrian God, Ahuramazda. As a way of thanking God for what they had been given, and to pray for a plentiful season ahead, dried fruits and nuts, that were kept over from the summer, were served.

Such elaborate celebrations of the solstice were not restricted to the Iranian Empire, but were also passed on to the Romans; Natalis (literally 'birth') became one

of the most important events of the Roman calendar, large celebrations being held well into the fourth century AD. Up until then the birth of Christ was celebrated on the fifth of January; but the church decided to combine the event with Natalis, which by now was being mistakenly held on the twenty fifth day of December. Christmas came to be celebrated on this date with ceremonies very similar to the Iranian celebration of Yalda.

Iranian culture is extremely rich and we all do our best to continue and promote our national identity and the traditions of our ancestors.

Yalda celebrations will be held by the Iranian Society of Imperial College in the JCR on Saturday 17 December. There will be live music and traditional fruits and nuts will be served.

The factual information for this piece was obtained from the book "Ancient Ceremonies of Iran" by H Zahedi.

Who: IC Snooker

What: Southern Comfort

Keys: Ceiling, Spirit, Legion

Sunday 20 November saw a new chapter in the IC Snooker Club. Southampton hosted a friendly match against our brave boys who had to play against a string of unfavourable odds... train delays, closed station, no taxis, low ceilings, large legion of home supporters and empty stomachs.

The format of the friendly was that every team player in the IC Team A plays a single frame with the opposing team and similarly for Team B. Therefore, a best of 25 frames decides the winner.

Team A showed grit, determination and brilliance as the ploughed through Southampton to win convincingly. Notably Jon won all of his games. Team B, though displaying similar fighting spirit, was less successful. Team spirit was the order of the day as they fought ceaselessly, always supporting each other. As the day progressed frame after frame proved a painful battle, the team finally succumbed and failed to achieve the number of frames required to win.

This is not the only friendly match the snooker club have planned. There will be others and on 3-5 March there is the Annual Inter-University Snooker Championships in Cardiff. If you are interested in any of these events or just want to play the game, come up to the Snooker rooms (3rd floor union) any lunch time. Membership is £8 for unlimited use of the tables with no other charges throughout the year.

Team A were P Kellet, V Ly, J Fulcher, S Baugh and A Robinson. Team B were B Drinkwater, P Chew, N Samsathi, A Hassan and R Godbole.

Who: Euro Youth

What: BEST Summer Course

Keys: Distributed, Excellence

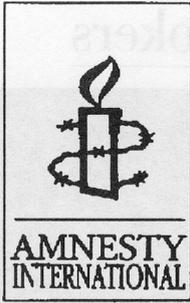
For those of you that haven't yet realised the Board of European Students of Technology is represented by the Society for European Youth at Imperial College. We are the local BEST group for the London area, and for the first time this year we decided to undertake the organisation of a major BEST project; a summer course of 2 weeks co-organised with the university of Newcastle, oriented towards Distributed Computing, a field of excellence at IC. A special subcommittee has been created to monitor the progress of the project and to deal with all aspects of organisation. The programme of the course will encompass all aspects of Distributed Computing and the timetabled lectures will be given by high-profile expert lecturers; we are ambitious enough to be thinking of inviting lecturers from other European countries and the U.S.. In any case the course will be international in the sense that it will be part of the BEST summer programme for 1995 and will thus be attendable by BEST members of other local groups around Europe. If you are interested of becoming a part of a great effort and a dynamic team you should act now! Contact either Emil Lupu (ecl1@doc), who is the coordinator of the project, or Kyriakos Hatzaras (kh@ee, EuroYouth chairman).

Watch this space after Christmas for more information. The meetings for the project are every Friday at 1.00pm, Huxley 305 (Computing JCR).

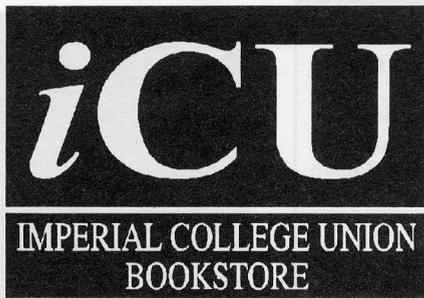
GREENPEACE



SHARED EARTH



AMNESTY INTERNATIONAL



Imperial Cancer Research Fund
Registered Charity No: 209631

Shelter
THE NATIONAL CHARITY FOR HOMELESS PEOPLE

Oxfam Greetings

Help these charities and others, buy your Xmas cards from the iCU Bookstore before stocks run out!

ICU EVENTS PRESENTS

Xmas

PARTY
FRIDAY

16th DECEMBER

UNION
BUILDING

DOORS 8PM



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- 👉 HUGGY & the BEARS
- 👉 FILMS → CLEAR & PRESENT DANGER
- 👉 CITY SLICKERS II
- 👉 DOUBLE SIX CLUB
- 👉 BAR UNTIL TWO AM

£3 ON DOOR
 £2 ADVANCE
 £1 OFF ICU CARDS
 FANCY DRESS

THE MENU



To end as we started. The ghosts of *music editors past and present* fight it out over the last black and silver circles of 94.



Shakespeare and Stoppard came to imperial as dramsoc double whammied out with **hamlet** and **rosencrantz and guildenstern are dead**. *Rebecca Butlin* and *David Cohen* respectively braved the thespic haunts and giggles.



If the Beatles can do it so can the little man with the big ear trumpet. Well, the **sixteen choir** have released Bach's mass in B minor. Up and attam says James White.



The punk and the princess played in Portobello, so *Patrick Wood* went along and caught a glimpse of the q.t. Arnie got fat in **junior** and claimed it wasn't steroid abuse - *J.Ho* laughed along. Then *Patrick* returns to rue the lack of s*x, violence and long camera shots in **vanya on 42nd street**.



The resurrection of Cobain continues thanks to **pearl jam's** vitality - *Vik* waits for three days. Elsewhere *Helen-Louise* trumps to the sound of **die toten hosen**, *alok* grinds his teeth at **Joni Mitchell** and *Vik* 'does' **the almighty** 'live' (ykwmim?).



Waxing lyrical over a part of London this week is *KC*. She cuts a swath through the london traffic courtesy of the trusty routemaster and the **number 10 bus route**.



rotation

Well this week we return to rotation's opening line-up of the year as current and ex music editors, *vik* and *tintin*, respectively take to the hot seat...

oasis - whatever

t; so the band of the year go for the christmas No.1 as well. Hmmm. I'm not sure that this song is as good as the singles they've taken off 'definitely maybe' but it's pretty catchy and has loads of strings.

v; perhaps they should have teamed up with Cliff?

t; no way he couldn't sing in that hard manc accent.

gary young - plant man

v; a very bad nursery rhyme with an annoying voice, minimal instrumentation and plain juvenile lyrics - "plant man knows where the plants will go, plant man knows that the plants will grow." I think the plant man got grass mixed up with crass.

t; yeah but this is Gary Young of Pavement fame so he's obviously going to be pretty screwy whatever he does.

elevatorman - funk and drive

v; "funk me, baby...funk me and

drive", is crassness becoming an epidemic?

t; vik you old grumble puss, this is a meaningful song about the relationship between funk and driving. Crassness has nothing to do with it..err...can I have my pills now please?

loni clark - love's got me high

v; bog-standard, modern, soul-less soul. Let's hope that love's got you high when you hear this. Anything less and you might slit your wrists...

t; you're really not in a good mood are you? Maybe you should have one of my tablets...

bomb the bass - darkheart

v; seven minutes of meandering, pseudo-atmospheric dub/dance crud. Bomb this...

t; I think that the readers should be told that normally vik is a totally nice, even normal guy who likes pressing flowers and reading poetry. Honest.

throwing muses - bright yellow gun

v; another simple, non-sugary pop outing from the twisted mind of Kristin Hersh.

t; I kinda agree on that one but I don't think her mind is twisted at all, I mean you're the one who wanted to review the Queensryche album.



homegrown smokers

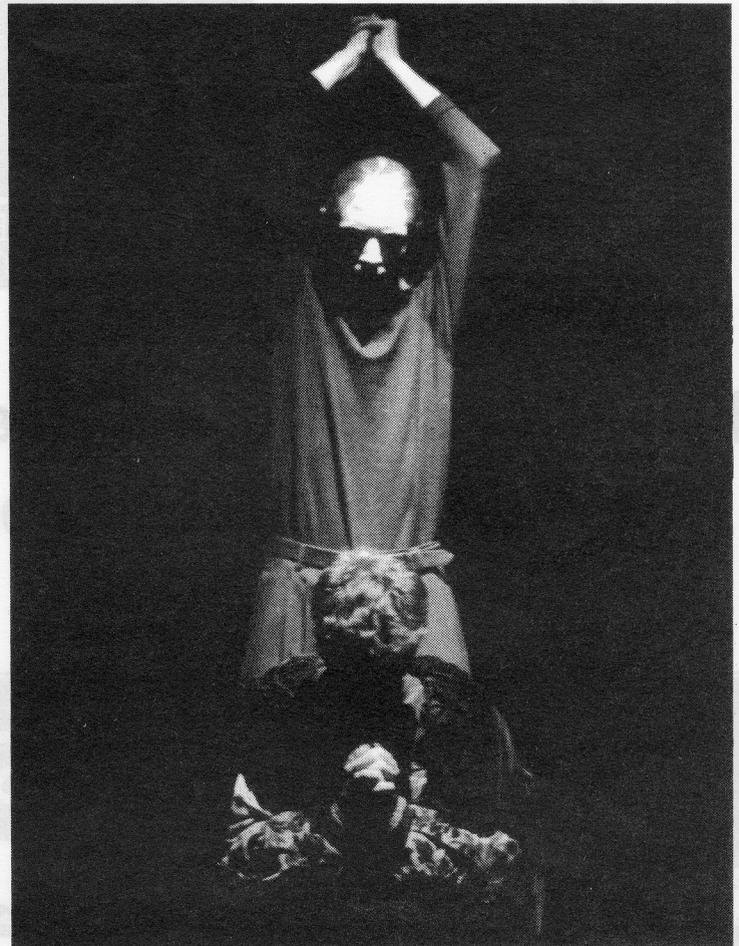


photo: Matt Parkes

On the programme it says, "Something is Rotten in the State of Denmark". Well whatever it is, it's not the acting. Dramsoc's **hamlet** boasts an impressive cast who, if a little stiff at the beginning, certainly liven up throughout the play. Apart from a couple of dubious choices, the cast are well selected and most importantly, believable.

Although on the whole the parts were played in a plausible manner, there are some which stand out among the rest. Mathew Williams delivers an excellent portrayal of the confused and unstable Hamlet, who, for the majority of the time, appears to be on the verge of a nervous breakdown. Glenn Tambe gives a smouldering performance as the sometimes rather weakly portrayed Gertrude and Katherine Fishwick is extremely competent in her role as the tragic, not to mention dippy, Ophelia. Joe McFadden (Laertes) and Ed Mulligan (Polonius) are also good.

The direction appears to run smoothly, although I'm not convinced that the 'microphone ghost' works. The costumes are colourful and although I did doubt the wisdom of director Iqbal Khan, when he dressed Hamlet in black

modern costume, I have to admit that it works - although I think that's as much to do with the henna as anything else.

Rosencrantz and guildenstern are dead (or R&G as it is affectionately known by its production team) is a brilliant attempt by Tom Stoppard at presenting Shakespeare's Hamlet from the point of view of two minor courtiers battling to find meaning in their existence. Jim Kingston (Rosencrantz... ummm, or was he Guildenstern?) and Rys Jaszek (the other one!), accompanied by an assortment of uncanny characters, present a rumbling tumbling delivery of witty word plays. Jim seems well at home with his character and the two manage to produce some smart dialogue. Occasionally the pace was let down by stumbling support, but hard headedness (literally!) and determination prevailed and the show went on. All said and done the first night's performance that I saw was a valiant try at a very difficult play. To the unsuspecting viewers who may have found this play somewhat bizarre, if not totally incomprehensible, I say: see Hamlet and the penny will drop, my bet is, heads up! ☺


massing

The **sixteen choir** was founded in 1977 by Harry Christophers to specialise in the performance of choral works at the extremities of the classical spectrum – from the Renaissance and the twentieth century. Since then the sixteen have expanded their repertoire to include pieces from the Baroque period. It is a recording of such a work that forms their latest release, *Bach's mass in B minor*.

Bach seems to have composed this mass and other late works for no apparent reason other than to lay down a record of his skill at composition. For many reasons, not least its length, the work was unsuitable for liturgical use. Despite this, Bach expended much energy on the production of what is arguably his greatest choral work.

Although the idea of a mass on this scale saw its fruition late in his life, Bach borrowed extensively from his earlier works; originality was not as much of a major criterion for critical acclaim as it is today. In composing the B minor mass, Bach drew on two main sources: a kyrie and gloria composed in 1733 as a showpiece for a prospective royal patron, and a sanctus written in 1724 for a Christmas service. Most of the remaining movements are reworked arias and choruses from Bach's existing cantatas.

It is a matter of contention as to the forces Bach envisaged for a performance of the work (in fact he never heard the work performed in its entirety), but today, for 'authentic' performances, two schools of thought prevail: the 'one voice per part' advocates and those who prefer to use a choir of about thirty voices. The new recording by the sixteen is of the latter type with twenty six voices in the chorus, five soloists and an orchestra of twenty nine players. Harry Christophers produces a well balanced sound from them.

In terms of interpretation there really isn't much distinction between this recording and, say, John Eliot Gardiner's of almost ten years ago; slight variations of tempo and dynamics and different voices for the solos being the most obvious. At the very least this maintains the high standards which the sixteen have set in their previous recordings. ⑤


old loves die hard & die hards give birth


The punk and the princess began as a school essay written by the 14 year old Gideon Sams. His mother fished it out of the bin and it became 'the punk', a cult novel with a safety pin through its cover, which sold twenty three thousand copies from the music shops of 70s London.

The film is billed as an update of Romeo and Juliet in 90s Notting Hill. (Our very own Queen's Tower appears slap in the middle of the final shot.)

Punk David spends his time shooting pool, strumming his guitar and spray-painting his squat. He falls in love with rich American girl Rachel, who just happens to be playing Juliet at the local theatre. Jealousy arrives in the form of vicious biker Stray Cat. There is fencing with pool cues to the sound of Prokofiev.

Director Mike Sarne's career nosedived in 1970 with the release of 'myra breckinridge', which was about a transsexual film critic and starred Raquel Welch. Eulogized by Andy Warhol and panned by film critics, its fate was sealed. In the punk and the princess Sarne gets away with having his cake and eating it. The film claims to be based on Shakespeare, but in fact this is no West Kensington Story, and the parallels with Romeo and Juliet drawn in Leonard Bernstein's musical don't stand up in this case. Who cares though, when the fly-on-the-wall, hand-held camera style

makes the street banter of David and his mates so vivid and fun. He looks a bit lobotomised in the love scenes but Rachel's lovely, and some of it's very funny. He shows her his diary: "I'll never finish it though," he confides. "...I can't spell." Discuss, with reference to the Bard and the National Curriculum.

Junior is a film about how a scientist (Arnold Schwarzenegger) becomes the first ever pregnant man after he decides to act as guinea pig for his wonder pregnancy drug, Expectane. The film also stars Danny DeVito as a gynaecologist and Emma Thompson as a researcher who has succeeded in freezing human eggs.

Like Twins, which also stars Schwarzenegger and DeVito together, the idea behind the film is too silly for the audience to accept. So it is only the charming performances given by the three main actors which makes Junior a delightful and enjoyable film to watch. Sure, the idea of Arnie in drag in the later scenes probably seems unoriginal after Robin Williams' recent performance in Mrs. Doubtfire but still, it is very funny and shows how successfully Schwarzenegger can switch between action films like 'true lies' and comedy.

Watch in amazement as Arnie's stomach enlarges as the months go by and laugh at his bewilderment as he experiences and learns more about what it is like to be a woman.

Why do I always get saddled with these highbrow art-house movies? My preferred form of entertainment may be an evening of Wagner, but when it comes to the cinema I want car-chases, shoot-outs and lashings of gratuitous kinky sex. (Well OK then, let's not be greedy; if there was enough gratuitous kinky sex I could probably do without the car-chases.)

Actually I ended up with **vanya on 42nd street** by default. In the cinema editor's word association test I was the only one who didn't respond to Chekhov with "phasers locked on, Captain". For this is Anton Chekhov's Uncle Vanya, adapted by David Mamet for theatre director André Gregory.

Louis Malle has filmed a run-through of Gregory's production in New York's disused New Amsterdam Theatre. The action is mostly in close-up, which is disconcerting when Yelena (Julianne Moore) bares her fearsome canines at the camera. While the protagonists are all obviously very committed and the acting first-rate, one is left with the thought that Chekhov didn't intend his characters to be observed from a distance of never more than six feet. And what is potentially a fascinating venue, the dilapidated theatre, isn't sufficiently exploited. It would certainly be a great place for a shoot-out. ⑤



“as a man thinketh in his heart so is he”

Perpetual motion machines may be unfeasible from a scientific point of view but in reality the rumour mill never stops grinding. Will **pearl jam**'s third album, *vitalogy*, be a return to the ethereal strains of 'ten'? No, it will be their punk rock album. No, Eddie Vedder has gone mad and this will be their finale, etc etc. Yet, as usual all the rumours are wrong...

Well, sort of anyway. There are many moments, particularly in the latter half of the album, that do hark back to the gentle, caressing face of the aforementioned classic debut. 'Better man' and 'immortality' both take harsh and agonising subject matter and wrap them up in haunting soundscapes. The latter sees Vedder wearing his heart on his sleeve and poignantly captures his struggle to come to terms with Kurt Cobain's search for true nirvana: "scrawl dissolved, cigar box on the floor / a truant finds home / and a wish to hold on ... truants move on / cannot stay long ... some die just to live."

However, there are also angry, bruising tirades in the likes of recent single 'spin the black circle', 'last exit' and 'whipping'. The former comes as a bit of a shock. A paean to the declining use of vinyl (*vitalogy* was released on vinyl a week before it emerged on cd) and with a riff that could have come from the sex pistols at their most savage, this is genuine 'punk rock'. And I don't mean 'punk' as a tag mistakenly attached to the likes of energetic pop acts like green day. No, this is uncompromising, heartfelt and more importantly superb – a fitting return to Vedder's roots in bands such as bad radio and the minutemen.

At the end of the day, it doesn't really matter what the rumours say. *Vitalogy* is not perfect (tracks such as 'bugs' are too weird even for weirdness's sake) but it is challenging, honest and an organic progression. Not bad for a band with a mad frontman who are about to split up. (8)

Die toten hosen are apparently Germany's biggest band and after hearing their new album, *love, peace and money*, I know why. It consists of their 13 favourite songs translated into English "to give everyone outside Germany some idea of what we're singing about" and a Johnny Thunders cover. This latter track hints at their



musical heritage – punk sleazy sleaze of new york dolls crossed with the riffs of the wildhearts. After listening to this once I found myself singing along clearly a sign of how catchy the songs are.

Their name means 'the dead trousers' and sadly it appears their trousers have died if the cover's anything to go by. But ignore the cover, the music's brilliant! I can't find words to describe how wonderful they are. Shame they don't look good too! (9)

Can you really blame **Joni Mitchell** for having only one idea for her new album *turbulent indigo*? I mean, people do it all the time and seem to get away with it. Unfortunately, Joni doesn't quite seem to have master that knack yet.

Each of the songs begins with a gently strumming guitar (except 'nothing to blame' which has a piano bit first, then a gently strumming guitar). Each song starts quietly, has a quiet middle and, well – I'll leave you to guess what the endings are like. The whole album has a very sedate, laid-back feel which would have been fine, if only the songs themselves were identifiably different. I forced myself to listen to the whole album in the hope that maybe, just maybe, there was something in it that would make me interested. In the end, I was left feeling quite, quite bored. (4)

Rock has its fair share of loud-mouthed frontmen and Kory Clarke, lead singer of American art

metallers **warrior soul**, is up there with the best of them. Their latest album, 'space age playboys', takes a less overtly political stance than their four previous concoctions and this has subsequently led to more relaxed live performances. Not that they are any less intense or heavy than before. If anything, choosing to perform the whole of the new opus in its punk-fuelled, galloping state gave the *Brixton Academy* crowd more of a pummelling than they were probably expecting. No, it's just that the band's ease and sense of enjoyment was patently obvious for all to see. The wonders that removing the shackles of a major label record deal can do...

Headliners **the almighty** have also been doing a touch of record company swapping of late, resulting in their angriest, heaviest and best album to date, 'crank'. They too chose to spew out the whole of their new creation, a move which might have backfired if they hadn't slipped in a few old classics such as the anthemic 'wild and wonderful'. (5)

ⓔ highways revisited

I'm not saying there's nothing else about Imperial, or London, but the **number 10 bus route** is the main feature of college I'll be nostalgic about. I used to live in Hammersmith, at one end of the route, and now I'm in Tufnell Park, at the other end. I particularly liked the way some 10s used to terminate on Prince Consort Road, just outside my department. These little luxuries are important to a girl. Admittedly, I didn't catch the 10 all the time when we were in Hammersmith, mainly because there were a lot more 9s and we caught taxis when we were late (taxis into college – the dedication).

Now, I'd have to beat the larks to get the 10 all along the back roads behind King's Cross, Oxford Street, Hyde Park Corner, Knightsbridge and to the Royal Albert Hall in time for morning lectures. No, I just dream home on the 10, out of peak hours of course. My favourite bit's Kings Cross, which has the wildest scenery – desolate canals and railway tracks – and the maddest passengers, if you were the pompous one explaining bits of Tristram Shandy, could you just go through that again? The scruffy grandeur of the three-storey Camden Road houses comes just before the tat and takeaways of Brecknock Road, and my stop. Oh I love this area, especially by bus. And the 10's nearly always empty by this time, and the conductor chats.

Once I got on a stationery 10, and the driver told me about how he'd almost become a hearse-driver, except the money wasn't good. The 10 was parked outside the Royal Albert Hall waiting for a rogue number 10 driver, Stokesy (Stokesy?), who goes too fast and leaves a backlog of passengers for the next 10, so that they could follow him for a change. This isn't the sort of thing that happens on the 74, for example, a route I loathe. I'll be nostalgic for the hours on the number 10 – fantasising, dozing, scorning Oxford Street, reaching home territory in the dark – for years. (5)

IMPERIAL COLLEGE UNION MEMBERSHIP AND OPTING OUT

Since the time of its establishment, it has been the practice to regard all registered students of Imperial College as members of the Imperial College Union. The same arrangement has applied to the constituent college unions.

There has been no subscription fee charged to the students or their students to secure membership. The college has funded ICU and the CCUs to enable the provision of a range of services and facilities for students – sporting, cultural, recreational etc – and students have been free to use or not use these services as they individually decided.

However, under the provisions of the Education Act 1994 the college is specifically obliged to make provision for students to opt out of membership of Student Unions.

Moreover the college is charged with ensuring that any student who exercises the right to opt out should not be "unfairly disadvantaged" with regard to accessing services and facilities available to the rest of the student body.

In order to comply with this requirement, the college has agreed with ICU that ICU will act as the college "agent" in the provision of facilities and services for all our registered students. The college will continue to fund ICU and the CCUs on the traditional basis so that the normal provision of services and facilities is available to all registered students irrespective of whether they have formally opted out of union membership or not.

The only practical effect therefore of opting out will be that such students cannot stand for elected office or take part in Union elections.

For this purpose the college needs to know and to keep a record of students who have opted out.

Thus all registered students who wish to exercise their rights under the Education Act 1994 of formally opting out of ICU and CCU membership for the session 1994-5 are required to come to the registry (Room 343 on level 3 of the Sheffield Building) by Monday 9 January 1995 (the beginning of the spring term) to record their decision.

P.E. Mee
Registrar.

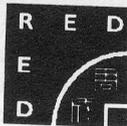
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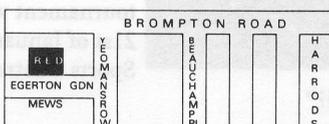
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| C. | spare ribs with wok fried rice and seasonal vegetables | 5.00 |
| D. | Aromatic Crispy duck with pancakes | 5.00 |
| E. | Buddha pot rice (vegetarian) | 5.00 |
| F. | Beef in black beans with wok fried rice and seasonal vegetables | 5.00 |
| G. | Special fried rice (prawn, pork etc.) | 5.00 |
| I. | Singapore noodles (prawn, pork spicy) | 5.00 |
| J. | Hot and Sour fish with wok fried rice and seasonal vegetables | 5.00 |

Take away to your offices is also available



RED 8 Egerton Garden Mews Knightsbridge SW3

Cross Country

ULU Championships at Parliament Hill

An amazing result from the IC/Mary's women, and with six in the top eight, the women dominated the race, winning first and second team.

The men gave a solid performance (team position unknown as yet) and seventh place by **Andy** puts him in with a good chance of selection for the BUSA championships, along with most of the IC women.

Individual Results – Women:

- Jenny Williams
- Jennie Rogers
- Emily Collins
- Kay MacDonald
- Christina Demetriou
- Debbie Hips

Men:

- Andy Overend
- James Tindal-Robertson
- Gerald Johnson
- Joachim Eggeling
- John Bhoyroo
- Oliver Pearce

Badminton

IC Ladies vs Sussex University

On a cold wet December day, the Ladies badminton team trudged to windy Brighton for their first UAU knockout match against Sussex University. With a depleted squad of only 4, it meant that we were 3-0 down before the first shuttle was smashed.

The games started with both sides showing fighting determination. **Barbara** and **Elaine** pushed aside their best twosome after a closely fought first few points. However the match was almost in crisis when the pair, suffering from fatigue, took their second pair to a close 3rd game. **Wendy** and **Claire** stormed through all three of their matches, even though **Wendy** hadn't played for 7 months.

Soon Sussex dropped their heads and their form died. **Barbara** and **Elaine** dealt the final blow with a 15-0, 15-0 trashing of their weakest pair.

Onward to round 2 in 1995, still undefeated.

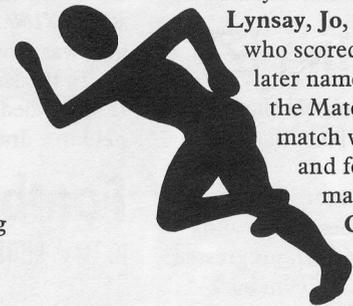
Rugby

IC Ladies Rugby vs Sussex University

10-0 win. Sod off all those who thought that we would never win a match. Well, we can and we did, even if it did take us three years! Congrats to **Lynsey** who scored the first try and **Mel** and **Shuggy** who scored the second. Forward of the match was **Jane** and back of the match was **Emma D.** Well done all of you. We can do it again and again and again!

IC Ladies vs London University

After a storming 10-0 win on Sunday, IC Virgins followed up with another brilliant show of skill. The score this time was 30-0. Try scores were **Shuggy**, **Lynsay, Jo, Mel** and **Cathy** who scored 2, and was later named "Woman of the Match". Back of the match was **Emma B.** and forward of the match was **Caroline**, using her fear inducing technique.



We've done it again!!!

Congratulations to all who played and thanks to the supporters. Keep up the great work!!!

Netball

IC vs Goldsmiths

After St Georges conceded defeat before the match on Saturday, and a win by default on the previous Wednesday, we were keen to actually play a match, although the cold and wet did dampen the enthusiasm. The first quarter was closely contested with both teams eager to make a good start. Goldsmiths were out for revenge for their defeat earlier this season, but IC soon settled and begun to build up a slender lead. A big team change at half time meant that fresh players could continue to extend our lead, forcing lots of inaccurate passing on their part (until we were comfortably ahead). Thanks to everyone who has played this term. Let's try to carry on our eight-match unbeaten record next year!

Squash

IC 1st vs West Sussex Institute 1st

Although we blitzed the opposition to qualify easily, the beginning of the knockout rounds were a far more serious prospect. We headed at the West Sussex Institute ready to do battle and to improve on last year's result by making the second round.

Mahmoud Hussein began well, winning easily, but was bettered by Tony Nolan who managed to win even faster. Sonaar Shah won 3-1, Adam Bettinson 3-0 and our captain/chauffeur scrapped a 3-2 victory.

Basically we creamed them.

Swimming

British Students National Short Course Championships at Darlington

Superb performances were recorded by James Ralph and James Fox, who both progressed to the finals of the 200m backstroke and the 200m individual medley (both are in the top six in the country for both events).

Andrew Westhead narrowly missed winning the 200m butterfly final and was placed 10th. Other notable performances were achieved by Daniel Halls and Mike Young in the 50m butterfly.

The 100m backstroke saw the trio of Chris Davies, James Fox and James Ralph consistently out-perform the other teams.

Boris Schlittgen gave a fighting last 50m sprint in the 200m breaststroke to achieve a personal best time and finished in the top 20. Condolences to Pepe Aparico who would have made the final of the 50m backstroke had he not hit his head on the bottom of the pool!

Finally it should be noted that these performances were achieved on only 2 swimming sessions a week at the Imperial College Sports Centre. What is now needed is more pool time in the build-up to the Long Course Championships in Crystal Palace in March.

Hockey

IC 2nd vs Aldermaston

The winners carried on their ways with three superb goals from leading scorer T100 and guest stars Rent Boy (Jug) and Goran (Jug, thanks).

Rent Boy was noted for his enquiries to a passing pedestrian (filth).

IC 2nd vs St. Georges

An eight goal thriller. We started badly, conceding two early goals before Lardy B**stard got one back.

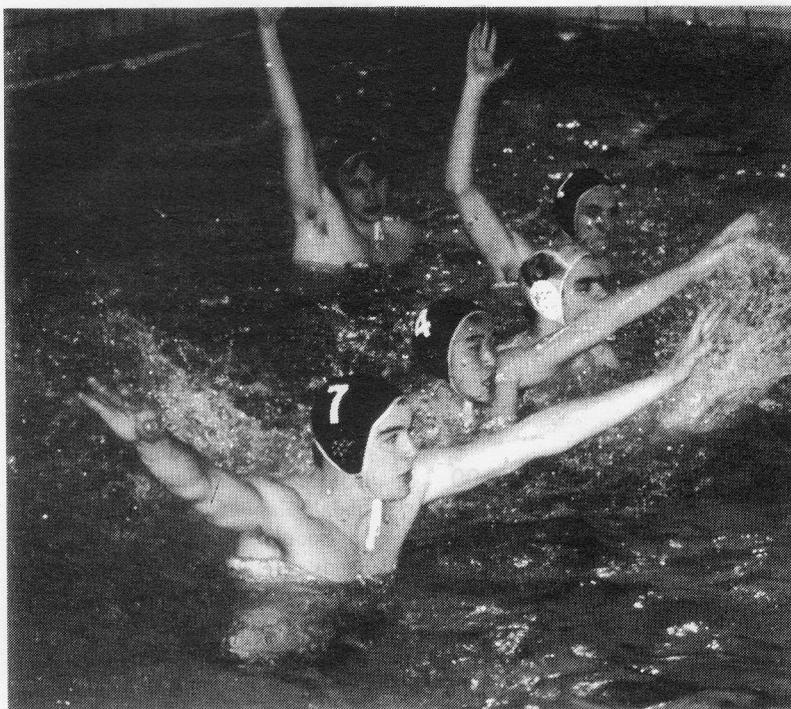
After a brilliant half-time talk we bounced back with two goals to take the lead, one from Dutch Git and one from leading scorer T100. Then a brilliant solo goal was scored by Dutch Git.

In the last quarter of the game IC conceded two goals and were held to a draw.

Football

IC 1st vs RHUL

RHUL, the only other unbeaten team in the Premiership, travelled to Harlington for a rude awakening! IC at full strength (for the first time this season) turned on the style with an impressive win. Ike Ombala



Water-Polo: "All right, who wants the ball?"

Sport	IC Team	Score	Opposition
Football	Mens 1 st	2 - 0	RHUL
Football	Mens 1 st	7 - 2	Goldies
Football	Mens 2 nd	6 - 0	St. Mary's
Hockey	Mens 2 nd	3 - 0	Aldermaston
Hockey	Mens 3 rd	12 - 3	St. Georges 2 nd
Netball	Ladies	25 - 12	Goldsmiths
Rugby	Ladies	10 - 0	Sussex University
Rugby	Ladies	30 - 0	London Uni.
Squash	1 st	5 - 0	West Sussex Inst.
Water-Polo	-	17 - 0	Charing X Hosp.
Water-Polo	-	18 - 1	Westminster Uni.
Hockey	Mens 2 nd	4 - 4	St. Georges

scored both goals, the first on the stroke of half-time. The well organised IC defence was only breached on one occasion which resulted in an outstanding save by goalkeeper Chris Evdemon.

All in all, a great all-round team performance.

IC 1st vs Goldies

The first half was marred by the weather but IC found themselves on top by four goals to one - including a beautiful 20 yard strike from Mike Jarvis. Matteo Farina was substituted ten minutes into the second half due to a severe ankle injury. This change exposed a distinct

weakness at the back but in the end IC came off winners. The highlight of the match was a well taken hat-trick from the Welsh Wizard Tim Lewis.

IC 2nd vs St. Mary's

On Saturday Captain Marvellous (E. Jenkins) scored his first goals for IC with a corking hat-trick during a 6-0 demolition of St. Mary's. The second half hit a standard of play reminiscent of the Dutch '74 side - crisp, clean passing and devastating finishing.

Well done lads, a quality performance and now promotion?

Water-Polo

IC vs Westminster
IC vs Charing Cross Hospital

On Saturday 19th November, we progressed to the next stage of the UAU championships.

Outstanding performances by the talented forward, Theo Papatheodosiou, scorer of eight goals and the two hard men of the team, Stuart 'The Thug' Collins and Daniel 'The Killer' Halls scored ten goals each. The quality and ferocity of the play was such that UCH and Portsmouth University declined to play!!

Many thanks go to Norman Jones of the IC Sports Centre whose superb organising skills made the afternoon a great success. The next stage of the tournament will be held on the 21st of January 1995 at the Sports Centre.