



Three cornered fight for Union Top Job

AFTER SOME WEEKS of behind the scenes negotiations three candidates have now emerged for the presidency.

All three have written special articles for FELIX, which appear on pages two and three of this issue, where they explain the reasons for their candidacy. This is only the second year that the president has been elected by college wide ballot. The victor also gains a sabbatical year, and it seems likely that the honorary secretary will get one too.



Judith Walker — first ever female candidate for the presidency

Up to press the campaigns have been pleasantly notable for their lack of acrimony; which is perhaps unsurprising as all three campaigns are based on the groundwork laid down by president Piers Corbyn this year. They have strong, if somewhat different views on the everpresent questions of diversification, representation, the National Union of Students and the growing confrontation with administration over the Imperial College Representative Council.

Judith Walker, the first ever woman to stand for president at I.C., came here this year to do a post-graduate course in materials science. She was previously at Westfield College, where she was on the Union executive and the N.U.S. secretary. This year she has been closely involved in I.C. Union, working on the Academic Affairs Committee and has prepared a course unit questionnaire for London University. Her platform follows very closely on Piers' lines, and she should receive the overwhelming support of the college left.

Brian Hains, geophysics post-graduate, has been tied up in Union Affairs ever since coming to I.C. One of the student observers at many Governing Body meetings, and on the Finance and Executive Committees, he is certainly as well known and respected by the college administration as any other student in the college. This experience, he feels, should be invaluable in presenting student views to the administration.

John Darley, chairman of the Athletic Clubs Committee, is the least political candidate. But he thinks this should not be a drawback. Although he admits that his main interests lie in sport, his work on council this year on such subjects as Union

Fees and the Quinquennium policy has sufficiently broadened his outlook to enable him to cope with all the problems thrown at the president.

For a strong Union, it is vital that the Officers are representative of the majority of the Union. All FELIX readers are urged to vote in the ballot on 16th and 17th, and also to go to the last Union meeting of term on the 19th, at which the Welfare, External Affairs, and Academic Affairs Officers are elected.

**Remember:-
Hustings in
the Concert
Hall, 12th
March
Polling Days:
16th & 17th
March in
the Union**



John Darley, Chairman of A.C.C.

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Penney - no Political files at I.C.

In a letter to the Union, Lord Penney stated that "It is not, and never has been College policy to keep political information on any student, either centrally, or departmentally."

However, he made it clear both in his letter, and whilst speaking at the Union meeting last Thursday, that confidential files should be received and treated in confidence, unless the writer agrees to his letter being seen by the student concerned.

The discussion on political files hardly came up during Lord Penney's visitation among the rank and file of the Union, most of the time was spent discussing representation on the Board of Studies (BoSt). Showing far more political and debating acumen than any of our redoubtable Union politicians with the possible exception of Brian Hains, Penney dismissed the idea of actual student representation on the Board of Studies, but held out the tantalising offer of definitely allowing a reasonable number of students to raise matters with the BoSt. for half an hour or so before their meetings, but to leave before the BoSt. actually started discussion.

The BoSt. is the highest academic body in the col-

lege. Lord Penney would like to see students and academic staff in an infrastructure working on the many problems arising in the college, including courses and diversification. However, the BoSt. also decides on examination results, repetition of exams and the terms and conditions of academic employment, and on these Lord Penney is adamant that students should have no voice. He also sees no sense in the notion of the Imperial College Representative Council (I.C.R.C.) — being pushed by both Council and the Association of Scientific, Technical and Managerial Staffs (A.S.T.M.S.).

He feels the I.C.R.C. would be unrepresentative, only putting forward proposals decided by a majority vote, which disenfranchises those who disagree with the vote.

All in all, Lord Penney gave the impression of a keen interest in student aspirations and was always willing to consider our ideas. However, he objects to being pressurised and maybe feels that some of Upper Council's "ultimatums" are trying to do just this.

Pinched Pumps

Larceny has struck in the I.C. bars again. Not glasses this time, but bigger stuff — the pumps. Stan Kearns, Southside Barman and Brendan Clements, his opposite number in the Union Bar are both several pumps down but are willing to declare an amnesty so they can be returned.

The pumps aren't blatantly knocked off from the bars, but are lent out to clubs and societies for their various functions throughout the college. Stan reckons to be over two dozen down, calculated over several terms of lending them out. Brendan, in the Union, is two Tankard pumps down, one Tartan pump plus a Tartan cap and some lights stolen outright.

Turn to back page,
Col. 6



Brian Hains, Academic Affairs Officer.

Presidential Candidate JOHN DARLEY speaks. . .

John Darley is a third year maths student and this year has been chairman of the Athletic clubs committee. During the past year he has been an active member of council and has contributed to a number of working parties including the one which prepared the Union Quinquennium policy statement.

This, in particular, has allowed John to get a useful insight into the problems facing the students of I.C. and also into the ways in which these might be overcome.

With regard to particular topics of discussion, such as student representation on college committees, diversification of studies etc. John's views are generally in line with I.C.U. policy. He feels that a great deal of enthusiasm has been generated this year and it is essential that this is maintained in the coming year. It would be tragic, he thinks, if the ideas and aims of the students which have appeared this year, go unfulfilled due to apathy or lack of interest.

Many people will probably feel that John's lack of poli-

tical motivation in the college will hinder him in his presidential duties. It is true, of course, that his chief interest has always been in the sporting rather than political fields, however, he himself feels that his having no strongly directed political views will enable him to consider all the aspects of any problem unbiasedly. John thinks that even more progress could have been made in the changes that have come this year if a willingness, not necessarily to compromise, but merely to consider other points of view had been more evident.

Diversification

The case for diversification has been discussed considerably this year but no clear cut decision of what is needed has been reached. This is obviously because the structure of I.C., with its many different departments, makes it impossible for a general policy to be laid down. The students of some departments, particularly in R.S.M., are quite content with their courses whereas others, especially in the pure

sciences, strongly feel that a more diverse course of studies would be of greater use to them.

As far as student representation on college committees goes the case can best be summed-up by two questions. Are the students on the committee of use to the committee? Are the decisions of the committee of any interest to the student body? If the answer to these two questions is yes then there is obviously a strong case for student representation on that particular committee.

Sabbatical

It is obvious by the activity of the students in the union that the union is in a healthy condition. What is needed next year is a president who will maintain this enthusiasm and use it to greatest effect to gain student aims. John Darley knows the problems. He will listen to suggestions from both sides without bias. He thinks the introduction of a sabbatical year has made the post of president a professional job and looks on it in this light.

Phil's View

With Union elections pending I would like to express the views of a poor student for the consideration of candidates.

I would like to see Imperial College welded into a true unit and get rid of the 'them and us' attitude which is becoming prevalent. If we can meet the policy makers and show them that what we want is reasonable, then I have no doubt that we will achieve a lot more than we would by embarrassing them. Why do we have to follow the sheep who think that we have to fight for everything before it is worthwhile? I believe that we could set a lead to other colleges by creating a truly equal society at I.C. — a place where students staff and governors are working together and helping one another. Separatism can only lead to strife, and when that happens we will find ourselves fighting a running battle where we have little to gain and a lot to lose. A good starting point in a policy of integration is JURGO. This contains the Rector, three governors, the three College Deans, a warden and four members of staff. It also contains the President and treasurer of I.C. Union and ten members of I.C. Union Council. What better way could there be of

getting things done than to discuss them with the people who in the end will implement them?

Union meetings have met with a lot of criticism lately and I would propose that they be conducted in a more ordered fashion. They should be started punctually and should have AT LEAST the President and Secretary of the Union as well as the three constituent College Presidents in attendance, with as many members of Council as possible. Meetings should discuss subjects which are of direct interest to the majority of students, because if I.C. students don't participate in their own Union they will never be given the opportunity to participate in running academic affairs. In other words, let's draw more students and less external politics into Union meetings. Fewer meetings might make people take more notice when they did arise provided that information on current trends could be efficiently disseminated. Perhaps it would be possible to set up a regular Union newsheet for this purpose with established College newspapers running articles on the more important topics which arise.

People — not politics.
Let's have a REAL Union!
Phil Fearnhead

Mines Elections Results

Terry Stephenson was elected unopposed as the new president of RSM. Stephenson first came to IC in 1966 with the misguided intention of doing Mechanical Engineering. After three years, he saw the light and entered Mining II last October.

He believes that RSMU should be apolitical, he intends to preserve the essential character of the RSM but also to expand it by forging stronger links with Institute Francais, Maria Assumpta, etc.

There was however, competition for some of the other posts. Mike Moore was elected as Vice-president, somewhat surprising as George Widelski, the well known successful Hon. Pornographer, stood in opposition.

The elections ended with a revolting display by M. Gowers, the new Hon. Pornographer who regurgitated the beer he had just drunk from his enamel potty!

Paper-Dart Competition

On Tuesday, March 17th, at 1.00 p.m. Aero Soc will be holding the annual Paper Darts Competition, in aid of Carnival, from Tizard Hall gallery. The event is open to anyone who is capable of designing, constructing and launching a dart. The entry fee is 1/-.

Darts may be constructed of paper, cardboard, glue and sellotape only and must be of a recognised dart shape.

The winning dart will be the one which goes furthest, at right angles, from South Side. This dart will be carefully preserved and the winner's name will do down in College history.

The winner will receive half of the money taken, the other half will be donated to Carnival.

The dart at present undergoing final tests in the Aero Hypersonics Lab. is hot favourite but anything can happen in the difficult wind conditions around South Side.

Come along and have some fun. hope to see you there.



I.C. Buskers in 'High St., Kensington

R.C.S.U. Meeting

At 1.15 p.m., 3rd March, as the volume of background noise rose to the level it was to maintain for most of the meeting, John Butterworth read the previous minutes and a letter from Sir Solly Zuckermann, who will not be speaking at the R.C.S. Dinner.

A vote decided that both the presidential election (P. Cunningham 23, R. Abdulla 29, P. Sharkey 140, Abstentions 116, Spoilt papers 25) and those for Vice President and Secretary were invalid, and, after some argument, dates for the next election were announced by Penny Walters; nomination papers 12 to 18 March, listings 21 April, election 27 April. There were complaints about the conduct of the elections; including bad advertising and organising and the

alleged removal of a ballot box.

A general call for the mascot resulted only in the lights being dimmed for fighting, but eventually N. Powell was carried to the front, to say that he had mislaid Theta. During a brief lull in the ensuing flood of suggestions, it was noticed that the meeting had passed to the next business, a motion condemning obscene language at Union meetings, many examples of which were provided from the floor to assist the proposer, but he successfully interrupted them with considerable vocal power. There followed an academic discussion on vocabulary definitions by P. Ferndale and B. Pywell, and, at 2.00 p.m., the meeting finally faded out with two Kangelas.

Presidential Candidate BRIAN HAINS speaks. . .

There are four main areas with which a student union should be concerned. These are (a) to cater for the recreational needs of students, (b) to improve the nature and presentation of their academic work, (c) to encourage students to become aware of the society of which they are a part, and (d) to negotiate with the college administration on behalf of the student body.

The recreational strength of the union resides mainly in its clubs. The only direct contact that many students make with their union is through the clubs. Every effort should be made to channel more money into ACC, RCC and SCC, and to encourage the clubs to realise their full potential. To make the clubs more successful it is essential to have more women and non-scientists around IC, at present this can most easily be done through the USK. Opportunities should be provided in the first week of term to encourage USK people to join IC clubs.

The development of an atmosphere of understanding

and cooperation between teacher and taught is essential for student involvement in academic matters. With active support and encouragement from the students, using the staff-student committee as a base, I feel that many improvements can be readily made if the students provide the initiative. It is vitally important that the power in the departments should be spread more evenly throughout the teaching staff, students can profitably collaborate with the AUT in this. The end result of all these moves would be a much better standard of teaching.

Participation

Students are now eligible to vote. How conscious are they of the issues on which they will be required to pass a judgement? The union must do all it can to make students aware of the workings of the society that they will soon be entering. Ways in which this could be achieved would be through participation in community action projects, and through the NUS. For example, NUS

are forever trying to show how universities relate to the whole educational system, and to the needs they are supposed to be satisfying.

There are many points of current union policy over which there is a deadlock between the students and the administration. It must be remembered, however, that decisions made at union meetings or on the Governing Body are seldom irrevocable. There are some areas, for example, where I feel that if we ask for a little less than what we have been demanding, then we shall accrue several immediate benefits.

In my stay at IC I have been involved with Astro Soc, USK, SCC Exec, Community Action, staff-student committees, and, of course, IC Academic Affairs Committee. I have observed on the Governing Body, Finance and Executive Committee, and have been continually involved with the senior members of the college administration. Backed up with this experience I believe that I can present the students case to the best advantage of the students.

ED Take your Pick and Cast your vote

Your eyes are assailed by posters of every size and description, duplicated notices stare at you from every wall, and information sheets are scattered liberally around the Union and Halls of Residence. The end of the spring term means election time, and all the candidates for Union high office come out in their finery to exhibit themselves for public approval; to persuade you they are the people to turn the Union into a progressive, respected organisation which will best serve the interests of the students whom they represent.

The candidates represent the left, medium left and centre; take your pick and cast your vote, I don't care where. But remember, whichever part of the political spectrum (or degree of fascism in its current use) they represent or are said to represent, their primary function is to represent yourselves. The students union decides policy at Union meetings, which should not be used merely to rubber stamp decisions made by a small group of people at a previous occasion. The Union this year has been livelier and stronger than it has been for a long time, but it has been run by too many people seemingly incapable of understanding any point of view which differs in the slightest from their own, and there are too many Council members who represent not the Union floor, or their departments, but themselves and their associates. You decide who will be on Council, you decide who will represent you there (if you care); so vote when the elections come round for the minor Union posts as well as the exec, but don't be surprised next year if some of the successful candidates seem as intent on pushing their own opinions regardless of everyone else as some of this year's council have been.

This is the last FELIX of the term, and the last under my editorship. FELIX next term will be run by Dave Chant and Ian Williams, who will need contributions from members of the Union to make FELIX as diverse as possible.

I now resign as the alcoholic press-baron of East Durham and go back to trying to pass exams. We still need staff to keep FELIX running smoothly next term, and to learn production and page lay-out in preparation for next term, so if you are at all interested, some and see us in the press room.

Halve the syllabus time

Dear Editor,

I bought a copy of "FELIX" last week. First of all, let me congratulate you on the accuracy of your reporting. I looked very carefully at the three entries devoted to my comments at the last U.G.M. and I could not find anything that I could really take exception to, although naturally I would have liked the emphasis to have been slightly different on some matters.

I had an interesting discussion with Brian Hains, the Academic Liaison Officer of your Union, last week, during which we tried to reconcile our attitudes. If I may make the point, I think your general endeavours to obtain diversification with credit to be given to such studies and representation of the Board of Studies are not the real issues that you should be taking action (direct action, I think you call it) about.

In my view, you should be clamouring for a reduction in your teaching load. The fact is that with the explosion of knowledge in science and technology, the syllabi in the Undergraduate Course have become so overloaded that students really have no spare time now to "improve" themselves. By clamouring for diversification with re-

cognition, all you would do would be to overload the already overloaded syllabus still further, which I think would be the straw which breaks the camel's back, both for the staff and the students.

In my opinion, what you want and what you should be taking direct action about is a lightening of the load on your syllabi. If the syllabus time and content could be halved, you would then have adequate time to diversify and take all the many lectures on such subjects which are already available in the College, some of which could be given credit for in your examination.

I hope you find these comments useful, and I shall be quite happy for you to publish this letter in "FELIX", and I know if you want to shorten it by editing, that I

can rely on you to give a balanced version of my letter.

Yours sincerely,
J. M. Alexander,
Professor.

Looking to the future

WHAT SHOULD BE DONE IN I.C. IN 1970/71?

Piers Corbyn briefly gives his views

When elected the main items in my platform were Representation, Diversification, USK, ULU, NUS, ICRC, 'The involvement of anybody who wanted to do anything' and Promoting discussion and a critical appraisal of Imperial College.

The level of discussion—perhaps the most important thing of all—has increased tremendously this year. This is a direct result of my method and approach.

The ICU Dept Reps have carried discussion into departments but a great deal more needs to be done. The staff-student committees in the department need strengthening and the technicians involved in them to form mini ICRC's. The Dept Reps should report results to department meetings. ICU Dept Reps should be on the BOST.

Effective student power at a departmental level will speed up diversification—specific ideas for courses must be produced before the end of the summer term ready for introduction and discussion in October. Union effort on diversification must go up.

USK is now sufficiently strong to start inter-college diversification. The new USK committee and USK fund need strengthening.

USK is now in a position to exert a clear voice in the London Region of NUS—where the idea of co-operation between groups of colleges can be further promoted.

Judith Walker speaks..

The Union belongs to you.

In the building—music, lights, paintings on the walls?, a wall newspaper?, peace and quiet or happenings? Make I.C. a fun place? It is the students, not just the President and council who should be playing a significant role. Real involvement of students will come about through departments. The president is in a position to coordinate with the help of ICU department reps on council and year depts., the development of department committees to a position of strength.

Departments.

At present most Heads of departments are too powerful, relegating the staff-student committees to a mere consultative role. Communication with staff on course content etc. needs to be continued, perhaps through department open forums. The theme is the gradual transference of power to a new kind of department committee.

Representation.

Instead of accepting the representation dealt out by the college authorities, on their terms, the Union could develop the structure possible through the ICRC and department committees and explore other schemes. Modifying the existing structure, adding a random student, is not enough—but where college decision making committees exist students

must be adequately represented. It has been found at other colleges that when students gain membership of a board the power diffuses elsewhere. BoSt representation isn't sufficient to ensure constructive participation.

It would seem wrong to assume that the admin are there waiting to be approached diplomatically. Their diplomacy has consisted of

—meaningless consultation (Jurgo)
—not taking decisions (BoSt)
—unilateral declarations (AA merger)

We have had to struggle for advances in democracy.

Diversification

It is not just a matter of negotiating on the basis of present Union policy. There is no statement on the means of implementing diversification—one must be formed by ICU out of the departments, evolving from student ideas. There is a danger of getting bogged down in discussions on minor problems unless a comprehensive plan is formed by the students.

Should there be a Liberal Studies department or should diversification develop in departments by initially relating specialist courses to all relevant fields. Postgraduates

must be considered in any programme. Relate research to society?

You want to specialise? A strong flexible course-unit system would allow each student to make his own choice of courses.

USK/NUS

Do psychology at Bedford? The course unit system was also designed to allow inter-collegiate courses within London University. Contact with other colleges must be extended, (it's friendly). USK could be made more vital by introducing joint lectures and courses.

And what about having joint student houses?

USK women in Halls!

Continuing to look outwards—ICs membership of NUS will become more important as both Unions progress. Having been a delegate at NUS conferences I know how valuable the exchange of experiences with other colleges can be. IC could use the background info. provided by NUS in college and department discussions.

During the coming year, the ground that has been gained by the Union must be strengthened and extended. ICU must continue to move forward.



Arthur Lee, leader of Love, who appeared at IC last week. See Felicity for report.

ICU has almost found its feet in NUS so next year NUS issues can be increasingly brought directly to I.C. students.

Coming back to discussion and the corresponding control of your own life. The level of discussion and awareness in I.C. could be greatly increased by having a week of inter-year/department discussions of all sections of the college during the first week of the October term—I will try and arrange for this in the summer. In halls of residence the archaic and ignored rules should be discarded and the power of hall committees increased.

Union finances need re-appraisal. Next year the fight for an increased Union fee must continue but the distribution of finance needs changing (this will probably be done this June at Joint Council). More money must be allocated for Social Clubs, Ad-Hoc Union activities (e.g. the Moritorium), sundry ideas, publicity, expenditure by ICU Dept Reps, and External Affairs. The means less money from elsewhere. The Constituent Colleges seem now to be finding their own new roles so will volunteer to cut their budgets.

Finally, a president needs to be more than a 'nice-guy', or a 'rep-on-council' and he has to do a lot more than have cosy private chats with the staff and the administration (if he understands the difference!). HE MUST BRING ISSUES INTO THE OPEN.

THE NEWSPAPER OF IMPERIAL COLLEGE UNION

News: Dave Chant, Ian Williams, Jean Pasteur.

Features: Tony Sims, James Pinfold, Frances Campbell.

Business: Ian Quarrinton.

Sports: John Darley.

Felicity: John Bowman.

Official Nobody: Tony Kirkham, Esq.

Salesgirls: Jean and Denise.

Assistant Ed.: Mike Yates.

Printed by: F. Bailey & Son, Dursley, Glos.

National Advertising: J.E.P. and Associates, 107/111 Fleet Street, E.C.4. Tel. 01-353-3712.

Published by the Editor on behalf of I.C.U. Publications Board, Imperial College Union, London, S.W.7.

Photos: Simon Hoyle, Malcolm Bailey, Andy Thomas.

Circulation: Felix and Sen-net; Roger Lindsay, with Pete Morgans and Arnold Darby.

Typing: Susan Parry.

And thanks to: John Ackers, John Schofield, Phil Taylor, Mike Muller, Malcolm Williamson, Barry Pywell, John Doerr.

SLAUGHTERHOUSE-FIVE
Or The Children's Crusade
A duty dance with Death
 by Kurt Vonnegut, Jr.

A fourth generation German-American now living in easy circumstances on Cape Cod (and smoking too much), who, as an American Infantry Scout Hors de Combat, as a prisoner of War, witnessed the fire bombing of Dresden, Germany 'The Florence of the Elbe', a long time ago, and survived to tell the tale. This is a novel somewhat in the telegraphic schizophrenic manner of tales of the planet Tralfamadore, where the flying saucers come from. Peace.

And this is a review in the telegraphic schizophrenic manner of the novel. It does not make sense.

Kurt Vonnegut addresses his publisher, Sam: '(The Book) is so short and jumbled and jangled, Sam, because there is nothing intelligent to say about a massacre. Everybody is supposed to be dead, to never say anything or want anything ever again. Everything is supposed to be very quiet after a massacre, and it always is, except for the birds.

'And what do the birds say? All there is to say about a

SLAUGHTERHOUSE
FIVE

massacre, things like 'Poo-tee-weet'?)

In one night Dresden was devastated by Allied bombers, fighting on the side of Light. The City was destroyed in a fire storm which killed an estimated 135,000 people. So it goes.

Billy Pilgrim was a prisoner of war, billeted in a slaughterhouse in Dresden, at the time of the raid. Along with other prisoners, some guards and a few carcasses, he survived. He became a rich and famous sight tester and seemed to forget Dresden. At the height of his prosperity, so he says,

he was kidnapped by beings from the planet Tralfamadore, where he was publicly mated (in a zoo) with the lovely Montana Wildhack, a Hollywood Starlet. On Tralfamadore, he learnt the truth about time and death. So he says.

'Later on, as a middle-aged optometrist, he would weep quietly and privately sometimes, but never make loud, boo-hooing noises.'

Billy Pilgrim has come unstuck in time. Billy is spastic in time, he has no control over which part of his life he is acting. The book follows these jumps, giving it a layered structure in time, and thus the central theme, Dresden, barely described as an episode, looms large.

After the slaughter, one of the prisoners, a drafted high-school teacher, was shot for stealing a tea-pot. So it goes. The shooting party consisted of only four people, because so few were left. So it goes.

Billy Pilgrim's son was all screwed up at school. He joined the Green Berets, and Vietnam straightened him out. So it goes.

The book is funny and sad, bitter and fatalistic. War happens, people die. So it goes. Read it. And listen to the birds: 'Poo-tee-weet?'

RECORD
REVIEWS

MATTHEWS'
SOUTHERN
COMFORT
UNLS 108

Save a few of the big name groups, Matthews' Southern Comfort must have been one of the best acts at I.C. this term. The only difference between their appearance here and this record is the line up, as Ashley Hutchings, Richard Thompson and Simon Nicol of Fairport Convention are included, as is Gerry Conway from Sandy Denny's new group Fothergay.

The tracks vary considerably from the country style tracks penned by producer Steve Barlby, like "Colorado Springs Eternal" and "Sweet Bread" to the only (alas) Richard Thompson track "A Commercial Proposition". This is a very good one which could have been recorded better.

Ian has written most of the tracks—"Please Be My Friend" is reminiscent of the Byrds, but as Ian said "It's not to be taken seriously". Gordon Huntley, the steel guitarist, does full justice to the tune, while "What We Say" features the characteristic guitar playing of Richard Thompson.

STRAWBS
"DRAGONFLY"
AMLS 970

Whenever I've seen Strawbs they've been aided by a 'cellist, so I'm glad to see that she (Clare Deniz by name) has been included on this album as she is now an intricate part of the group.

The title track, "Dragonfly", is used as a symbol to denote the coming of autumn, and I can indeed imagine Dave cloaked in shepherd's mantle on top of Exmoor singing 'I Turned My Face to the Wind'.

'Josephine for Better or for Worse' is a happy-sad song and is one of the best sung ones, and in contrast 'Vision of The Lady of the Lake' is the epic of the record and combines part of "Morte d'Arthur" with some Cousins fantasy.

None of the tracks have the immediate impact of 'The Man Who Called Himself Jesus', but after a while the beauty of each track opens up—just like a dragonfly opening its wings.

JOHN AND
BEVERLEY
MARTIN
"STORMBRINGER"
ILPS 9113

Judy Collins was one of the first to get session musicians to support her, and now a whole stream of contemporary singers seem to be following in her footsteps. Sandy Denny will be soon, and John Martin together with his wife Beverley have done so on this album.

For Beverley, who used to sing with a jug band, this is a record debut—four of the tracks are penned by her. "Sweet Honesty" is an original blues number and "Can't get the One I Want" is a tender ballad (sorry about the cliché).

I'm sure the finished record must have been very rewarding for both of them.

Phil Taylor



John and Beverley Martin

I.C.R.C. and Academic Policy

The Editor,
 Felix.
 Dear Sir,

May I express my thanks, through your columns, for the opportunity to speak on I.C.R.C. during the meeting held Thursday afternoon, 5th March, in the Great Hall, with the Rector present.

There was one question put from the floor by Mr. Hains, and it may also worry other students . . . namely would I.C.R.C. discuss Academic Policy matters. The answer to this is—if the matter was of general college interest, then ICRC would be within its terms of reference to discuss it in a free and frank way, since by definition the matter would be of interest to all.

I personally cannot think of any such matters. All I can visualise is that the effects of an academic policy could be brought to I.C.R.C. Let me give an hypothetical case to indicate my point . . . Suppose it became 'academic policy'

to introduce two shift working for lectures and laboratories, say from 7 a.m. to 2 p.m., and from 3 p.m. to 10 p.m., so that two degree courses were running simultaneously. This would almost certainly be referred to I.C.R.C. to find out what everybody thought about it!

No—I.C.R.C. will concern itself with matters of general college interest, such as financing of universities, college refectories, college democracy and college structure, provision of college technical services and so on.

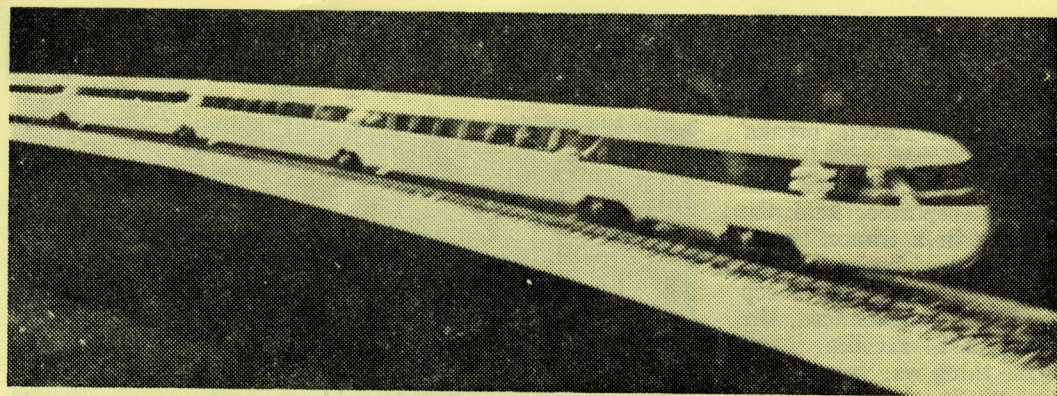
Already from its present short existence some good has emerged, since it has generated a wave of understanding and support for I.C. students throughout large numbers of non-academic staff.

Yours sincerely,
 H. FAIRBROTHER,
 Secretary.

(This letter has been edited)

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 The course commences October 1970 and requires attendance at the University on one day a week for TWO years and the subsequent presentation of a dissertation. Applicants who do not qualify to register for M.Tech may attend the same lectures to obtain a Certificate of Advanced Study. Further details from Professor J. Crank, Brunel University, Uxbridge, Middlesex.



Working on the Railroad

Railway Research in this country is undoubtedly the most advanced in the world, even including the Japanese with their futuristic high speed Tokyo-Osaka service.

The old fashioned railway dictum "it was good enough for my father, so it's good enough for me" no longer holds sway in these days of British Rail. There are now opportunities in railway laboratories all over the country for honours graduates with a flair for original thinking, basic research and for solving the technical problems confronting the day to day running of the railways.

People of all scientific disciplines are needed. Mech-

anical, civil and electrical engineers, chemists, physicists and mathematicians. There are centres at London, Crewe, Swindon, Glasgow and the largest of all — the Railway Technical Centre at Derby.

RESEARCH

A large proportion of research is directed towards efficient use of transport relying on steel wheel running on steel rail. Two new and now highly developed areas of (government supported) innovation are the 'Advanced Passenger Train' and the 'Train Control Project'.

The advanced train pro-

ject is being designed to utilise existing track, unlike the Japanese high speed service, which had special tracks and alignments built expressly for this service. Obviously the British Rail research is a much more fascinating practical idea. The work covers a large field of mechanical engineering with major research being carried out into vehicle dynamics both in the laboratory and out on the track. A new laboratory at Derby will, when completed, contain a range of test rigs for experimental work on the Advanced Passenger Train, and other vehicles.

The train control project is concerned with developing computer aided control of train movements, including scheduling of trains through busy junctions at peak periods, even allowing for traffic disturbances — a problem which can contain some 1040 distinct sequences of train movements! Special train borne computers have been developed to continuously calculate maximum safe speeds, taking into account the relevant track and

train characteristics. All this type of work covers a wide range, electrical engineering science, communication and control, mathematics, computing and ergonomics.

ENGINEERING

Engineering research projects range from the study of fatigue in various materials to the testing of soils in the laboratory under dynamic stress conditions. The fatigue laboratory at Derby is one of the best equipped in Europe, with facilities for applying loads of up to 200 tons. There are also soil-mechanics, metallurgy, concrete and non-destructive testing laboratories involving graduate staff in all the disciplines already mentioned.

In electrical research, a number of new investigations are taking place. Gas-discharge research has led to the development of a plasma torch system for improving wheel-rail adhesion. Computer studies and track trials are under way to develop cheaper systems for overhead electrification. Studies in special instrumentation techniques, commutation of d.c. machines and character-

istics of high voltage insulators is also undertaken. There are opportunities here for electrical engineers, mathematicians and physicists.

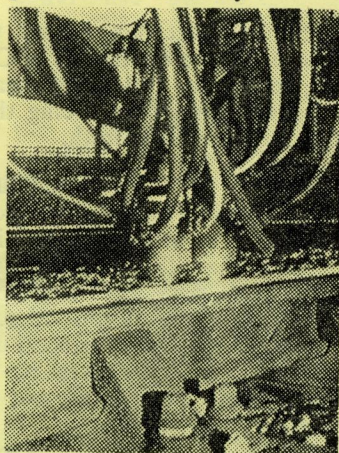
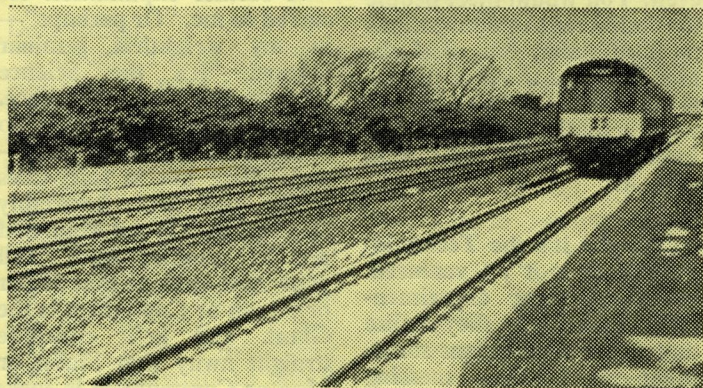
Materials and surface science projects are under way investigating, for example, conductivity of ceramic electrolytes, current collection systems and cell-design studies. The use of model systems of the contact zone between rail and wheel is shedding new light on the stopping and starting of trains.

SCIENTIFIC SERVICES

A day-to-day service to other railway departments is provided by laboratories in Crewe, Derby, Doncaster, Glasgow, London and Swindon, whose staff undertake general analytical work, often allied to quality control, as well as a 'trouble-shooting' service. These laboratories are supported by specialist sections dealing with pest control at Manchester, building materials and dangerous goods traffic in London, and plastics in Derby. There is a central analytical laboratory equip-

ped with a comprehensive range of modern instruments, infra-red, X-ray fluorescence and direct-reading emission spectographs, and gas chromatographs. Electron microscopy (transmission and scanning), electron probe microanalysis and X-ray diffraction facilities are also available.

For all this work British Rail needs graduate Scientists who like variety, have an aptitude for applying knowledge to existing problems, and gain satisfaction from seeing the results of their efforts promptly applied in the industry.



CHRISTIAN UNION SURVEY . . . Results

The Christian Union recently held a survey to determine I.C. Students' religious views. A questionnaire of twelve questions asking views on Christianity, referring to the Bible, Jesus Christ etc. was used and a random sample of almost 3% of students was interviewed (i.e. in Common rooms, departments, places of residence). The results show good correlation with a similar but more restricted survey conducted five years ago with a 13% poll.

54% of those questioned believe there is a god, 16% are agnostic and 30% atheist. There was no correlation between belief and Sunday school attendance, but regularity of Church attendance and Bible reading is affected by, or affects, belief. It is difficult to distinguish cause and effect, but the readers attention is drawn to Q.7 on ambition. Peoples' first reactions indicate much about their character, and it appears that a belief in God is linked with a real purpose

and meaning to life, viz 36% of atheists have a trivial or no main ambition, as compared to 14% believers.

Perhaps most interesting are inconsistencies in peoples' beliefs and actions. A prime example is that, of those who believe in God 55% attend Church occasionally or less and a similar number seldom or never read the Bible. Yet most people accept that, although not indispensable in themselves, these are the places where God does reveal Himself to men. 'How one becomes a Christian' and thus what a Christian really is, brought a great diversity of opinion. It was one question few had considered deeply and some thought totally irrelevant. It is interesting that 82% of people did not think that becoming a Christian had anything more to do with Jesus than perhaps following his teaching. This is directly opposed to the Biblical view, where Jesus is central and those who believe in Him are transformed by Him. Paul said 'If anyone is in Christ,

he is a new creation'. On the other hand only 4% of students were unsure of the historicity of Jesus, and a majority showed a respect for Him, although many obviously found Him a great enigma. Many of these regarded the Bible as a book which contains at least some truth.

As might be expected in a university, a large proportion of students are still considering their beliefs, although it is obviously impossible to quote exact figures from the survey. Many said that they required further thought before being able to answer questions confidently, which might well explain some apparent inconsistencies in opinion.

In conclusion, although some have thoroughly considered their standing, many have not and many answers simply reflect their upbringing. We would be happy to discuss any issues this survey raises and we hope that people will use College to think realistically about their basis of life.

Some of the main results are shown in the chart. The answers to each question were categorised and the percentage in each of the four groups is shown below. The four groups are atheists (A), agnostics (Ag), believers who think God is interested in them (B), and those who don't (NB). This last group is only 8 per cent of the total and thus not statistically certain in its answers, but they do reflect the inconsistencies in one group.

Note: Main question — *Do you believe there is a god?*
 No — 30 per cent; Not sure — 16 per cent; Yes (and He's interested) — 46 per cent; Yes (but He's not interested in me) — 8 per cent.

How do you think a person becomes a Christian?

- a. Act of Faith
 - b. Attitude to Jesus
 - c. Being good
 - d. Indoctrination / arbitrary
 - e. Birth
 - f. Not sure
- In percentages:—A said: a-3, b-35, c-9, d-32, e-7, f-14. Ag said: a-17, b-33, c-6, d-22, f-22. NB said: a-44, d-56. B said: a-24, b-40, c-8, d-16, e-1, f-11.

What do you believe about Jesus Christ?

- a. Saviour
- b. Son of God

- c. Prophet
 - d. Good man
 - e. Did not exist
 - f. Other opinions
- A said: b-3, c-12, d-73, e-10, f-2. Ag said: c-11, d-77, e-7, f-5. NB said: b-11, c-67, d-22. B said: a-22, b-33, c-20, d-22, f-3.

What do you think of the Bible?

- a. All God's word
 - b. Of God
 - c. Good moral teaching
 - d. History/literature
 - e. Others
 - f. Rubbish
- A said: c-32, d-56, f-4, e-8. Ag said: b-11, c-50, d-28, e-11. NB said: b-11, c-57, d-22, e-10. B said: a-10, b-28, c-31, d-14, e-17.

Do you read it?

- a. Regularly
 - b. Occasionally
 - c. Never
- A said: a-6, b-50, c-44. Ag said: a-6, b-50, c-44. NB said: b-45, c-55. B said: a-45, b-26, c-29.

Do you attend Church?

- a. Regularly
- b. Occasionally

- c. Rarely
 - d. Never
- A said: b-6, c-24, d-70. Ag said: a-12, b-16, c-30, d-32. NB said: b-33, c-56, d-11. B said: a-43, b-24, c-17, d-16.

What do think sin is? Something against—

- a. God
 - b. Other people
 - c. Personal conscience
 - d. Other opinions
- A said: a-6, b-47, c-38, d-9. Ag said: a-6, b-61, c-22, d-11. NB said: a-22, b-45, c-22, d-11. B said: a-41, b-33, c-20, d-6.

What is your main ambition in life?

- a. To serve God
 - b. To be useful
 - c. Happiness
 - d. Success
 - e. Trivial
 - f. None
- A said: b-15, c-38, d-12, e-18, f-17. Ag said: b-22, c-55, d-11, f-12. NB said: a-10, b-27, c-39, d-10, e-6, f-8. B said: c-67, d-23, e-10.

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DEEP PURPLE AND FRIENDS — a critical appreciation

The second I.C. Carnival Concert held recently before a capacity crowd heralded the approach of spring with temperatures in the nineties. Was this due to excitement provided by the performers or the atmosphere generated by a small but dedicated band of smokers? The Organgrinders of the event and the Domestic Burper eagerly await your replies, answer (a) for the former, (b) for the latter, (c) for Raquel Welch, and (d) if you would like to attend D.B.'s confessional held every Thursday evening in College Block, at no extra cost.

The concert was started off by Principal Edwards Magic Theatre. First impressions were good, here is

something new; the music of today complemented by visual images provided by slide projection and vibrant human forms. The first numbers were stimulating but as the novelty of the event wore off so the favourable impression died and one was positively relieved when the last note sounded and the last limb came to inevitable rest. Though the light show was, for the most part, good the music was poor and the dancing, with a few noticeable exceptions, was amateurish. A presentation of the most tremendous potential which was put over rather badly; a great idea that with more polish could provide entertainment par excellence.

There followed an explosion, two Tom and Jerry car-

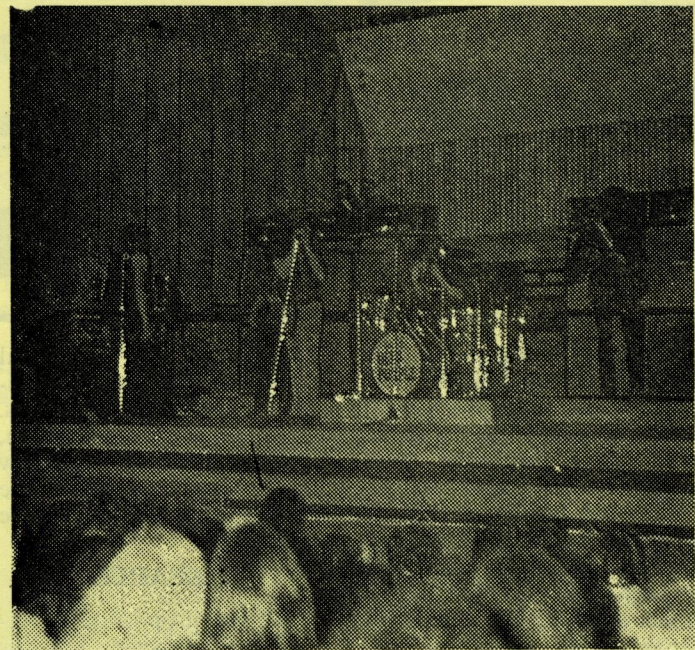
toons, and an interval. One feels it must be pointed out to the Organgrinders of the event what a good idea it might have been if whilst the audience were watching that particular Tom and Jerry cartoon for the twenty third time they, the Organgrinders of the event, might have been preparing the stage for the next group. Alas this was not to be and an intermission extraordinary was duly enacted.

So at last and finally, Deep Purple, though seemingly it was only with reluctance that the Organgrinders of the event dimmed the house lights. What was undoubtedly an excellent performance by Deep Purple for anyone listening was spoilt by several splendid pieces of equipment failure.

During these forced 'breaks' the lead singer, well-known for his devastating wit and amazing repartee, held the audience in a trance. Apart from these set-backs the performance was up to Deep Purple's usual standard, the lead guitarist excelling.

One thing was very apparent from the evenings entertainment, that Albert Hall oriented groups do not appreciate what good acoustics can do given half a chance which is what they certainly did not get. Highlight of the evening; the end.

Seriously, folks, well worth a visit next time (wear something cool and bring some cotton wool), but please Organgrinders of the event let's have the volume down a bit.



Deep Purple on stage

CARDINAL HEENAN AT I.C.

Cardinal Heenan visited the College to give a general studies lecture on the role of Christianity in the modern world. He spent very little time speaking on the subject of the lecture, his main point being that Christians should share the experience of their faith.

Euthenasia

He touched on several topics and spent much of the lecture attacking an article by Dennis Potter in the Times. Of more interest than this was his strong opposition to the idea of euthanasia which he said the humanist lobby in parliament was attempting to introduce. He believed that this would make the doctor an executioner. As the doctors were under the control of the state, he maintained that eventually the state would exterminate not only the old but also the awkward.

Decline

Several questions were put to the Cardinal and he showed much skill in skating the awkward ones.

He said that he thought that religion was on a decline but he believed as a Christian that good would triumph over evil and that religion would survive.

J.D.S.

encounter —

"Oh, the English", my Danish table-companion sighed, "they're so dull, so conventional, so"—she groped for the word—"con-form-ist!"

I sighed in my turn, and waited for "the Es-tab-lish-ment".

"Which English?" I prompted.

"Well, I've not been here long, of course, so I should really talk only about those I've met."

"And they were?"

"Students, mostly. London students. A lot of sheep! Why, you can't even tell them apart—the same clothes, the same hair-do's, and then, when they open their mouths, the same opinions."

"Such as?"

"Oh, they all think it smart to smoke pot and admire just the latest music and art; they all talk about 'the Revolution', and"—this in a crescendo of bitterness—"they all believe in Free Love. Why, even you lot did that!"

I thought of us lot twenty-five years ago — how unutterably boring we must have been!

"But come", I demurred, "they aren't all like that—not even Arts students. Bloomsbury isn't London, you know, and London's not England. They're not like that at Imperial College."

A gleam of hope lit her eye.

"Indeed they're not", I cried, patriotism swelling my sails. "Believe me, at Imperial College you'd meet dozens, scores, hundreds of real individuals, authentic eccentrics, genuine radicals even! You would meet people too indifferent to conventions to flout them, too old-fashioned to care whether they're in the fashion or not—people who actually think it more important to be right than with it!"

"Maybe it's the Technology that does it", I ventured. "Maybe, being experimentalists themselves, they realise that experiment means something more than messing around to see what happens—unlike experimental moralists or artists. An engineer, after all, has standards. If he builds a bridge and it falls down next day, he admits that it was a bad bridge—he doesn't wait to be applauded for an exciting innovation, expressing the Spirit of the Time. He doesn't think of the latest as necessarily the best."

"Do you mean to say", she asked, "that Technologists are more disillusioned than others?"

"No, not that—because when people talk of being 'disillusioned', they usually expect to be pitied. As though one should pity a person discharged from an asylum for losing the illusion

that he's God! Shouldn't one rather congratulate him?"

She didn't take that in. She was gazing dreamily over my shoulder. Still unconvinced?

A further explanation occurred to me. "Or perhaps"—in my weightiest seminar manner—"it's the Science that makes the difference. Scientists, you see, don't so easily believe in fairy-tales—and where but in fairy-tales is the Bad Man invariably opposed by a Good Man, and not by another Bad? Tell your Arts-student that Hitler or Nixon or Capitalism is the Giant, and he'll conclude straight away that Stalin or Mao or Communism is Jack; whereas your Scientist—"

But what her Scientist would do she was never to learn—at least not from me. Abruptly, there was an extinction of lights, a quaking of walls and ceiling. Technologically perfected down to its minutest coil, scientifically amplified to the farthest recess of the cafe, the juke-box behind me burst into dreadful ululation, and my table was deserted. All I could make out in the prancing darkness was blonde locks mingled with black, and somewhere—as the Rolling Stones gathered breath for their second onslaught—a broken sigh: "The Danes! Oh, the Danes, they are so con-form-ist. . ."

Frank Lea

"I'll miss out on the scene where you get killed"

A shot-off gun belt, a pseudo-rape and two men fighting against the whole of The Bolivian Army—perfect ingredients for a great film providing that is: if the acting, directing and photography are good as well.

And how could it fail with superbly cool acting of the now almost middle-aged and sophisticated Paul Newman. His roles seem to suit his age. Remember 'On The Waterfront' and the young tough Newman. Today we have still the tough one, but he's beginning to use his brain and to good effect, viz. his great achievement in directing 'Rachel Rachel'. So much for the ingredients of

'Butch Cassidy and The Sundance Kid'.

Tension

Some of the critics have compared it to 'Bonnie and Clyde', but it's really completely different in approach, style and setting. This is a western not a cops and robbers movie. The essential part is the chase of Butch and Sundance by a relentless marshall, an expert Indian tracker and four of the best shots in the west. We follow them through the beautiful canyons of Utah and we feel the tension mount, climaxing in their final jump to freedom off a 100 foot high ledge, to the river below. We

see them in New York and then in Bolivia and we wonder if they are going to go straight.

Poignancy

It sounds corny, but it certainly isn't. The whole action is carried out with great attention to detail. The last scene is extremely poignant and brings home the futility of it all and makes one think that it was a pity they didn't take their chance when they had it. The movie is summed up by Etta Place (Katherine Ross). "I'll come with you and do your sewing, I'll cook for you, but I think I'll miss out on the scene where you get killed".

Dialogue

The dialogue is both amusing and witty and the photography (Harold Wellman) is imaginative and attractive. It's one of the few westerns in which I have ever felt that I could be living it. Etta provides some charming incidental detail and provides us with a beautiful and stunning sequence near the beginning of the film, when we meet her for the first time discarding her clothes at gunpoint.

Everyone seems to act well, but special mention must go to Paul Newman and Robert Redford as the Sundance Kid. They manage to complement each other and so form a great team under the direction of George Roy Hill.

Chris Lewis

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Sports Felix

Football: I.C. reach finals of U.L. Cup I.C. 2nds 1, Q.M.C. 2nds 0

On Wednesday, 25th February, I.C. 2nd XI soccer team succeeded in beating a strong Q.M.C. 2nd XI in the Semifinals of the U.L. Cup. Played on a heavy, uneven Q.M.C. pitch before a ferocious crowd, the game was fairly even in the first half. The strong wind was blowing Q.M.C.'s way, but they did not seem to be able to take advantage of it, despite strong running by their mid-field players. I.C. played the ball rather slow in the first half, but after half time, with the wind on their backs, the

game speeded up and play went more I.C.'s way. The only goal of the match came from a long through ball from Ives in defence to Willey. Strongly challenged by both the right back and goalie the ball broke loose to the right where Ebbutt, following up, placed the ball in the back of the net.

Play continued running I.C.'s way and only poor shooting saved Q.M.C. from a heavier defeat. However towards the end Q.M.C. made several strong attacks up their right wing, one of

which resulted in them hitting the I.C. crossbar, and it was with some relief that the I.C. defence welcomed the full-time whistle.

I.C. now go on to the final of the Cup at Motspur Park on 14th March against Woolwich 2nd. It is hoped that some supporters will travel with the team for this final game, which promises to be a good one.

Team: Barley, Maslin, Langston, Ives, Ball, Sanderson, Ebbutt, Willey, Richards, Bartlett, Parker.

R. BALL

Hockey: I.C.W.A. win Penney Cup

I.C. women's hockey team brought the Penney Cup back to I.C. after a year's absence by beating Q.M.C. 3-2 at Motspur Park. As the score-line suggests the match was fairly even and, in fact, extra time had to be played.

In the opening minutes I.C. attacked strongly but were unable to score and the first goal went to Q.M.C. following a breakaway. I.C. then looked less sure of themselves and it was almost the end of the first half before they were able to equalise

through Lynne Beynon. However Q.M.C. scored again straight away to leave I.C. 2-1 down at half-time.

In the second half I.C. again had most of the play but seemed unable to equalise until about 5 minutes from full-time when Sue Thompson made the score 2-2. This was the score at the end of normal time so that extra-time of 10 minutes each way had to be played. The winning goal came after Chris Culshaw persevered strongly to score in the

first half of extra time.

Although the team did not play as well as in the semi-final they all worked hard, especially in the tiring period of extra-time and deserved this good victory.

Team: Jackie Buzzard, Sue Edwards, Janet Manfield, Hilary Hutchin, Mary Lewis, Marilyn Diggins, Brenda Dilley, Sue Thompson, Lynne Beynon (Capt), Mysza Paluch, Chris Culshaw. J.C.D.

S & G Club in Snowdonia Rescue

IC Scout and Guide Club took part in a dramatic mountain rescue in Snowdonia last weekend. Eighteen club members went off on one of their regular mountain walking trips on Friday night. On Saturday morning they set off in small parties to attempt the range of climbs, though high winds and low clouds made the going very bad.

It was in the afternoon that the drama occurred. One of the IC groups was stopped in the Llanberis Pass and asked to help in the rescue of two men badly injured near the summit of Snowdon. They helped in the remarkably difficult task of manhandling two stretchers up the mountain. Whilst doing this they discovered the bodies of two more victims, an atomics engineer and his wife. The IC party came down at nightfall and returned to the hut where they were staying. Another party was rapidly formed to help in the rescue. This was not needed, so everyone consoled themselves with a few in the pub across the road.

Editorial

The end of the second term coincides with the end of the season for many athletic clubs and is the time when clubs weigh up their success and failure. The 'Links' Trophy is awarded at the end of each year for the club which has achieved the best results bearing in mind the competition encountered. Strong contenders this year must be I.C.W.S.C. (who won it last year). They have won the hockey cup and also come high in the badminton league. The rugby club, are of course, playing in the final of the Gutteridge Cup (see back page) and have had one of their finest seasons for some years. The men's badminton have gone through the season unbeaten and easily top their league.

I often think that it is a pity that the success of a club is often measured on the success of the first team. This year, for example, the association football club 1st XI were knocked out of the cup and are likely to finish second in the league. Lower down, however, the 2nd XI are in with a chance of both their respective league and cup titles and the 6th XI play in a semi-final replay. This strength in depth is characteristic of many I.C. clubs and reflects the strong sporting tradition of the College.

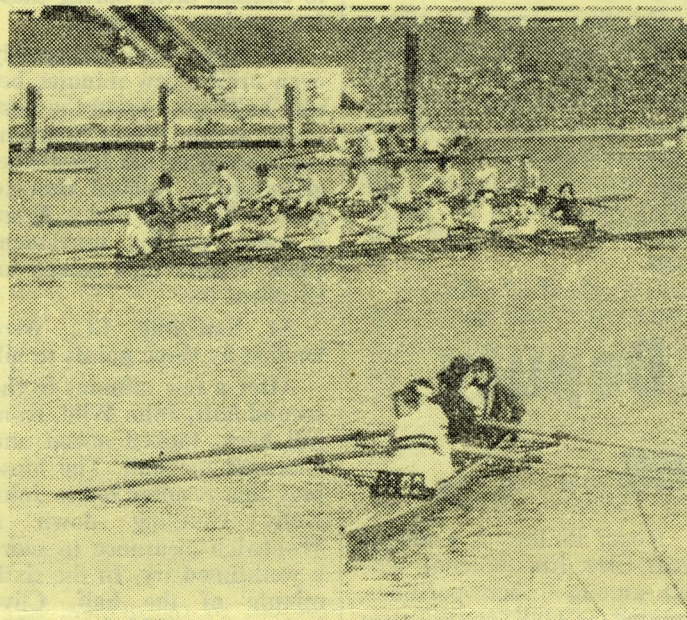
JOHN DARLEY

Rowing: I.C. win Head

After some barren years the I.C. Boat Club is well on its way back to the position of premier college in U.L. By beating Middlesex Hospital, last year's winners, and the U.L. "Tyrian" crew, the I.C. 1st VIII won this year's U.L. Head of the River Race, held over the Boat Race course, thus regaining the "Dixon Bowl".

Creditable performances were made by the other six I.C. entries, and the Novice crew stroked by Hayden Evans was unlucky to lose its division by 4 seconds over the 20 minute course. It is hoped that by the summer I.C. will have complete dominance in all U.L. divisions.

Earlier this season the 1st VIII came 3rd in the Peterborough Head, out of an entry of 33 club crews. Since then all the VIIIs have progressed in their preparations for the Head Races at Kingston and Putney, where there will be strong I.C. entries.



An I.C. VIII in action

Football: Guilds 2, Tech. Cup R.C.S. 0

Guilds having beaten Mines, faced the holders R.C.S. in the final match of the Tech Cup on Sunday, 1st March. In a hard fought match, Guilds put up a fine performance to come out winners by two goals to nil.

From the start R.C.S. put Guilds under pressure but the Guilds defence always looked sound with S. Boyce playing well at centre half, and once the Guilds forwards came more into the game Guilds began to look the more dangerous side. R.C.S. could have taken an early lead with some fine work by J. Kelly, but it was left to Jeff Keer, causing a lot of trouble in the R.C.S. defence, to score with an opportunist shot which was misjudged by the goalkeeper.

The second half opened with some determined attacking by R.C.S. which kept the Guilds defence busy but with Keer and Willey looking dangerous, Guilds looked more likely to score. The goal came from a good run down the line by Peter Willey, who centred and the ball ran dangerously across the area for Mike Knowles to run into and shoot a fine goal, sealing the match. Guilds continued to pressure

the R.C.S. defence and ran out sound winners. The Guilds team, containing eight first years, must be a good prospect for future years.

Teams:
Guilds—K. Hewitt, P. Maslin, R. Gibson, C. Willcock, S. Boyce, T. McCardle, D. Sanderson, P. Willey, P. Bartlett, J. Keer, M. Knowles.

R.C.S.—M. Whitham, P. Worthington, A. Wilkinson, J. Darley, B. Hall, N. Fryer, E. Heap, G. Wellfair, A. Richards, J. Kelly, M. Parker.

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LAMLEY'S

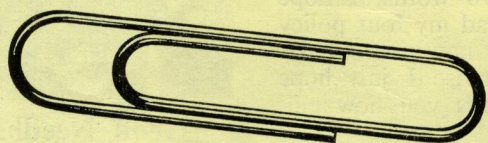
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Carnival Hitch

The results of the phantasmagorical Carnival hitch-hiking race round the capitals of Britain are still a bit dubious, but the winning time is tentatively put at 51 hours 20 minutes, by Steve Bugg.

Hikers from each of the three Colleges set off early on Friday the 13th, and one is led to believe that all returned sometimes between the following Sunday and Wednesday, though one hiker from Guilds has not been seen since.

Steve Bugg, racing to catch the ferry to Ireland, managed the London - Cardiff - Edinburgh - Glasgow - Stranraer whistle-stop tour in an incredible 23 hours, returning via Larne, Belfast, Dublin and Holyhead to arrive in South Kensington bounding with energy (!) on Sunday morning. John McCullough, who organised the race, was second in 57 hours, 59 minutes, after spending Saturday night in the hospi-

ality of Edinburgh police cells.

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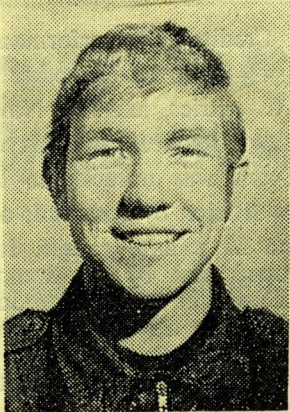
The main Carnival collection this term was held in High Street, Kensington last Saturday, with the backing of the Splinter group (courtesy of Jazz Club). This collection was totally legal, and the brave few, who ventured out in the Arctic conditions, collected a good £80.

The last event of the term, staged for your delight, will be a James Bond film on March 19th, replacing the late lamented Carnival Concert No. 2, which was unfortunately sat upon by a rather large showbiz enterprise.

Our final plea is for strong and willing legs—preferably with bodies attached—for the next hitch-hiking competition, to be held on March 13th. See posters for details and entrants can register with Mike Halhead in the Carnival Office, or through year reps.

* * * *

Amazing Deputy Candidates . . .



Roger Phillips

Roger Phillips is a second year Elec. Eng. student, who is, among other positions, serving as USK co-ordinator on the External Affairs Committee.

He believes that the Deputy President is, above all, a diplomat, who must be capable of working alongside a great variety of people, as well as making decisions independently. It is his aim to make the office more outward looking, and to encourage closer links with the outside world.

Tony Kirkham, a third year physicist, is well known around I.C. for his long association with FELIX. He has held practically every post on the newspaper, and this has enabled him to fully appreciate the running of the Union.

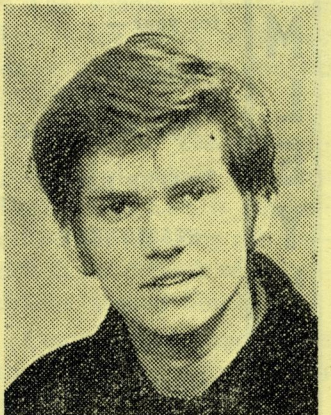
Tony feels most strongly that the Deputy President's job is not a political one, although Tony has views on most aspects of Union policy. He feels capable of co-operating with any of the presidential candidates.

Andy Ward (Civil 2) is a departmental rep. on I.C. and as such has gained valuable experience essential for an officer of the Union.

He believes that important decisions are not made by on the spot judgement but only after rational discussion with well informed people. The Deputy President must be able to discuss important Union business with staff, administration, other students, or his President. He fully supports U.S.K. but feels that the administration difficulties in any such organisation would be considerable.



Tony Kirkham



Andy Ward

I.C. storm to victory in Gutteridge Cup

In heavy conditions I.C. succeeded in defeating Woolwich Polytechnic by 15 points to nil.

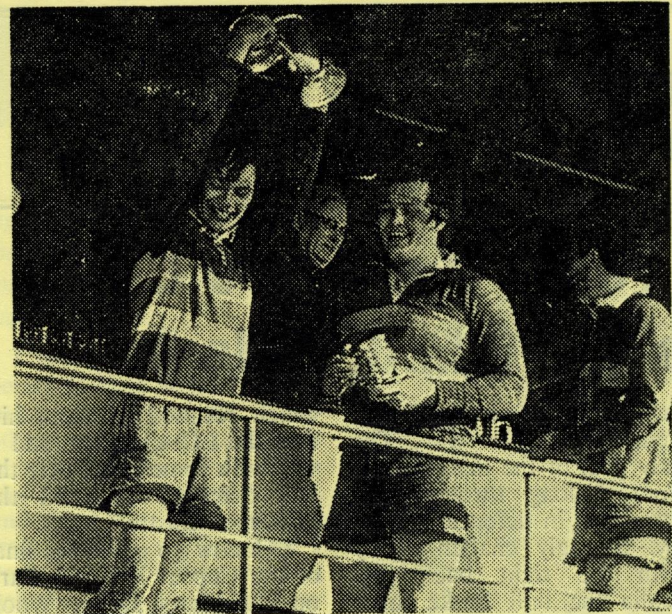
On losing the toss, I.C. withstood a quick assault by Woolwich in the first five minutes. However, with John Ballard kicking out of defence very well, I.C. managed to contain them during these few anxious moments.

The play was reasonably even until a few minutes before half-time. From the base of the scrum, Terry Stephenson moved to the blind side, giving John Ballard time to pass to Keith Devaney. From a quick passing movement Chris Wilson then scored an excellent try.

At half-time I.C. were leading by three points to nil.

After a few minutes in the second half, John Wild, from full back, kicked ahead and collected the ball. The loose play that resulted led to John Kelly charging down a Woolwich clearance to score a well-timed try. In the sixth minute of the half, Clive Swinnerton added another three points from a penalty for a line out infringement.

After a quarter of an hour, Woolwich mounted an exciting attack, but I.C.s. cover defence met the surge with assurance. Woolwich were perhaps unlucky not to score in this period. Woolwich came back at I.C. in the next



Left to right: Mike Adams, George Widelski and Terry Stephenson with the amazing cup.

ten minutes. But after five more minutes I.C. attacked again, with Kip Conolly kicking forward to collect the ball and score the third try. John Wild, playing very well at full back, was constantly kicking ahead to cause trouble for Woolwich. In the last minute of the game, John Ballard gave John Kelly an inside pass to take him to the Woolwich line, George Widelski, following up quickly, forced himself over for I.C.s. fourth try.

With these last three points of the match, I.C. sealed the victory of a very good Cup Final. Congratulations to both sides for providing an entertaining game.

TEAM:
John Wild; Derek Marriott, Kip Conolly, John Kelly, Keith Devaney; John Ballard, Terry Stephenson; Andy Clarke, Andy Powell, Ian Brill-Edwards, Steve Owens, George Widelski, Chris Wilson, Clive Swinnerton, Mike Adams (capt.).

Obituary

This grave occasion was held in the dead centre of College Block a week last Friday. Four hundred or so Poltergists attended to witness the peaceful passing of Carnival, aided by Colosseum, Alan Price and Jeremy Taylor.

Colosseum played with spirit to a receptive audience, an arduous task in a half empty Great Hall. Jeremy Taylor was much better than he is on record; but Alan Price lacked liveliness—probably he was overawed by the occasion—in fact he had just done a stint at QEC a few hours earlier.

As a whole the event provided first class entertainment for £1 a head, but was greatly undersubscribed. Perhaps Julie Driscoll, who was originally booked instead of Alan Price, might have drawn more people: the fact is that Guilds Ents. incurred quite a substantial loss through no fault of their own, for the organisation and publicity and entertainment were all first class.

The loss is even more discouraging when compared with the amount of effort which went into the event, Surely this (and incidentally the loss that RCS Carnival made), suggests that the three colleges pool their resources next year to provide a unique evening's entertainment of this kind.

R.C.S. Annual Dinner

Guest John Dennys, acting president A.A.

Held Tues. 5th May, College Block.

Application forms from notice boards & year Reps.

(Continued from Page 1) More Pumps

No charge is made to the people who "borrow" the pumps, as they are supplied free by the breweries. But obviously there can't be an unlimited supply and the breweries begin to stop when too many go missing.

It seems difficult to believe that pure absent-mindedness can account for the loss; after all, a pump is a pretty hefty object with attached CO₂ cylinders and myriad tubes for the beer.

The amnesty will last for quite a while, but further action will have to be taken if they are not returned. The people to suffer will eventually be the clubs themselves, as soon there just won't be any pumps to lend them.

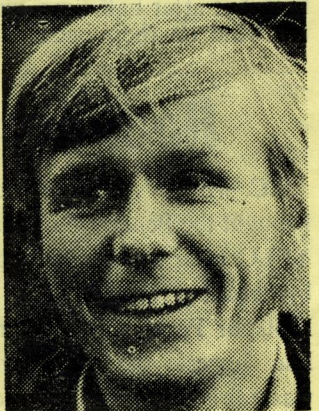
. . . and for secretary

Pete Woods (Physics II) is at present the Union Welfare Officer, in which post he has been concerned with every aspect of the College.

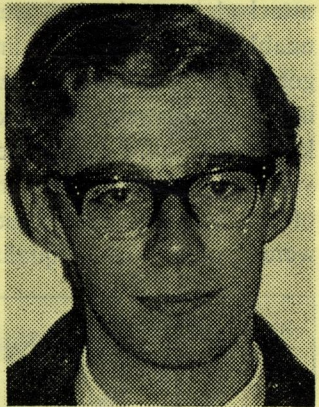
Pete feels that the need for a strong secretary, who is prepared to enforce the Union Constitution, has been vividly illustrated at recent Union meetings. Pete believes that more could have been achieved on Diversification and Representation with a more tactful and mannerly approach, as he himself demonstrated as a Welfare Officer.

Geoff Needham writes:—

Although it's natural for election candidates to make meaningless and superficial statements, this year they seem to have made a determined effort . . . "Candidate for the Centre" . . . "more money for Clubs" . . . "Tactful negotiation". All too easily said. Because I can do no better in 70 words, I hope you will read my four policy statements now in circulation. Otherwise I just hope someone tells you how efficient I am!

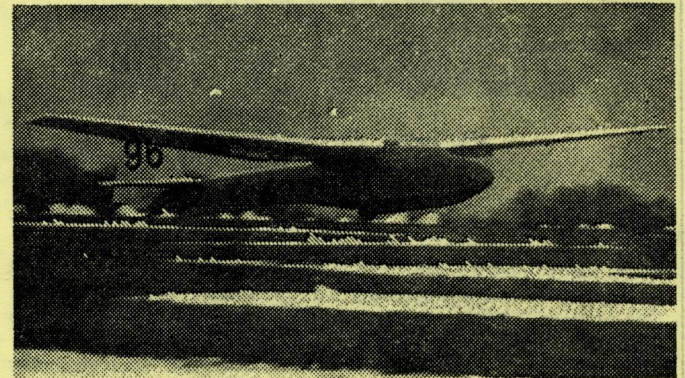


Pete Woods



Geoff Needham

Gliders have new baby



The Eagle coming in to land the right way up.

The Gliding Club soared into action again on Saturday. The weather at Lasham made the gliding excellent and there was an expectant air on the ground. The new baby, a 430 lb. 40 foot wing-span German single-seater, was nearly assembled by the afternoon and the members

are looking forward to flying it. The pilots of the tow-planes work overtime to keep gliders in the air and since there are so few members plenty of flying time is had by all at a fraction of the expense you would think, so do not leave all the fun to them!



FELICITY



The **FELIX** Late News Supplement

12th March 1970

WHO FOLLOWS JONES?

Well publicised rumours that Professor Hayman, professor of Pure Mathematics at I.C. since the mid 50's, will be the next Head of the Maths Dept. seem to have grown without too much basis in fact!

The vacancy has occurred as Prof. Harry Jones, present Head of Maths, is to become Pro-rector in October and perhaps sooner following the death of Lord Jackson.

Several weeks ago a meeting of the professors in the Maths dept was unable to decide on who should succeed. At a later meeting with Lord Penney the idea was mooted of having a 'rotating chairman'(!) of the Maths dept with no-one Head of Department. There was apparently some disagreement over this idea and Lord Penney asked that the profs individually let him know by letter who they thought should get the post. Prof. Hayman seems not to have been the unanimous choice.

Prof. Hayman acted as Head of Dept. in Prof. Jones absence last year and has been at I.C. longer than the other profs in the Maths dept but his elevation to greatness no longer seems certain.

Buckminster Fuller Speaks

At the first joint RCA-IC General Studies event, the Great Hall was filled with large numbers of both RCA and IC students in order to listen to Professor Buckminster Fuller.

Fuller described himself as an average person, and had no time for geniuses leading the mass of people. Every child is born with tremendous powers, but they are stunted as he grows up. A genius manages to protect his talents and develops just what is inherent in everyone.

Henry Ford, by using and exploiting the new materials that had been developed in the first world war, may have earned the description of a great artist of the twentieth century, seen by later generations. He was the first person to fully realise the potential of twentieth century technology.

Technology is not something to be afraid of as 'unnatural'. Technology is the process of adapting the environment for man, but specialisation prevents an overall view from being taken, with bad results like pollution.

How did specialisation come about? Well, a militarily strong figure in history would subjugate weaker but talented people, and they would work for him by making swords or translating a language. As these persons aged, the king would need new servants and would tell one person to make swords and another to translate. "And that's your educational system." (Applause)

A message to people? If you need to do a thing it can be done.

Darwin proposed the doctrine of the survival of the fittest. The fittest are the most adaptable, and man has shown himself to be eminently adaptable.

HUSTINGS

for elections of President, Deputy President, and Secretary.

ME 220, 2.00pm TODAY

First lecture in afternoon cancelled.

COST OF A STUDENT

The "Education Programme" on BBC last Sunday comprised a discussion in which the chair pressed the following points: that there is a great anomaly between the financial support for a student in a University and for one in another institute of higher education, and that this anomaly may be removed by introducing a "comprehensive" scheme and spending more money on higher education at the expense of the Universities.

My answer to this argument is that...

It is true that more money is needed for non-university higher education on the grounds that it caters for more students, but NOT at the expense of University education.

The reasons lie in basic economics. The amount of money spent on educating a student should be related to the financial return, which may be measured as a function of:-

- (a) his contribution to the country in his future employment
- (b) his contribution to the advancement of technology.

The greatest advances in research are made by groups of people with similar specialist interests, where expensive equipment may be used with maximum return on capital investment. Should these groups be 'diluted' and ultimately destroyed by a comprehensive system where one institution comprises many types of college, research will suffer.

Students are the most able to diversify their interests. Instead of concentrating on this sector, less money could be used to better advantage by diversifying the interests of the whole population, while preserving the academic specialisation of our universities. The best means for this would be a more academic and open mass media system. Surely it would be cheaper and more efficient to extend this mode of diversification to all and not concentrate on the sector most able to broaden its interests.

C.M. ROBINSON.

For reasons of space this letter has been shortened. Editor.

* FilmSoc gives a special film show in aid of Carnival next Tuesday starting at 6.30 in the Concert Hall. There will be showings of "The St. Valentine's Day Massacre" at 6.30 and 10.40, and "Thunderball" at 8.20 and 12.30. The complete program lasts 4 hours with proceeds to the Carnival charity.

JOOLS AT I.C.A.

One day, Julie Driscoll is going to go to a gig, start talking to the audience and everyone is going to forget that she came to play music. She is such a beautiful person and is so full of the joy of life that one could just sit back, listen to her and absorb some of her sunshine. She radiates the same good feelings as a bunch of children playing together in a sandpit without anyone looking after them.

The combination of her personality and her looks ensure that, even if the music she made was terrible, people would still come to see her. There is no question of this though. In addition to her other assets, she also has that tremendously powerful and controlled voice that allows her to range from the haunting 'Season of the Witch' to her full-throated version of 'Wheels of Fire'.

At her appearance at the ICA in Feb., the first in London for a long time, she showed that she has lost none of her talent and has been developing musically in the interim. Her set included an unaccompanied song, a few songs for which she accompanied herself and some with a group composed of ex-members of the Blossom Toes, these last being heavy enough to keep all but the most demanding satisfied.

It would be nice if IC Ents could get her along to a hop - if only to show some of the people here what she means by her philosophy of 'getting high on life'.

IC ENTS PRESENTS

Sat March 14th, 8.00 pm.

LIVERPOOL SCENE

JODY GRIND

ICWA FORMAL

FRIDAY MARCH 20th COLLEGE BLOCK

Dance - Disco - Cabaret - Gasworks
and Saffron - Bar extension to 2 am.

TICKETS: £4 double (dance only 15/-)

You, The President, Negotiations and all that

Some of the election candidates are saying that next year they want to 'talk' and 'negotiate' etc... I don't think people are very clear of what the candidates mean, but the implications of what they say are that :

- i. This year there has not been 'talk and negotiation'
- ii. The Union has been 'too militant'.
- iii. The President has been 'too militant'.

Well, dealing with these in turn i. I have spent a very large amount of time every week of the year talking and negotiating with the administration and have successfully negotiated for instance, money for ICU to join NUS, money for a sabbatical year for the President, an increased salary for the Union Clerk, representation and many and various committees etc... there is more to come!! (Union fee etc). This negotiating requires a great deal of specialist knowledge and know-how. NUS and other colleges are involved in providing information, and the President must know how to get hold of the information.

Further I arranged for, and encouraged, departmental representatives and the Academic Affairs Officer etc., to talk and discuss with academic staff. I have also had discussion meetings with academic staff, even though this is not the main job of the President (he has not got time) - the Academic Affairs officer concentrates on it.

ii. It is for the Union to decide what it does - not for the President to veto its discussions - either this year or next year!

iii. Anything 'militant' I have suggested this year has always been approved by Union (or Council)... which brings us back to ii. !

Of course the President can initiate some action and I have done so. For instance, it was my personal decision (later applauded by the Union) to distribute copies of the June Board of Studies minutes, which embarrassed the Professors who had spoken strongly against student representation. I am certain that this action greatly speeded up the normally very slow discussion in academic circles, so the moderate Professors have now spoken and the Board of Studies had 'decided to decide' on representation instead of deciding against again. We also furthered the cause of junior staff who are now better represented on the Board of Studies, very largely due to the Union's efforts.

If we had not distributed the embarrassing minutes and so forced a great deal of public discussion, we and the Junior staff would be where we were back in June. Similar successful actions took place this year e.g. Moritorium, Refectory Boycott. Similar actions will almost certainly be necessary next year. So the Union must have a President with the political know-how to be able to decide when to initiate such activity and action and how.

This brings me to a general point about community discussion and negotiation. It is the mark of a healthy community that there is extensive public discussion. Public discussion in IC is this year higher than ever before. This public discussion is effectively generated by action and activity and contributes in an absolutely vital way to the backing of anybody (e.g. President) involved in negotiation - it has greatly helped the Union this year.

Next year, if the Union stops moving, discussion will stop and negotiations will fail.

Politician The President of the students' union - now a sabbatical post, is a highly political one - and can never be anything else. Members of the Administration have generally had about 30 years of political experience (in administration and organisation of people and policies etc). The Students Union President must have the political know-how and contacts to effectively discuss and negotiate with them. I have about 4 years of political experience (some of it outside I.C.) and have found it very useful.

The point of this is that there is far more to negotiating than cosy discussion - it needs political adeptness and know-how! Also the President needs to be something of a politician in the great number of discussions, negotiations, and persuading he will have to do outside Imperial College (NUS, Press, Other Colleges, ULU etc).

Personalities

Now there is the point that there is a small group of administration and professors who oppose Union policy, both in aims and activity and have not infrequently 'attacked' and attempted to discredit me personally, in discussions with others. Well, they have their right to do this, and of course, they will do it to ANY PRESIDENT who effectively puts forward Union policy with which they disagree (e.g. on Diversification and Representation etc.) They might not attack a president who does not put forward Union policy - but that is not much good for the students is it!

THE PRESIDENT OF THE UNION IS THE PRESIDENT OF THE STUDENTS UNION!

ELECTION HUSTINGS AND UNION DEBATE TIMES CHANGE - LECTURES CANCELLED

At the request of the President, the Rector and Deans kindly agreed to CANCEL THE FIRST LECTURE ON THURSDAY AFTERNOON SO THE DEBATE/HUSTINGS TIMETABLE WILL BE AS FOLLOWS.

- 1 p.m. (not 1.15 p.m.) to 2 p.m. Union Debate (Loans vs Grants with Jack Straw) Mech. Eng. 220
- 2 p.m. (not 1 p.m.) to 3.30 p.m. Union Election Hustings (Interrogate and Expose) Mech. Eng. 220

PRESIDENT, SECRETARY, DEP. PRES.

ELECTIONS 16/17 March - MON TUES

10am - 5pm.

Bring Union Card → (ESSENTIAL) to Ballot Boxes

Southside

Union

College Block

DEPT. REPS. - IN DEPARTMENTS

WED. 18th March.

RESULTS THUR 19 at UGM (External, welfare + Academic Officers elected there also)