



FELIX

**FREE VOTE
FOR THE
PRESIDENCY**

The two points of view

BONDI
on COSMOLOGY
RELIGION
and EDUCATION

4d WEDNESDAY, 23 FEBRUARY

1966

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I C TEAM WINS QUIZ FINAL

HOT ON THE HEELS of the announcement that IC has won the recent BBC World Services series "Quiz International" comes the news that the Corporation intends running a second series of the programme.

Recording is to start to-night when IC plays LSE at Piccadilly studios at 6.45 p.m.

In the final of the first series IC beat UC by 37 points to 31 to win the series. The College had won through to the final by beating the then league leaders LSE.

Darshan Pandya.

Carnival Queen to come from ICWA

THIS YEAR'S Carnival Queen will be elected from ICWA only, if their President, Jane Caudwell, has her way. In order that the Carnival Queen should be "someone," and not just a set of vital statistics, by the time of the Carnival, it is proposed that she be elected this term.

The Carnival Board will select twelve girls from the entries, and these will have their photographs in FELIX and in the Union. Four finalists will be chosen by means of voting slips in FELIX and the Queen will be elected at the ICWA Formal on the 25th March.

Only in the event of there being insufficient entries from ICWA will secretaries and other staff from the College be eligible to enter.

The closing date for entries is 28th February.

BARS CLOSE EARLIER

THE COLLEGE Bars, as no doubt regular patrons will have noticed by now, are closing five minutes before the scheduled closing time. The Refectory Office tell FELIX that permission has been given for the barmen to leave five minutes early for the duration of the London Transport busmen's go slow. It is to be hoped that patrons of the bars will co-operate with the barmen and bring their normal drinking schedules forward five minutes to enable the staff to catch the last bus home.

Blackett to speak

PROFESSOR Blackett, President of the Royal Society, and Senior Research Fellow at IC, will be guest speaker at the Royal College of Science Annual Dinner on Monday, May 2nd. RCS hope that Quintin Hogg will also be able to be present.

Professor Blackett is to receive an honorary D.Sc. from Hull University in July.

Freedom bid by

Record-breaker



EDINBURGH'S record-breaking win in last Saturday's Hyde Park Relay is completed by last-lap man Fergus Murray who represented Britain at Tokyo. Murray returning the second fastest time of the day helped Edinburgh to break the record (by 1. min. 29 secs.), chased home by Borough Road at the front a field of 85 teams. The whole event was organised by IC Cross-Country Club report page 11.

Churchill crowns lost

A RESIDENT of Beit Hall had a wallet stolen from his room some time last week; it was returned to him a week later, minus the cash (four Churchill crowns), having been found in one of the ladies' lavatories in the Royal College of Art.

MORE TROUBLE FOR PHOENIX

THE NEXT issue of PHOENIX, IC's literary magazine, will not appear until early next term. Originally scheduled to appear this term, the delay has been attributed to the failure of contributors to supply copy and not the considerable loss made on last term's issue.

Editor Mervyn Jones blames an exceptionally high printer's bill and a poor response by advertisers for the loss on the last issue. He has again appealed for "more material and staff" for next year.

G.W.

Ed: We are told that most College magazines are having difficulty in obtaining advertising.

SCC

Greater freedom for Social Clubs Committee from the control of Council is proposed in a motion to be voted on at the next meeting of SCC.

The motion, proposed by Pete Ruhemann, Chairman of Communist Society, if accepted by both SCC and Council would provide that the SCC be able to alter its own standing orders—provided the powers of neither Council or the IC Union Executive are affected.

Social Clubs Committee

The present situation is that any change in the Standing orders—the set of rules by which SCC governs its affairs—has to be presented at one meeting of SCC and Voted on at the NEXT meeting, and then, if it receives a two-thirds majority, it is passed on to the approval of Council. This means that even the most minor change can take up to six weeks to put through (Council only meets monthly), and the situation naturally arises where Standing orders may clash with present procedure, or make no mention of important aspects of SCC's operations.

The proposed change would mean that alterations in Standing Orders could be passed by one SCC meeting (needing a two thirds majority), and would become operative after seven days if no petition had been received from four members of SCC. If a petition were received, the motion would need one more reading before SCC to take effect. Only if the "powers of Council or the ICU executive" are affected would the change have to appear before Council.

Deputy President, Chris Molam and ICU Council member Pete Finch both felt that the proposed changes were a sensible move, Molam commenting "there is an awful lot of deadwood . . . and this would streamline matters on smaller things," but both Council members felt that ICU executive should decide whether or not they (or Council) were affected (Exec. meet weekly) Finch suggesting that Council be notified. Chairman of SCC, Keith Guy, who also sits on Council, told FELIX that he had himself suggested that changes proposed by SCC should need the assent of Executive, but otherwise was wholeheartedly in favour of the motion put forward by Ruhemann.

Einstein editor

DR. G. J. WHITROW of Mathematics Department will be acting as "general editor" of three weekly programmes on Albert Einstein, to be broadcast at 8.35 on Wednesdays, in the Third Programme, starting to-day, 23rd February.

Foreign Affairs

selected by Paul Smith

rele.....

One of the Halls of Residence at Keele has had a telephone placed in a lavatory. The Hall Committee quote "this is neither convenient nor hygienic, and we recommend its immediate removal."

cold down south

Over two hundred students at Southampton University have taken part in an experiment which may help to combat the common cold. This is being conducted by ten private firms to determine what part, if any, vitamin C plays in the prevention of colds.

the old story

There has been friction between the students and catering staff at Bristol University. After complaining that the food was not fit to eat and was too expensive, some students insulted the staff, causing some of them to threaten to resign. The President said that he was furious at what had happened, and could not understand why some students had to indulge in this kind of behaviour.

population control?

The Hull SRC have passed a motion to allow contraceptive machines into the Union. Negotiations are going ahead to get the local Health Centre to give the necessary advice to students.

pigs

Worcester College (Oxford) Junior Common Room has passed a resolution to buy a pig and allow someone to keep it. The JCR Secretary said that its function would be to dispose of College meals.

tea losses

A new Steward has been appointed to run the Chesham, the King's College Union, after a loss of £239 on bar sales. The relation of gross purchases did not tally with gross sales and discrepancies had been found in the tea/coffee machine.

obitcolour

The Observercolour feature on IC will now not appear until May at the earliest, if at all.

Gilbert and Sullivan Success

Pinafore pleases

FROM MONDAY to Friday last week, I.C. Gilbert and Sullivan Society performed the double-billing of "Trial by Jury" and "H.M.S. Pinafore," the cast being ably and charmingly completed by women from the various London music colleges.

On Wednesday, the near-capacity audience was particularly quick to show its appreciation of the lively, entertaining and very capable double-performance. In "Trial," Frances Gregory (the Plaintiff) and Jack Hopkins (the Learned Judge) were especially good, and the amusing antics of the cast as a whole served as an excellent hors-d'oeuvres for the main course "Pinafore."

The Orchestra gave a most accomplished performance of the overture of "Pinafore" under the direction of Robin White (an ex-I.C. man now at R.C.M.!) but they were a little too sedate at times for the boisterous atmosphere necessary for "Pinafore."

Offstage noises, a swaying backcloth and inconsistency of accent (particularly in the case of the boat-swain) detracted somewhat from an otherwise polished performance, in which the three principals singing "Never mind the Why and Wherefore

..." received the encore they deserved. Chris Hocking (Dick Dead-eye) reached his villainous best in "The Merry Maid," whilst Susan Browne (Josephine) gave the best performance of the evening, showing both the flair for comedy and the voice required for a Gilbert and Sullivan leading lady.

As is usual for G. & S., there had to be a happy ending, and so it was that Catherine Robinson (Little Buttercup) brought the performance to its close, by revealing the truth concerning the births of Captain Corcoran and Ralph Rackstraw just in time to save Ralph from the cat o' nine tails and the curtain falls as the six principals make the plans for a triple wedding.

J. P. Poyser and D. J. Snodin.

despite
lack of publicity

Notice-board review

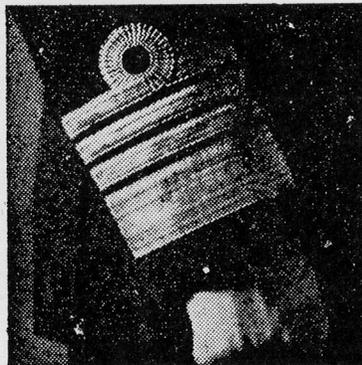
ALL Recreational Clubs Committee notices may be removed to Southside next term. This is one of the possible solutions to the problem of notice-board space in the Union, suggested by Council member Pete Finch, who is carrying out a full investigation of the problem, the findings of which will be put before the next Council meeting.

Basically, there is not enough notice-board space in the Union, nor is there enough space to extend the existing boards, and further ones must be introduced into Southside. It has not yet been decided exactly which clubs will be moved; it may be the whole of SCC or RCC, or a part of each, but it is unlikely that ACC will be moved out of the Union since it has stronger connections with the Union (bar).

Other recommendations will be that events boards covering a whole term should be put up in the Union and Southside, that there should be a map of the Union and the College in the Lower Lounge; that there should be more signposts and door labels (Ladies, Men only, Press Room, etc.), and that messengers should be instructed to remove all notices which have not been approved by the Publicity Officer

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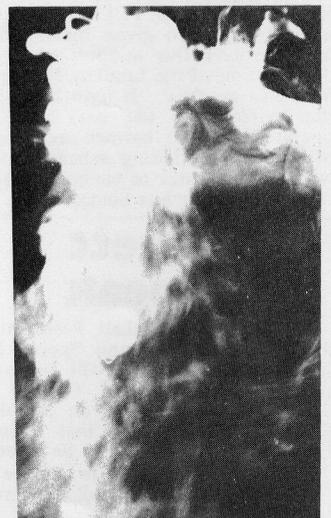
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Royal Navy



Life is like a sewer

"What you get out of it depends on what you put in!" This quote from Tom Lehrer was Dr. R. W. Edwards' parting remark at his talk to the H. G. Wells Society on Monday, February 14th, and epitomises the lively style which he used in his interesting talk on "Water Pollution Problems in Britain."

With most of the rainfall in the north and west, and the lack of any national grid for water, the south-east centres of population are using water as many as three or four times before it gets to the sea.

There is a certain unpleasantness about the idea that the water one drinks may also have been drunk by three other people, but it is some compliment to the effectiveness of sewage processes that we cannot tell—in this country at least!

At a conventional sewage works the incoming sewage is ground up, then settled, and the liquid is decanted off and sprayed on to filter beds where a variety of micro-organisms oxidise organic matter, and most of the remaining solids are filtered off. A tertiary stage using alum to precipitate phosphate and chlorination is sometimes used.

The sludge is one of the worst problems, being difficult to get rid of, especially in industrial areas where it absorbs an incredible amount of chemicals, which render it useless as a fertiliser.

Detergent pollution has caused some concern, but it has been found that straight-chain alkyl benzene sulphates are more easily broken up than the usual branched-chain variety. An experiment, substituting the better variety in Luton (still under the usual brand-names—it's the same stuff in all the boxes, anyway), was so successful that the experiment was extended to the entire South of England.

Many of the worst pollution problems are at coastal resorts where the sewage is poured straight into the sea. Fortunately, light and warmth kill off the harmful bacteria quickly, and Dr. Edwards was of the opinion that people who bathed on cold stormy days with an onshore wind either deserved what they got, or were hardy enough to resist the extra bacteria!

Presidential stakes

CANVASSING for the post of IC President has taken place in earnest following the editorial in the last issue of FELIX. Leading the Presidency stakes some yards from the starting grid is Keith Guy, SCC Chairman, a short head in front of Dai Howell, President of Guilds.

At present trailing, but looking very fit, are Chris Molam (ICU Deputy President), Keith Cavanagh and Council-outsider Ray Phillips.

★ ICWARIUS.

Aetherius Society

THE IC Aetherius Society Group has withdrawn its proposed constitution, which was due to be discussed at last week's meeting of the Social Clubs Committee. A new constitution is being worked out which will have a greater emphasis towards SCC and less toward the national Society, and will be presented later in the term.

Shadchan evening

SHADHAN IS A YIDDISH word meaning 'matchmaking' and this was the basis of an informal party held at Chelsea College on Sunday 13th Feb.

The evening was organised by members of Imperial, Chelsea and Battersea Colleges' Jewish Societies, but the entry was not restricted to students only.

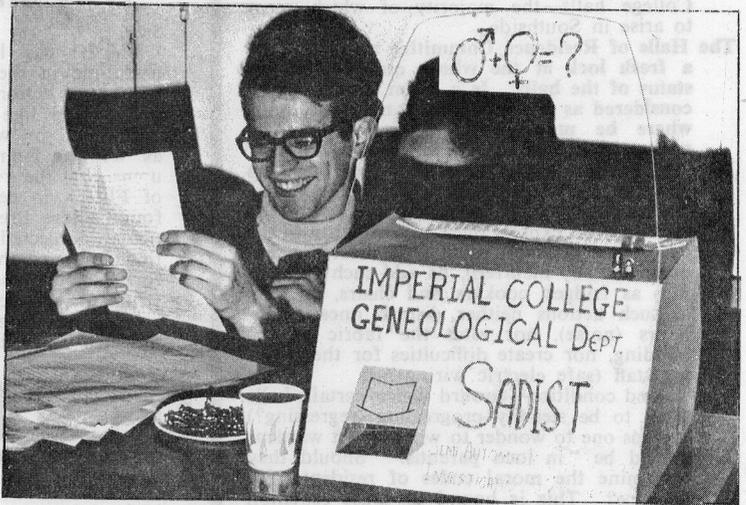
On arrival each person was handed a green or pink questionnaire according to sex (where discernable). The completed forms were then examined by the SADIST (Semi-Automatic Device for Investigation of Sexual Trouma), the person was assigned to a group A, B, C or D and given a tag bearing the letter to be prominently displayed. The result of the complex sociological analysis given to each set of answers ensured that people in the same categories would

be suitable partners for dancing, etc., etc.

The questions covered such soul-searching topics as "Would you support a campaign to make John Bloom Chief Rabbi?" "Do men call you 'sugar'?" If so, are you (a) sweet and easily dissolved? (b) refined? (c) untouched by human hand?" "If a man complimented you on your figure, would you hold it against him: (a) Yes? (b) No? (c) Sideways?"

Of course the questions brought out the wit in some people and many amusing answers were received, mostly from the girls: to the question "Would you have married the Marquis de Sade?" one replied, "Yes, at a pinch!"

As a means of promoting friendship it was quite successful, and the party seemed quite active with no one left out. The method thus has promise as a means of getting people together.



UFO's at Wellsoc

REPORTS of UFOs (Unidentified Flying Objects) have been made for several hundred years, though reports have been far more frequent this century, and especially in the last 25 years, but this is partly accounted for by the increased ease of communication.

Many of the reports come from pilots and truck drivers and other such people who are required by their occupations to watch the sky or to be regularly out at night.

The suggestion that they make the reports as a joke can often be discounted simply because such reports get a very scathing local press. It is

unlikely to be a figment of their imagination as there is correlation of detail in reports from China, South America, and all parts of the world, and this is especially remarkable when the observers live in isolated communities with no exposure to science fiction speculation.

As with all other unexplained phenomena, a religious significance has been attached to UFOs, but a more objective approach will be taken by the Study Group of the H. G. Wells Society when it collects and examines the evidence on the phenomenon. Efforts will be made to refute the existence of UFOs on the basis of known natural effects, and then to examine the remaining evidence.

SEX

at General Studies

SEX is a subject near to all our hearts, but when it is coupled with religion interest wanes. Despite this the General Studies lecture given by Rev. Kenneth Greet of the Methodist Church was well attended, no doubt drawn by that single word title.

The speaker gave a lucid, well-defined talk which neither shocked nor produced anything very new.

He divided his talk into three subjects: promotion of conception, prevention of conception, and abortion—all of topical interest. He gave the Church's view on artificial insemination, saying that if it was by the husband it was right, and if by donor wrong.

On other methods of conception promotion, such as the grafting of ovary tissue to cure infertility, he said they were right if they enhanced the essentially personal relationship of the family set-up.

Considering the Abortion Bill, he said that was right that it should safeguard human life, but that two lives should be considered, the mother's being the more important of the two.

The half-hour talk was followed by some attacking questions on the ability of the Church to lay down the law on matters concerning sex.

P.M.C.

U.F.O. CAPPOQUIN SIGHTING 1965

← DIRECTION OF U.F.O.; but have seen going away from the camera as well as to the left

Some of the Efflux is ahead of the U.F.O.

The U.F.O.

Efflux clear but sparse

Efflux "bunching"

Efflux thinning with rounded end

No smoke or vapour trail.

Notes by C.H.G.S.

Photograph taken near Cappoquin, Dec. 26, 1965, by Lisbet Mortensen

Comment

by the
editor

HALLS OF RESIDENCE

Home from home or
boarding school?

A DIRECTIVE was recently issued in the Southside halls of residence that all room furniture must be returned to the positions it occupied in the rooms at the beginning of the session.

This arrangement is not, however, the one planned by the architect of Southside—the same which was enthusiastically praised by THE OBSERVER as the best student accommodation in the country, and the same that was so proudly exhibited to Princess Margaret at the Opening Ceremony.

The layout of the rooms planned by Richard Sheppard may not be to the liking of us all, and a number of residents have chosen to adapt this "ideal" to their own satisfaction. However, a universally-acknowledged "non-ideal" arrangement is now being imposed.

This move seems to be yet another infringement upon the liberties of residents in Imperial College halls—the majority of which seem to arise in Southside.

The Halls of Residence Committee needs to take a fresh look at the whole question of the status of the halls. Is a room in hall to be considered as the resident's home-from-home, where he may—within reason—do as he wishes, or a boarding-school mini-dormitory?

Why should one not be allowed to introduce the occasional overnight guest (some friends do have a habit of suddenly appearing on the doorstep), to express one's individuality in the decoration of one's room (and meet any expense thereby incurred), or add such furnishings as fridges, cookers and chairs, so long as such actions neither disturb ones neighbours (noise), nor alter the fabric of the building, nor create difficulties for the cleaning staff (safe electric wiring)?

The second condition—toward which certain halls seem to be steadily progressing (regressing?)—leads one to wonder to what extent wardens should be "in loco parentis." Should they determine the moral codes of residents, for instance? This is bound to cause rebellion among the ranks, and residents will, like schoolboys, secretly seek to break the rules for their own sake rather than more maturely follow a privately-held moral code.

Congratulations

Sir,

I should like to congratulate I.C. Gilbert and Sullivan Group for a magnificent performance last night of both "Trial" and "Pinafore." Even though this was the first performance of the week, it was brisk, bright, colourful, well acted, well sung (although I did not agree with some of the musical interpretation), and generally excellently presented.

The only cause of disappointment was the small number in the audience, a characteristic of "first nights" at I.C., unfortunately, but I'm glad to find that bookings are heavier towards the end of the week.

I would encourage all who can to see this production. A good show deserves a good audience.

Your sincerely,
Mike McGuire. Met. 3.

Why Silence

Sir,

The IC mass learned for the first time in the last issue of FELIX of actions which I for one, would like clarified. I understand by word of mouth as well as from FELIX columns that the governing board of FELIX in general, and the four College Presidents in particular, objected to the continued use of the two-pronged fork Colcutt-Ignotus as an instrument of destructive criticism. Fine. I agree that purely destructive criticism seldom

achieves a result, even if this were its intention, for it is easily rejected, either on the more emotional ground of back-stabbing, or else by "So what would you do, Colcutt-Ignotus?"

The point which still stands is that, however bothersome, destructive criticism only arises when something is amiss, at least in the mind of the critic. If the people/groups at whom criticism was aimed regard such comment as pointless, why do they bother to wish to suppress it? If it does have a genuine point to make, should FELIX not be allowed to voice it, so that it comes to general notice, and, as is often the case, an answer must be written in the same issue?

This raises a second, more important, point. It seems that the board of governors has used its censorial powers simply to protect itself from anonymous review—Adrian Fletcher must have jumped through a hoop having been responsible for Colcutt last year, to now damn it. Ian Williams was told that he might print either Colcutt or Ignotus. Asserting the generally held principle of the "freedom of the press" he printed both. Now he may print neither. So, the respective, and, for their ability, respected authors write in the open, which need have little effect upon their material. What then has the board really achieved; what did they intend?

My summary may be unknowingly partial or slanted, my facts may be adrift—I'd feel easier if this were so—but

I think that there's a pair of blinkers on FELIX now.



In the last issue of FELIX, Adrian Fletcher wrote that it would need to be a major break in communications for a fellow to be unable to chat with a Union official. I think IC as a whole would perhaps like to see an explanatory chat now.

IAN COLLINS,
Vice-Chairman ACC.

Crass Attack

Dear Mr. Blistering Editor,
I was appalled to read last week in your Phallic views paper that you should, perhaps under the pressure of feeling bored, replace your anomalous communist (that is Ignominious—not Old Mutt) by this Crass Cooper.

Since I regard any attack on Pete Finch as a personal attack on myself, I was horrified to see this "Simple" Styled, long-eared, pseudo sexed, intellectually sickosocsec openly accuse poor Pete of not being completely fooled.

Furthermore, I hope that by all that is fair in this way of the world that the almighty A. Flictor may expose Cooper's real name, so that I can join Ignominious and "Pushyfacein." Yours, etc.,
FEET PINCH.

FELIX

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Jerry Stockbridge on the Halls —cont.

5.3 cm to fill a list of your "other main interests." You'll probably find they've been all used up on question 2. Never mind, bung down "Women" "Tiddlewinks" "Campanology" "Ploughing" "Working on hall committees" "Waiting for the Queen Mother" "Reading Colcutt" and you'll be quite safe on question three.

The real crunch comes on question four. "What do you hope to get from and contribute to corporate hall life?" A five pound note will fit the space nicely and represents the complete answer. However, the poorer student must use his brain here very carefully. To say "nothing because there isn't any" may be very true, but no one likes to admit it so you will win no friends that way; better "I will take a full part in all hall events." The committee know that you won't, but it's what everyone else puts and represents a "playing safe" approach. To make sure of a place you must be different, and avoid the hackneyed, typecast junk that usually comes in.

"I would like to live in hall so that I can talk to people in Mines, and

from other years and post graduates, and have coffee with them, and go to Buttery hour, and be near college so I can do more work, and . . ." is obviously c.p., but it is amazing how much of it comes in. Indian P.G.'s especially should avoid "I want to live in to be near to my laboratory" though what else they can put I find it hard to think of. The ideal answer is, of course. "I will entertain the warden in my room for sherry every week, always attend hall dinner, organize religious discussion groups on each landing, help in the running of parties, never introduce more than one overnight guest, and at all times make no greater sound than the grating of a slide rule."

In conclusion, it is most important to remember that your application will be judged by students who will in the main, be looking for the sort of person they could tolerate living next to. The more you try to deliberately impress them, the less your chances. Obvious don't go to the other extreme, just remember who your readers are and aim at them. Go for a bull's eye not a bull— . . .

CHRIS COOPER

The Concrete Cuboid

FROM THE outside, the new buildings of this college present a good and hopeful appearance. Given the limitations of the obligatory Central London cuboid style they are by and large imposing to passers by and harmonious with each other; the Physics and Hill buildings are pleasantly sober. Mech Eng entrance towers like a symbol of the age of Robbins, the sweep of Civ. Eng. offsets Queen's Tower surprisingly well. Southside steams through South Ken like an ocean liner. Inside, however, too many look like the image which the phrase "Technical College" brings to mind. The whitewashed corridors of the Mines Link and Biochemistry, the jarring ineptnesses of the Hill Building, and the ubiquitous horror of the electric-lit corridor (has no-one ever devised an alternative to the corridor for places where one works?) Even the gloom of the Victorian dungeons of the Chemistry and Huxley buildings is often preferable. These modern masterpieces of Wimpy House art don't take kindly to home-made notices directing delegates to conferences on sewage engineering, either. What a university college must have is atmosphere and dignity, inside as much as out. I don't suggest any other London colleges have it; but Oxbridge and some of the newer ones do, in abundance.

Flashpoint

(From the Editor of *Innit?*)

Sir,
As a fellow journalist I am perplexed to see your persistent failure to include advertisements for pregnancy tests in your column; have you succumbed to the intense pressure which every journalist of integrity must experience when trying to defy the Establishment?

Despite the maelstrom of controversy which our recent advertisement for pregnancy-test advertisements provoked, we have not hesitated to give the latter a position of prominence in our crowded pages, and it may even appear in the editorial column soon. We have had many letters of support, mostly from our rapid, accurate and reliable staff. Therefore, Sir, if decency and freedom have any meaning, I implore you to publish and be damned, as I have done,

Yours, etc,
Frank Cluchs.

PS:—I hope the above may be of some use to you in your column. If you can see your way clear to contributing something controversial on the same theme to *Innit?*, I would be most grateful. Please let me know whenever you have a synthetic issue you want to stir up, and I am sure we can come to a mutually satisfactory arrangement.

Appeal

Many kind people have offered me helpful suggestions and material for this column, and I am most grateful. Would all future benefactors kindly send their contributions, by registered mail, cash-on-delivery, to Jerry Stockbridge, who handles my rejected material. Thank you.

Mass X-ray at I.C.

A Mass X-ray Unit will be at the College during 16th—18th March.

ASTRONOMICAL SOCIETY

Structure of the stars

ON TUESDAY, 8th, Professor Hermann Bondi of King's College, spoke to RCS Astronomical Society on the structure of the stars, which are now generally accepted as the birthplace of the elements beyond hydrogen.

Speaking lucidly and without notes, the Professor began by quoting Hoyle's statement that we know more of what goes on inside the stars than inside a boiling kettle.

Forty years ago Eddington produced a workable theory of the structure of stars from simple assumptions regarding their chemical uniformity, and the knowledge that they are gaseous in nature. Without knowing anything of the processes by which energy is released, he was able

to derive a mass-luminosity relation that accurately describes main-sequence stars, and to calculate the temperatures of their centres. Stars move off the main sequence when they begin to age, and helium accumulates in their centres; they swell, the temperature at their centres rises and the helium is burnt to produce heavier elements. But the energy expenditure demanded by Eddington's relation cannot change; whereas the star's capital of energy must eventually run out. The smaller ones become white, and then black dwarfs supported entirely by cold pressure; this will be the fate of our sun. The larger ones shrink further and further, spin faster and faster and finally blow themselves apart by simple centrifugal force. It is suspected that if there were no angular momentum whatever in the star (hardly conceivable), it would shrink to "an absurdly small" size.



Photo: D.I. Williams

Professor Bondi's forthcoming talk to the Huxley Society on "Science and Religion" has been postponed to the 3rd May, in order that a longer and more relaxed meeting may be held, with the chance of a reasonable discussion period afterwards.

C.R.C.

MATERIALS RESEARCH with C.E.G.B. a career with a great future...



The exploitation of nuclear energy clearly necessitates the application of the most advanced knowledge to ensure satisfactory performance from the materials involved. Similarly, in conventional generation systems, significant improvements in the performance of traditional materials can be achieved through basic and applied research. The demand for electricity doubles every eight years and, at present, the daily capital investment is around £1,500,000.

Therefore there is a continuing requirement for scientists of the highest calibre to investigate problems such as the creep of metals, irradiation effects, corrosion, and fracture processes. Young scientists with relevant research experience are particularly welcome. Much of the work is comparable with that carried out in universities and close links are maintained with laboratories doing similar work. Publication of research is actively encouraged, and so is the implementation of its results in the operational field.

CENTRAL ELECTRICITY GENERATING BOARD

Further information is available from: **W. H. F. Brooks, Recruitment and University Liaison Officer, Sudbury House, 15 Newgate Street, London, E.C.1**

The Board's representatives will be visiting this University on March 1 1966 when they will be pleased to meet you to discuss career opportunities for metallurgists. Further details obtainable from your Appointments Officer.

Free Vote for President

The Case For

BEFORE considering the advantages of electing President of Imperial College Union by popular vote, there are three important criticisms of the present evolutionary method. Firstly, the President who is elected by a meeting of joint Council must feel more responsible to them than to the whole Union. This very indirect method of election means that the President seems far from the general body of the Union.

Secondly this system of election tends to produce a President from the oligarchy which runs Imperial College Union. This is backed up by most Presidents evolving directly from Council and not from the Union. Because of this too many members of the Union do not know of the future President until they are presented to them.

Thirdly, because of the system, candidates are dissuaded from coming forward. It is a sorry state of affairs when Presidents are elected unopposed.

ULU is a prime example of what happens when the members of the ULU have hardly any say in the elections of the President and the rest of the executive. In order that IC does not degenerate as far as this, the President and Secretary of IC Union must be elected by a popular vote of the Union members.

The first advantage is that we would have a democratic system for choosing our most senior member. Secondly, and the more important reason, the President would be responsible to the whole Union, who had elected him. Conversely the Union members would realise that the President more realistically represents them in his work within and outside IC.

In order to persuade the majority of the Union

to support them, the candidates would have to organise a campaign to make themselves known, to show their abilities and put forward their views to the whole Union. I doubt if any candidate would be elected on grounds of emotion. In fact potential candidates who were not serious are more likely to win over the relatively small Joint Council than the solid bulk of the Union.

By exercising their vote to choose the senior member of the Union, members of IC Union will be able to participate more in the Union when they realise they count and their vote counts. In this way I think that the apathy which besets Union activities could be curbed to the advantage of everyone.

E. Fortune.

And Against

Created issues and inter-collegiate strife. Are these the grounds on which we want to elect the President of I.C. Union? Do we want candidates to have to think up slogans like "Cheaper Mooney Meals" that are impossible to put into effect? Do we want the Mines vote to hold sway over whether we have a President from Guilds or RCS?

A free vote for Presidency does not necessarily mean that these would be the deciding points, but only if issues like these arose would it be any different from the present system, where the final choice is made by Council—which is no more of a clique than the House of Commons.

The nature of the office makes it essential that the President is someone of proven administrative ability, with the respect of those with whom he must work and those in authority, and with an

intimate knowledge of the running of the Union. The present system ensures that the person who fulfils these conditions best will be elected.

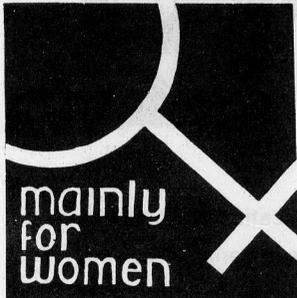
It is said that a great advantage of the proposed change is that popular Presidents will result. In theory this is an excellent point. But why are people popular? Because of the above points? Or because "he makes Constituent Union meetings a laugh" or "he is a good centre-forward." To become popular candidates would be forced to canvass intensively for two or three months beforehand. This would mean final year undergraduates (who are at present the majority of candidates) would not be prepared to stand. Do we want a free vote with some of the best candidates unable to stand—resulting in, perhaps, only one candidate?

Dougal McCreath (Civil Engineering PG) is an ex-President of the University of Manitoba in Canada. He was elected by a free vote but is not in favour of this method. "Candidates are forced to make rash promises which they cannot keep. They have to manufacture reasons why they are 'different'." He said also that nearly always the election reduced to Arts versus the Sciences, with the former more successful through greater numbers. He, as an engineer, belonged to a small faculty and would probably not have had a serious chance but for exam failures removing the two main contenders. Do we never want a President from Mines?

People who suggest that the present arrangement is undemocratic would be better employed doing their stirring against the method of government in this country. As the past has shown, a Prime Minister can stagger on, even when opinion polls clearly show his party's unpopularity. This we call democracy? At I.C., if at any time the President become unpopular, a successful motion of no confidence at a Union meeting will immediately cause his downfall. Here we have total democracy because the Union is above the President, who is only the chairman of Council.

Earlier this year FELIX interviewed two hundred people for a Kanta Poll. Over 57 per cent had not the vaguest idea what the main function of the President was. Should students be asked to vote for unknown candidates to fill an unknown post?

Would you vote for the candidate you knew was best for the job or the candidate you knew?



Disaster Hits Would be Cook

Dear Madam,

AFTER TRYING your recipe contained in the last FELIX I am in great trouble. As I was making the sandwich the buttered bread fell on the floor. I slipped in this and upset the cheese into the fat which caught fire. In my hurry to put the fire out the Branston pickle fell down the front of my dress. At this point my boy friend arrived to complain that his shirt was in holes because of the acetic acid that I used to remove the beer stains from it.

As a result I have lost him, and my landlady has thrown me out of my digs for practising on her husband's shirts. Please help me.

"Distraught"

We would be interested to know how the cheese set your fat on fire. In any case it is unnecessary to start heating the fat before the sandwich is made, and even assuming that the fat had caught fire you should have known better than to panic; this would have avoided spilling the Branston pickle down your dress.

With regard to your stain removal problem, if you were to try diluting the acetic acid to 20 per cent before applying there would be no problem. Also, our directions state that the shirt should be thoroughly washed out after using the acid.

Our sympathy on the tragic loss of your boy friend—try one of the other 3,000 choice specimens!

I.C.W.A. NOTES

WANTED—as many helpers as possible to do the decorations for the I.C.W.A. Formal on the two weekends before the Formal (Sundays 13th and 20th March). If you can help contact either Ann Hay or Chris Youle, I.C.W.A. Corridor, Beit Hall.

CARNIVAL QUEEN—If you think you are beautiful, don't forget to get yourself nominated for the Carnival Queen (details in every department). The finals of this competition take place at the I.C.W.A. Formal on 25th March.

DR. WENDY GREENGROSS, the Marriage Guidance Counsellor, is again coming to discuss "Personal Relationships" on Thursdays 24th February and 3rd March in the I.C.W.A. lounge at 1.15 p.m. All Icwarians welcome.

ANY PROBLEMS?—If you wish "to alleviate any irreversible biological disaster" that may occur, advice will be given. Contact Box No. 227a, via Felix rack in the Union lower lounge.

COFFEE (WHITE)—A fresh stain will probably respond to soaking in a detergent solution, followed by rinsing, but if the stain is set use an oxidising bleach. Rinse thoroughly and wash in detergent solution according to the type of fabric.

PERSPIRATION (Commonly known as sweat)—If the stain is light, it may be removed by rinsing with warm detergent solution, working gently and then rinsing again. When the area is severely stained, apply a few drops of ammonia to a clean cloth and dab, then rinse well with warm water. Turn the garment inside out and work gently with warm water to be certain of removing all ammonia. Then rinse again.

New Hostel for I.C.

Two students are so fed up with the accommodation problem in this area that they have decided that it is time to do something about it. They propose to set up a self-governing student residence which would be similar in certain ways to an American Fraternity. It is proposed that it would be totally owned and administered by the student residents although they would like an affiliation with one of the American fraternities, so that members of their fraternity in London would be able to stay at American ones, and vice versa, during the summer vacations.

Our more English readers might like a short account of the way in which the American system operates. The fraternity at the American University is a body of students who live together in a large house which is usually divided up into sleeping rooms, studying rooms and entertaining rooms.

At the beginning of the year at the university the students visit the different fraternities and choose the one which they would like to belong to. Those that are selected from these applications are accepted on probation for six months. At the end of this period those that still wish to remain, have to be approved by the rest of the fraternity. Once elected a person is a member for life.

The fraternities are usually members of chains which have units at different universities all over the country. Some of them have odd names like "OKU" and others are weird cliques like "WASP" — White Anglo-Saxon Protestants, and those which exist for such things as wrestling club members. Any member of a chain may stay at any of the other fraternities that belong to the chain.

It is hoped that any started here would not become cliquish but it is an obvious trap that anybody electing his own successors could fall into.

If anybody is interested in this scheme, and anyone with first hand knowledge of the operation of any such bodies, will they please get in touch with Robin Dibblee or Clinton Burhouse. (Any notes sent to them through Felix Rack Box No. 227b will be forwarded.)

S.I.D.

Hermann Bondi Talks to Felix

Famous mathematician of King's talks about his work and views to Chris Cooper

Professor Hermann Bondi, FRS, FRAS, was born in Vienna, took his MA at Trinity, Cambridge, is now Professor of Mathematics at King's, London, and by virtue of his frequent recent visits to IC, deserves the title of Visiting Professor here. Two weeks ago I interviewed him in his tiny office at King's, shamelessly demanding potted pronouncements of his views on cosmology, religion and education. Here is part of that interview.

Hoyle's Steady-state Theory

Q: What are your views on Hoyle's abandonment of the steady-state theory, at least for the local universe?

A: Well I have disagreed with Hoyle for a number of years on the whole situation here. I have always felt that the steady state theory was a very good guess in the sense that it was a very simple model. It may well be that we have been driven from this very simple position. I then see no point in trying to maintain it in a very complicated way overall as he did with Narlikar, or in some still wider way as he is considering now. The only advantage of the steady-state theory is its simplicity. If the simplicity has to be abandoned there are other models I would look at first.

Q: What were your original reasons for adopting the theory?

A: Basically the point of simplicity. If you have a changing Universe then you must contemplate . . . a changing physics. I think that many of us—of course Hoyle has been extremely forceful in this himself in much of his work—many of us believe there is a strong link between local Physics and the Universe at large, and the difficulty of knowing how Physics has changed in these circumstances is very great indeed, because naturally all our present knowledge is gained at what is a moment in the life of the Universe. Therefore there are innumerable possibilities for changes—only a very few have been explored. One of them is a change in the constant of gravitation during the life of the Universe, but there is really no limit and of course one knows from the history of Physics that it will not be the n th possibility investigated that will turn out to be particularly fruitful, but the $(n+1)$ th. If the universe is changing; on the other hand if the universe is unchanging . . . this is a typical moment in the life of the Universe and we can use our physics with confidence. Of course this may be quite wrong but it is a very good thing to try as a first shot.

Micro-macro link

Q: Do you see any immediate stimulus to cosmology from the sort of elementary particle physics that goes on at IC?

A: What you are asking me is practically to be a soothsayer and this is very difficult. As you know, everything in elementary particle physics is based on the idea of Lorentz covariance. On

the other hand the universe as a whole is certainly not Lorentz covariant. We know that if I get an isotropic view of the universe around me, if I were moving at a high speed through this position, I would see an anisotropic view, so that the universe determines a velocity. I like to say that what the general principle of relativity states is that as yet no experiment has been performed that reveals this cosmologically preferred velocity, but of course such an experiment may be performed one day. Some elementary particle processes may be related to this cosmic velocity.

Q: I would have thought the local velocity of light was the velocity in question.

A: No, no, this is not the velocity of light at all, —[Cooper subsidizes in bewilderment]—look, when we look round us, we see the velocity-distance relation operating, in whatever direction we are looking. If we were moving through our present position with three-quarters of the velocity of light, and looked at the universe around us, then at the moment of moving through our present position, we would see the same kind of thing we see here—that we see from our own present state of motion—but of course, the red-shifts and blue-shifts and intensities would be rather different and they would not give us an isotropic picture. We would, after all, looking forward see lots more blue-shifts and looking backwards; very much enhanced red-shifts. Therefore there is a definite velocity not violently different from our actual velocity, which is the cosmologically preferred one.

Q: It would be like the Michelson-Morley experiment but with a positive result?

A: It would be this kind of thing, exactly, and we would expect this to come out of any experiments which had very strong cosmic links different from the links that may underlie Mach's principle or such a thing. Now you can imagine many things like that, for example there have been investigations of neutrino degeneracy of the neutrino background; now of course, the neutrinos here that pass through us from all the stars in the Universe will not form a Lorentz-covariant set, and anything very strongly affected by that, any nuclear reaction, would reveal this. I'm not a believer in an aether, but I think it is very hard to say that there aren't neutrinos and anti-neutrinos rushing round in a manner which contains this preferred velocity.

Q: What actually is your present line of research?

A: It's almost entirely in theory of gravitational, general relativity, such problems as gravitational waves, energy transfer by gravitation, configurations of high gravitational potential and so on.

Q: Is this all done on paper?

A: All on paper, entirely.

Q: How does one become a cosmologist?

A: Well, I don't think one should become a cosmologist; I think there are very few people who have made a really worthwhile contribution to cosmology who specialised all their lives in this subject. Very many important contributions have come from people who've been theoretical physicists in other directions, or astronomers in other directions, and then have made occasional contributions; that kind of thing . . . I think theoretical astronomy is a very good field of employment for a theoretical physicist, and if he does theoretical astronomy he may go over and once or twice write a paper on cosmology.

Science and Religion

Q: You're going to be talking to the Huxley Society on "Science & Religion." What lines will you be talking on?

A: Well, I obviously don't want to talk too much about it now, but I feel very strongly that there's a hangover from the nineteenth century about the conflict between the results of science, and what the religions claim as facts. Now, that, I think, has largely evaporated because theologians have become so very much more flexible. I don't think there's any serious conflict in that direction at all; on the other hand, there is a good deal of conflict between the methods of science with their essential belief in human fallibility, and the sometimes arrogant public claims of revealed religion, although I have no quarrel with a modest form of private religion.

Implementation of Robbins

Q: I read your article in Isis expressing enthusiastic support for the Robbins report. What were your reasons for welcoming Robbins?

A: Well, it seems to me that we are in an extraordinarily fortunate position. We have an enormous growth of desire for education, including higher university education, coming very much at the same time as the economy is moving into a phase where more and more highly educated people are required, and it is not necessary for these two things to move in phase. We know, for example, that countries like India are full of unemployed graduates, and we know of other countries where there would be great openings for graduates, but there are not enough people coming forward to the universities. Well, it seems to me that this great growth of desire together with the great growth of opportunity must be matched by university traditions. I think that lack of desire is responsible for standards being no higher than they were in the past and that even when reaching a much larger fraction of the population, there's not the slightest reason to believe that "more means worse" as the opponents of Robbins have so often said.

Q: Do you think the recommendations of Robbins are being implemented far enough?

A: Well, of course, there are many aspects of this that I am quite unqualified to speak about. I mean this vexed question of the position of the Colleges of Education, where the Government has decided against Robbins. I can't speak about this, I don't know either side of the question well enough. In the universities my feeling is that the same thing holds back the universities as holds back everything in the country's economy, namely, the building industry is not as productive as it ought to be, and that therefore it is very hard to get sufficient results to be able to accommodate all that should be accommodated, and to be able to do so efficiently.

Q: Would you support the idea of a hierarchy within universities so that Oxbridge would have a privileged position?

A: Well, I'm certainly violently against anything that ossifies a position, because in the minds of certain schoolmasters the opinion hangs on that Oxbridge, because it was pre-eminent fifty years ago, must be pre-eminent now, and that that should in any way be codified for the future when it's no longer true now, seems to me quite absurd. No, I like a good deal of competition and free trade between the universities; if we have academic freedom, then at least we can experiment and find out.

WEDNESDAY 23

Catholic Society: Mass. 8.55 a.m. 11 Princes' Gardens.
West London Anglican Chaplaincy. Ash Wednesday, Eucharist 8.30, Concert Hall.
I.C. Rover Crew. Annual General Meeting at B.P. House at 5.30 p.m. and Dinner in the Union at 7.30 p.m.
I.C. Folk Song Club. Featuring Diz Disley, 7.30 in the Upper Refectory.

7.30 in the Upper Refectory.

Art Club. "Enjoy the Gay Abandon of Paint." 6.45 p.m. this evening and every Wednesday and Thursday. R.C.A. Huxley.

Literary Society. "James Joyce," by Mr. Charles Peake. 7.30 p.m. EE SCR.

TUESDAY 24

I.C. Union Meeting. David Livesey is proposing a free vote for the President y also the loan question will be discussed. 1.15 p.m. Concert Hall.

Felix Staff Meeting. 12.45 Press Room (top of Union).

Catholic Society. Focus Discussion group in room 616 Tizard Hall at 5.45.

I.C. Dancing Club. Learn dancing with Ronnie Ensum. 7.30 p.m. Beginners Ballroom, Concert Hall.

"Become a builder of the New Age." A transmission by two Venusian Intelligences through Dr. George King. Mech. Eng. 432 at 7.00 p.m.—presented by the Aetherius Society. All welcome.

RCS Smoking Concert. 7.30 in the Concert Hall. 3/6—including a free pint.

Dance—at St. Stephens Hospital Nurses Home, Fulham Road. Starring Norman and the Conquerors—eight till midnight. Tickets at the door. 3/-.

International Relations Club. Mr. R. E. Reynolds will speak on "Canada's place in the Modern World," to be followed by questions and discussions. Slides of North Canada. Southside Upper Lounge. Coffee will be served. All welcome, 7.30 p.m.

WHAT'S ON

Compiled by Mike Smith

FRIDAY 25

Friday's Prayers—Today and every Friday, Islamic Prayers will be held at 1.30 p.m. in 11 Prince's Gate

Folk Dancing Club—All are welcome at 7.15 p.m. in the Union Snack Bar.

C & G Engineering Society—Presidential Address and Annual Dinner. Address: Mech. Eng. 542—5.30 p.m. Speaker: Mr. R. J. Habsen, F.I.C.

Dinner: 7 for 7.30, Union Dining Hall. **Southlands College Hop.** About eight tonight, and featuring the "Trendsetters Ltd." (S.C., Wimbledon Parkside, S.W.19.)

I.C. Film Society presents: Fellini's "8½" and a short "Fireworks." 7.15 p.m. in the Concert Hall.

SATURDAY 26

Hop—with the "Soul of Vinton Graye" in the Concert Hall and 'The Jazz Congress' upstairs.

SUNDAY 27

West London Anglican Chaplaincy. Sung Eucharist, 9.30 a.m. Evensong, 7.30 p.m. Hospital visiting at 5.30 p.m. **Jazz & Folk in the Union.** Lower Lounge. Union Building, provided by IC Jazz and Folk Song Clubs. Small nominal charge may be made.

MONDAY 28

I.C. Christian Union. Living with Providence:—Rev. D. Osborne. 1.10 p.m. in Aero 266

Mathematics Society. "Mathematical aspects of water droplets in clouds"—Professor B. J. Mason, F.R.S. 4.0 p.m. in the Main Lecture Theatre in Metallurgy Building.

I.C. Dancing Club classes with Christine Norman. 7.00 p.m. Latin American; 8.15 p.m. Jive and Rock, in the Upper Refectory.

The Devic Kingdom—a tape-recorded lecture given by Dr. G. King—presented by the Aetherius Society.

TUESDAY 1

Twentieth Century Art—Picasso, the creative imagination. Trewin Copplestone. 1.30, Physics Building.

Musical Form and the Listener. The final talk in a series of five lectures given by Denis Mathews. 1.30 p.m. in the Physics Building.

Economics of Everyday Life 8—How to Raise the World Standards of Living—problems of Underdeveloped countries, J.P. Countries. 1.30 p.m. in the Physics Building.

Catholic Society. Focus Discussion group meetings in Tizard 547 and Selkirk 475 at 5.45 p.m.

I.C. Dancing Club—Instruction by Ronnie Ensum. Classes: 7.00 p.m. Beginners Ballroom, 8.15 p.m. Intermediate Ballroom, Concert Hall.

Imagination: Your only Creative Faculty—presented by the Aetherius Society. 1.00 p.m. in Mech. Eng. 452 All welcome

WEDNESDAY 2

West London Anglican Chaplaincy: Eucharist 8.30 a.m. Concert Hall.

Catholic Society. 8.55 a.m. Mass in 11 Princes' Gardens.

Southside Stomp. I.C. Jazz Club presents the "Splinters Group" "Sounds Interesting" and IC's Jump Band. Eight to eleven.

THURSDAY 3

Felix Staff Meeting. 12.45, Press Room.

IC Rover Crew. Chairman's Meeting—Geoffrey Young. 12.30 Mines Extension 303.

IC Union Debating Society. The Committee will be elected today in the Union Concert Hall at 1.00 p.m. This will be followed by the debate "This House supports American Action in Vietnam." Mr. Richard Gott will oppose the motion.

Beggars on Golden Stools—a look at the economics of Latin-America, H. A. Holley. 1.30 p.m. in the Main Physics Lecture Theatre.

Mass Communication. Dr. Jonathan Miller (writer and TV producer). 1.30 p.m. in Mech. Eng. 220.

Catholic Society. Focus Discussion group meeting. in Room 616 Tizard Hall at 5.45.

"**The Devic Kingdom**" The Aetherius Society—Fairies, gnomes, nature spirits etc do exist. Mech. Eng. 452 at 7.00 p.m. All welcome.

International Relations Club, Africa Society. Forum on Rhodesia. Guest speakers will take part. See notices for details—7.30 p.m.

I.C. Dancing Club. Dancing classes with Ronnie Ensum. 7.30 p.m. Beginners Ballroom, Concert Hall. Union building.

FRIDAY 4

Up the Gulls Mines Carnival with the Swinging Blue Jeans and the New

Sedalia Jazz Band. Food, films, cabaret, Nine till five in the Union. Tickets: 27/6 double. Dress: school?
Folk Dancing Club. All are welcome at 7.15 p.m. in the Union Snack Bar.

SATURDAY 5

IC Union Hop. Featuring the New Jump Band and The Beat Group.

SUNDAY 6

St. Augustine's, Queensgate. Sung Eucharist, 9.00 p.m. Evensong, 7.30 p.m.

Jazz and Folk in the Union lower lounge provided by the IC Jazz and Folk Song Clubs.

MONDAY 7

Anglican... Chaplaincy, Catholic Society, Methodist Society. Open meeting. Room 303, Mines Extension.

IC Christian Union. Heaven and Hell, Dr. M. Barnett. 1.10 p.m., Aero 266.

The Great White Brotherhood. Tape recorded lecture given by Dr. G. Kirgon The Spiritual Hierarchy of this Earth.

IC Dancing Club—with Christine Norman. 7.00 p.m. Latin American; 8.15 p.m. Jive and Rock. Concert Hall, Union building.

TUESDAY 8

20th Century Art. Paul Klee as the Art of Fantasy. Trewin Copplestone.

Latin America in the cold war—F. Parkinson, Dept. of Law, UCL. 1.30 p.m., Physics building.

Catholic Society. Focus Discussion groups in Tizard 547 and Selkirk 475 at 5.45.

IC Dancing Club—Dancing classes with Ronnie Ensum. 7.00 p.m. Beginners Ballroom, 8.15 p.m. Intermediate Ballroom. Concert Hall, 7.00 p.m., Union Building.

COCONATS IS FORMED

AN ORGANISATION among the national clubs comparable to OSS and the Political Societies Council has been set up within the framework of the International Relations Club.

A meeting of the Social Clubs Committee last Wednesday approved the formation of a sub-committee of IRC, which draws on the national clubs for its other membership, to organise functions of joint interest.

An example of the type of event which this subcommittee will organise was last Thursday's India-Pakistan Forum, reported elsewhere in this issue

I.W.

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A representative of the Company will be visiting the Appointments Board on March 2nd., and will be pleased to discuss career opportunities with you.

For further information consult your Appointments Board or write to:

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Imperial Chemical Industries Ltd., London S.W.1



PR 399

Gutteridge Cup

MOTSPUR HERE WE COME

I.C. 11 - C.E.M. 3

by Bill Jenkins

It was a vocal, bloodthirsty and near alcoholic contingent of C.E.M. supporters who turned out at Harlington last Wednesday. A contingent who found themselves not only matched for support by an I.C. party under the mob rule of Ken West but steadily silenced as the I.C. fifteen quickly established their superiority and by virtue of an 11-3 win entered the final of the Gutteridge Cup for the first time for five years.

The margin of this win could have, and should have, been much greater. Howell once more dominated the tight but behind him things somehow went astray when some uncontrolled heeling together with a slow start by Smith was certainly not helped by a C.E.M. back row who lived on or near the borderline of off-side. In addition a strong crossfield wind made line out play almost impossible and for the majority of the match three quarter movements were few and far between.

C.E.M. Weak

Ray, in spite of suffering several severe knocks, played outstanding driving on a park where Andrenon and Rogerson were ever prominent, while 'veteran' Place often ghosted from nowhere to join a passing movement. Against them the C.E.M. showed little initiative; a remark that could also be applied to their three quaters who rarely escaped the I.C. defence and whose few dangerous moves came from opportunist moves.

The score opened when Ray kicked a ninth minute penalty for I.C. : a good effort from 35 yds. This

was not improved upon before the interval although one move saw Chappel cross the line only to be called back for a previous infringement. The remainder of this half was somewhat disjointed and devoid of incident unless one includes a glorious attempted uppercut by one I.C. forward; unseen by the referee but instantly spotted by his Australian boxing instructor.

During the second half I.C. tightened their grip on the game, going farther ahead with an early try. This score had its origin in a short penalty which triggered a move containing two directional sorties and with at least half the side handling. Then a kick ahead by Hills was gathered and passed via Cleary to prop forward Andrenon who covered the last ten yards at a speed that would have been no disgrace to a back before crossing some ten yards from the flag. An excellent try converted with casual ease by Ray.

The writing was now clearly on the wall for C.E.M. and although they closed the gap with a penalty, Ray took his points tally to eight by kicking an easy goal in front of the posts.

Volleyball

LEAGE FINALS

ONCE AGAIN the I.C. Volleyball team beat opponents in matches through the league, and reached the quater final. The other three teams to reach the quater finals of the competition were Southgate Tech. (last years S.E. champions), London Fire Brigade, and Borough Poly.

In the match against Borough Poly we had an easy victory by 15-11 and 15-2. In the next match the college team defeated the Fire Brigade who thought to be favourites to win the final. The I.C. forwards, Noel, Harai and, Temad, were too strong for the brigade, their strong smashing over the net proving unreturnable. The final scores in this highly exciting match were 15-10 and 15-7.

This victory put I.C. into the final against a strong Southgate Tech. team. After a very exciting struggle I.C. took the first game 15-11, but the opposition, whose team included two national players, took the final two games and won the match.

This completed the scoring and although a difference of opinion between the college front row and the referee resulted in several more C.E.M. penalty attempts the exultant leaps of "impartial" touch judge Ballard indicated that none was successful.

So I.C. move on to Motspur Park on March 5th where the final hurdle between them and the Cup will be provided by the blue and purple jerseys of U.C.

Boats

OUT OF SEASON

AT THIS time of the season the boat club does not race very often but our two novice crews took on two equivalent crews from Reading University over a mile on the Tideway.

The first crew won their event by two lengths, but the second was not so fortunate and lost by a margin of about five lengths. It would seem that there is a great disparity between these two crews and, at this time of year, it is strange that this should be so. The second crew lacks cohesion and the first crew's rhythm leaves something to be desired, but they do work together better than the second.

These faults must be straightened out before the Head of the River Race on March 19, if the anticipated successes are to be realised.

Women's Judo

FIRST MATCH

I.C. Judo Club women's section fought their first match last week and came home victorious. In a match at King's the first team beat King's College 10 pts to nil, and then went on to beat the I.C. second team 17-10.

In the first team (Jayne Vowles (Cpt), Imelda Wagner, Rita Garepole) versus second (Judith Pearson (Cpt), Valerie Smith, Jane Pearson) match Imelda overpowered Jane with a Kesagatame (scarf hold) after attempting an arm lock. Then Judith defeated Rita using Yoko-Shiho-Gatame (sidehold) bringing the match to a draw. The first couple then replayed and Jayne was successful with a left-handed Tai-Toshi. After this as it proved impossible to locate the King's bar the teams dashed back to I.C. to make it before closing time.

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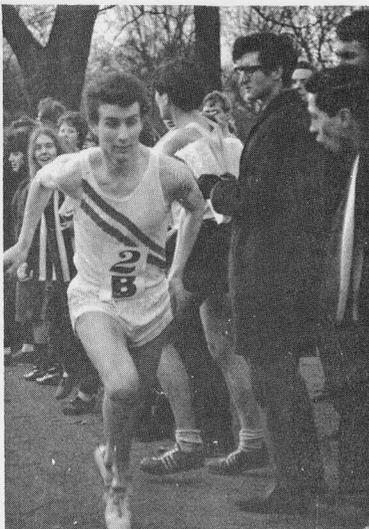
OUR CUP GOES NORTH

THE WEATHER, the organisation and the excitement all lived up to the usual high standard at last Saturday's Hyde Park Relay. The overall honours went to Edinburgh University who carved 89 seconds off the record to take the Sir Roderick Hill Cup on its farthest journey north to date.

Although lacking any real "stars" Leeds, the holders, were pre-race favourites after their recent win in the U.A.U. championships with Edinburgh, led by Olympic runner Fergus Murray, second favourites. The race started that way for at the first change over Leeds were leading with the Scotsmen in fifth place. On the second lap Pete Yates (U.C.) set off in determined mood and took the London college into the lead.

This was not to last though and Leeds resumed the lead on the next lap with Edinburgh now second whilst U.C. dropped back to fourth and stayed there. Edinburgh took the lead on lap 4 and kept that position with Fergus Murray on the last lap recording second fastest lap of the day.

Behind them Borough Road were building up from a slow start and had reached third place and on the last lap their junior international Tony



Tony Moore (Borough Rd.) sets off on the last lap in hot pursuit of Leeds whom he passed to gain 2nd place.

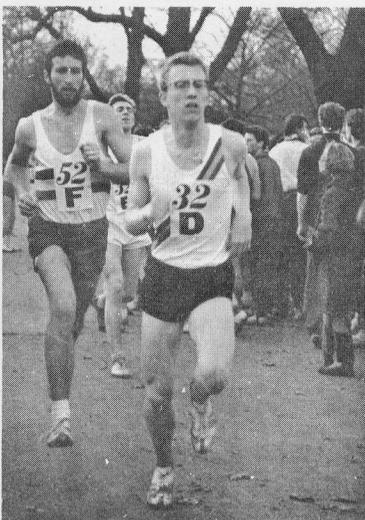
Photo: Qattan.

Moore motored round in 13m. 58 secs. to take second place from an unhappy Leeds. Meanwhile some thirty places back international Mike Turner (Queens' Coll., Cambridge) was winning the fastest lap medal for the fourth year running with a time of 13.35.

The college team cannot really compete with this standard of running and did well to improve twelve places on last year and come twenty-third. A good start was made by Howard Smith who started us off in eighteenth place. A slow run on lap two by the ailing Captain left us in twenty-seventh position and then we gradually pulled back to twenty-three.

Frank Hobson.

Results:
Roderick Hill Cup—Edinburgh Univ.
I.C. Union Cup (cols, less than 500 male students)—Borough Rd., Coll.
3rd—Leads. 12—King's.
4th—U.C. 18—L.S.E.
5th—Loughboro'
Fastest lap—D. M. Turner, 13-35:
A. F. H. Murray, 13-39.



Lap 5 and Dave Holmes takes over for I.C. from Alan Cope in 23rd place. I.C. force pace

Water Polo

QUEEN MOTHER WATCHES I.C.

IN A MATCH watched by the Queen Mother, I.C. water polo team lost to their arch-rivals U.C. by 5 goals to 3. The Queen Mother, who was visiting the University Union, saw a fierce game in which the U.C. team made it a hat trick of victories over I.C. this season.

The U.C. team contains three U.L.U. first team players, but in spite of that they are probably little better than our team. However they held a considerable psychological advantage already having two single-goal victories behind them.

I.C. started by playing defensively but this plan misfired as U.C. soon scored by a lobbed goal. In the second quarter the opponents, no doubt inspired by the Royal patronage, scored again to go 2-0 up. The college team then came out of their defensive stupor and centre forward Ong fought hard to score I.C.'s first goal and I.C. were now playing splendidly.

RUGBY FINAL Motspur Mar.5

FIVES WIN

I.C. Fives team had their second victory of the season a fortnight ago. The match was against University College School Old Boys and took place on our home court at Hampstead.

Our first pair made short work of both their pairs, amassing almost enough points to call it a day there and then. The weaker second pair had little difficulty in gaining the necessary points for victory.

Unfortunately U.C. then scored three quick goals as I.C. crumbled. However, in the closing stages, the college team pulled themselves together and pulled back to a more respectable score of 5-3. The main difference between the teams was the superior shooting power of the U.C. team.

Soccer Cup

2nds SWAMP U.C.

On Saturday 12th February, I.C. 2nd XI met U.C. in the U.L.U. Reserves Cup at Harlington. Although heavy rain had been falling all week, the pitch was in great condition. U.C. kicked off, started at a surprisingly fast pace, and came close to scoring in this early phase of the game.

Gradually the strength and experience of the I.C. team told its tale and they began to dominate the game. The home team eventually scored when a two man move culminated in Whittle scoring from an acute angle. Grundy picked up the ball on the edge of his own area, slipped the ball to Smart who was on the half-way line, and he in turn sent Whittle away with a great through ball and he finished the move in great style.

After this opening goal, I.C. never looked back, and it came as no surprise when they increased their lead. Again a brilliant piece of football by White gave Whittle an easy chance which he accepted gratefully.

After the interval, the game became more even, and Hewardine in the I.C. goal was called upon to make some daring saves which were competently executed. I.C. increased their lead

by a somewhat scrambled goal, Whittle again being the scorer. Towards the end, tempers became somewhat frayed, but the home defence, which had been outstanding throughout, kept calm, and I.C. finished easy winners.

Bob Grundy

6th ALSO THROUGH

IT WAS AN equally successful day for our only other soccer team left in the cup competition. I.C. 6ths (the soccer clubs answer to frolicking flagins) beat West Ham seconds (Tech not F.C. of course) by 7 goals to four.

The journey through to the final was not always as easy as the score might suggest. For the first half-hour the honours were even, I.C. left half Brian Hall sending two unstoppable shots into the top of the net from the edge of the penalty area. However I.C.'s defences, in spite of backs West and Walton, (motto: they shall not pass), were equally unlucky and the score became 2-2.

The rest of the game went our way, with the score leaping to 5-2, and I.C. having all the game. An injury to one of the opponents near the end proved a turning point, for after that the score oscillated to the final 7-4. The feeling that it was somehow not their day and a disputed penalty (aided by the comments of the heretofore mention full-backs) brought out West Ham's worst manners, and the match developed into what Don Revie calls "a hard physical game"—team Captain Alan Robins has another word for it, and can still show you the scars to prove it.

FINALS-mar 12

both morning games

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FELIX WEEKEND DEADLINE

South America

The past behind the present

"ALL generalisations are suspect, including this one" (Dumas). With this quotation, Dr. Blakemore began his lecture on Latin America, the second of a series of six.

In it he proposed to discuss the historical causes of the present sociological, economic, and political situations of Latin America, in a generalised form because of the short time allowed.

He began with a short description of the set up in Latin America before the wars of independence which lasted from 1810 to 1826. The whole of the continent, apart from Brazil, was under the Imperial rule of Spain. The continent was divided into states, which have remained much the same to the present day, and each state was ruled by a Viceroy sent out from Spain. The Spanish governed through a bureaucracy, but at no point were the Creoles (Spaniards born in Latin America) allowed to take part. The whole of the Civil Service came from Spain.

The continent was exploited by the Spanish for its resources, both agricultural and mineral, and in exchange was used as a market for Spanish manufactured goods. Thus at no stage in its development was Latin America industrialised in any way.

After the wars of independence, the whole continent was left with no ruling class, no Civil Service and no industry. From then on, government was provided by the "strong men," meaning dictators or presidents backed by the military. Power revolved round the president, inhibiting local initiative and local development. Government continued as under the Spanish, through bureaucracy. Bribing became a recognised way of achieving aims and continued to the present day. Dictators came and went, but this did not affect the countries

Boat race at Q.M.C.

JOHN RICKARD, president of Q.E.C. Union, hopes to stage a beer-drinking match between Q.M.C., I.C., and Q.M.C. to support Q.M.C. Carnival.

Original arrangements were that it was to be held in I.C. Union Bar on Monday, March 14th. But, due to another function's coincidence and a wish to charge admission, the location is to be Q.M.C. Union Bar. The teams are to be supported, financially (and otherwise), by the College Unions, who may enter as many teams as they wish.

"Boat-Race" rules are to be observed—the first members of each of the teams drink their first pints together, then the rest of the teams take turns consecutively, and so on through the teams five times. The first team to finish wins a drinking-tankard.

Volunteers see Adrian Fletcher.

in any way. "The great significance of Latin American revolutions is, perhaps, that they are not at all significant," is how Dr. Blakemore put it.

The economics of these countries continued in the same way as under Spanish rule. Only after the Second World War, when the market for raw materials suddenly developed did Latin American countries begin industrialisation, and by that time it was too late to prevent the economic difficulties into which they had fallen.

The past behind the present Latin America shows that most of the troubles that they have at the moment can be blamed on the unenlightened 300-year long Spanish rule. This was the conclusion reached by Dr. Blakemore's interesting if over-generalised talk.

P. Combes.

Card Checks

A UNION CARD check, conducted by Mike Scott, President of RCS, was held on Saturday night in the Union, and a number of people were refused admittance to the Hop. This action has been taken as a result of the recent trouble at Hops, and checks are to be carried out by the Constituent Colleges in turn.

A card check on Saturday, 19th, at which thirty people were turned away, passed off without incident.



Photo: Colin Harrison

Southside blockaded

Council to act?

Party disrupted

Chapell elected Mr ICWA

ROGER CHAPPELL, vice-captain of the IC Fugby Club, was elected Mr. ICWA for 1966/7 at the ICWA Party last Wednesday.

The competition for the post had been intense. In his canvassing Richard Jackson even went to the extent of sending Valentine cards to all the members of the ICWA corridor in Beit Hall.

The party was, however, marred by the irresponsible behaviour of a number of "gentlemen" attracted by the free beer on tap. Many seemed to be celebrating the IC Rugby team's victory to get into the final of the Gutteridge Cup.

ICWA President Jane Caudwell had some difficulty in controlling the mob, with little assistance from other student officers present.



Photo: Colin Harrison

Pay rise for academic staff

'last at least a year'

A FIVE per cent pay rise for University teachers was announced by the Department of Education and Science. The increase will cost about £3,250,000 p.a., and should last for "at least a year."

Present Scales are assistant lecturer £1,050—£1,275; lecturer £1,400—£2,505; reader or senior lecturer, up to £3,250; Professor £3,400—£4,750, with an average of £4,000.

KASHMIR

The Volcano in dispute

"THE VOLCANO will once again erupt"—so predicted Mr. Nasim Ahme, London Correspondent of Karachi DAWN—"if India closes the doors of peace."

"There is no volcano and it will not erupt unless Pakistan creates one" was the reply of Dr. Selvanakar of Madras HINDU. Both were, of course, referring to Kashmir in a meeting organised by the International Relations Club and India and Pakistan Societies on 17 February.

After a brief introduction by Prof. Hugh Tinker of the School of Oriental and African Studies, who chaired the meeting, the two speakers put forward the respective cases in terms all too familiar. The discussions were full of usual boos and hisses and the speakers used the occasion quite humorously to refute each other's points.

One neutral observer wanted to know the wishes of the Kashmiri people. The chairman searched in vain for a Kashmiri in the audience; "No false sim," somebody warned.

It was a pity, however, that the two sides tended to stick to the usual points of the argument and no hope of solution came out. As Prof. Tinker summed up, "It appears that the present generation has failed. I hope the coming one will not."

NITIN SOM.

Theft from Queens Tower

TWO MEN have been sentenced to six months imprisonment for the theft of lead from the Queen's Tower, last Tuesday fortnight.

The incident occurred between 6 and 7 p.m. as the night Security Guards were coming on duty. The thieves were spotted by a Pakistani guard in Chemistry.

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FEB. 22nd. 1966.

EDITOR: T.P.C. Doe.

Assistant: Brian Rich.

COLLEGE DEVELOPMENT REJUVENATED---GREATER USE OF TELEVISION.

An appeal may be launched in the near future to obtain money to buy more premises on the West side of Prince's Gardens. This plan, the Rector Sir Patrick Linstead Announced to the Union on Monday, would give I.C. all sides of the square. The property thus obtained would most likely be converted into flats for married postgraduate students and research assistants---a project, the Rector explained, close to his heart, and a need so far not satisfied.

The Rector was doubtful whether more language laboratories would be installed in the College. However it emerged in questions that the use of television teaching methods is likely to expand---the Electrical Engineering building is already largely wired for sound, and other premises will be wired in the future. Sir Parrick did not reveal where, when or if more studio accomodation would be made available.

A new giant computer-- as recommended in the recent Governmental Flowers Report-- is to be installed at the top of the Mechanical Engineering building, but some of the equipment needed in its operation "hasn't been invented yet".

Next month will see the building programme get under way again after the six-month standstill imposed by the Government last July. The first job to begin will be the isolation and shoring up of the Queen's Tower (any suggestions for " what to do with a 150-foot tower " should be addressed to the Rector).

Car parking facilities will be in a state of flux throughout 1966. The western end of Imperial Institute Road and the Prince's Gardens car-parks will be partly closed while the West Precinct, College Block and New Hall are under construction. More space in front of Southside--diagonal parking-- and by the ACE extension will compensate for this. The Rector forecast a net gain of about fifty parking places this year.

PANCAKE DAY:

Yesterday afternoon at 1-30p.m., 'King' Fletcher and his lackeys performed the ritual dance of the waters in the Beit Quadrangle. The occasion was of course the Pancake Day race between I.C.W.A. and the Union Exet.-- the actual run was as chaotic as ever, and, as ever, I.C.W.A. won by a vast margin. The water was supplied by the hoses in the Union, with additional help from dustbins of water expertly handled on the various roofs round the Quad. The most interesting 'happening' was the colour change performed by Miss Ann Hay, in the middle of her lap from being a blond she change to a sort of black, when covered with a mixture of unknown composition poured from the Union roof.

After the main event the water frolics continued until nearly 2-30, but by that time it was raining anyway.

T.P.C.D.

I.C. ORCHESTRA:

Last Monday night, 14th. Feb., the I.C. Orchestra gave a concert in the Union Concert Hall. The varied programme included a Bassoon Concerto in F by Weber, soloist Sam Stowell, and a piece especially written for the I.C. Orchestra.

This piece, entitled "Introduction Allegro and Interludes", had been written by the orchestras professional conductor, John Rose, whilst travelling on a train; but nevertheless it was a very enjoyable work.

The audience and the orchestra recieved it very enthusiastically, although according to Mr. Rose this may have been the first and last performance in this country. The orchestra is planning a full evening concert for next term-- possibly including a performance of "Peter and the Wolf". The quality of the music is certain to be high, and music lovers in the College can be assured of hearing good music, well played.

Pete Wallum.

FOR SALE: The Late News Editor is sad to announce that his famous 1961 Isetta Bubble-car is now for sale at the bargain price of £65. The ideal student vehicle with 55-70m.p.g. and 5m.p.h. Reason for sale is that he has purchased a racing Allard. Contact: T. Doe, Union Rack or Zoology Department

CHRISTIANITY VERSUS INDUSTRY.

The impression that many of his listeners took away with them from Mr. George Woodcock's talk in Christian Teaching Week, was that his attitude toward Industry was not tempered by Christianity at all.

On the topic "Christ in Industry", the General Secretary of the Trades Union Congress had hardly anything explicit to say. This impression was built up from such assertions as: "Voluntary negotiated wage agreements are not in all circumstances to be considered morally binding by the trade unions". He rejected the concept of a "fair wage" on the grounds that in practice such a motion was without value. He likened the relationship between the two sides of Industry to that which exists in marriage.

Mr. Woodcock admitted that he was "the most shuffling compromiser there is", but on the whole his views were in the best humanist tradition which is the way Christianity must manifest itself.

He supported an incomes policy as it would lead to the advancement of lagging sections of the working community, and provide more resources for public enterprises. Justice may not come out of the bargaining process which is Industry, "but something comes out which enables us to cling together".

Mr. Tom Chapman, of the Church of England Board of Social Responsibility and an ardent trade unionist, speaking at the same meeting, reminded the audience that the individual members of the Church must involve themselves fully in the industrial situation in which they find themselves. Only in this way would the function of the Church, "to turn the eyes of men to God", be realised.

L.F.J.

MATHSOC.

Do the Mathsoc. consider their members unimportant? Professor Herman Bondi was due to address the Society on St. Valentines Day, and notices advertising the meeting were put up around the College and the Union. However, owing to the threatened rail strike, the meeting was postponed, but the notices were left up and a large number of people made a fruitless visit to the Maths. Dept. in consequence.

SHORTS:

CARNIVAL BULL SHEET: The Editor of the Bull Sheet would be very grateful to receive jokes or articles for the Sheet via the Union Rack.

Chris Hocking.

"NOT A DROP LEFT:---or anything---the Crush Bar at the Hop on Saturday ran absolutely dry before 10-30 !

John Grout.

FLOP: Mike Brodie's party at the Hanover Lodge, 150 Park Road, was a dead loss.

SENNET: What is dear Auntie Sennet up to in this weeks issue? What with this and that and very little else---I suppose nothing ever happens down that way, but to devote the whole back page to debtors (Murderers!!) and an innocent women--what next?

BARS: The bars in the College are closing five minutes early, because of the bus strike.

Jack, the barman in the Union, handed in his notice to Mr. Seaford on Monday morning after having an argument with Howard on Saturday night.

CHAOS: It was reported to the press room earlier this evening that Jezette, our pedal-car entrant for THE race in a fortnights time, had been stolen from the Physics building the night before. Further if the said car was not returned forthwith the the men in blue would be informed!!! It now appears that nobody stole it, the cleaners just moved it out of the way.

UNION MEETING: Ladies and Gentlemen of Imperial College do not forget the Union Meeting at 1-15 on Thursday. Loans Concern YOU.

APOLOGY x2: We wish to apologise to Mike Scott for underestimating in the last issue the role he played in securing a peace in the Chemistry exam crisis.

I.W.

A member of the Executive has complained of his name being used to "fully support Adrian Fletcher's views" expressed in the last Late News, the Editor apologises and says it was due to one member of the Exec. speaking on behalf of them all.

DONT FORGET: Guilds & Mines Carnival 4th. March. R.C.S. Smoking due Thurs. 24th