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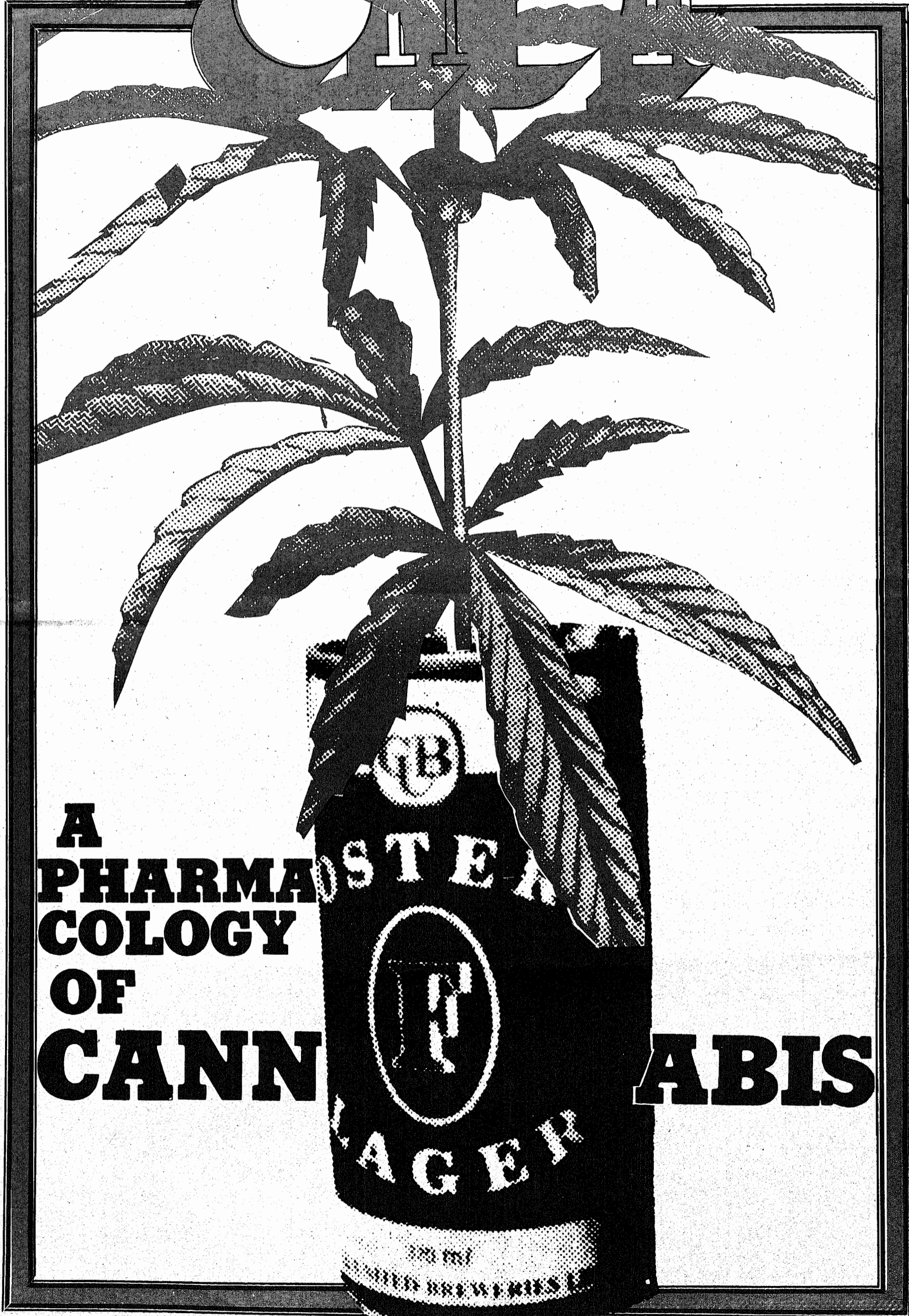
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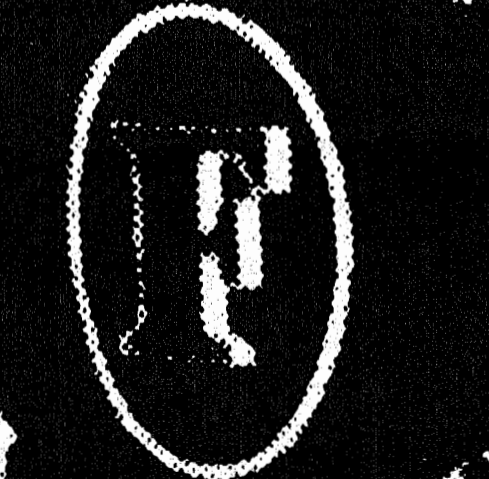
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Library Note : On Dit, Vol. 46, No. 20, Oct 1978



**A  
PHARMACOLOGY  
OF  
CANNABIS**

STEARNS



FACET

# On Dit

Volume 46 Number 20

## Getting Away From It All

While some of you may be thinking that On Dit, or some of its columnists are getting away with too much, that's not the subject of this column although it no doubt it will gain further notice. No, the subject of this weeks monologue is getting away from etc. etc. etc.

For a start, the Editor got away from On Dit this past week, and thus this issue is late. (But you didn't notice did you?) - as the Union Survey published this week shows how much On Dit is read. Secondly, it appears that we are getting away from petty student politics - despite last weeks rave and fiasco.

But finally, you're probably at

the stage of getting away from On Dit and into study. Last week's AUS rally represented the first slirrings of Student Activity on this campus for 1978, badly organized as it was but it was a stillbirth. The first and last fling for 1978. It was gratifying that so many people turned up. The decision to hold the rally was made less than a month before. The AUS newspaper "National Student" followed National W into a third term debut but was only half distributed and On Dit got the day wrong. And it came at the time when people are getting away from it all and down to work.

Which prompts the question away

from what else? Was there enough student activity this year for people to miss, now that the traditional time to cease activity and turn to work has arrived. The Union Survey, of which we publish highlights this week (as mentioned above) gives a few surprises. Just on half the student population participates in clubs and societies of the sporting and non-sporting kind. The Sports Association clubs were the lesser proportion of clubs joined which must have surprised some. So the voluntary level of student activity seems healthy enough, but it's a pity that the activities of all these small groups tend to be hidden from the campus community. The problem is not that we're not active but that

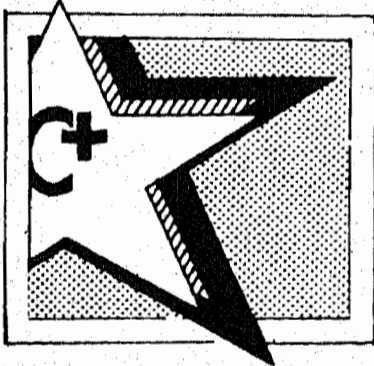
we're fragmented. Food for thought for On Dit next year there.

One item that the Union Survey appears to indicate that students would like to get away from (and not just in third term) are the "political" activities of the Students Association. Doubtless a lot of comment and argument will follow from the ~~these pages~~ a pity the question was ambiguous. Non Welfare political activity that the survey asked about arguably does not include agitation on education, funding, teas, womens and homosexual rights that forms the bulk of AUS campaigns for example.

You might ask how I can allow So all that will come from that

question one imagines is arguments and....err....political debate.

As On Dit fades from your consciousness, or becomes the tiny bit of relaxation reading between hunks of study, one hopes that the question of whether third term was a period of "Getting away from it all" or not holds your attention for just a few moments at least. For if student activity is so low as to merit nothing to get away from at the end of the year, it reflects very badly on us as students. If there is nothing in what we have studied or discovered that has stirred us to action, concern, or even discussion then there is a good possibility we have learned nothing.



### Credits

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Thanx to:-  
Gordon Laverick, Juliet Davies, Mark Burford, Kerry Hinton, Bulstrode Whitelocke, Karin, AUSST<sup>o</sup> Australia Party, Uniting Church Synod Office, Greg Ede, Mrs Osman, Nonee Walsh, Jane Mitchell, Colin Pickering, Graeme Newcombe, Lavatory O'Seat, Simon Stretton, AUS Melbourne, Peoples Voice/Farrago.  
Michael Danby, Simon Marginson Robert Dunne, Geof Hanmer, Scott Wilson, Steven MacMillan.



### BILBO

Which personality recently featured in On Dit said "We can expect a writ during the Christmas holidays. Ho hum, another day, another threat.

Note to mystified readers: yes KERRY HINTON was the student heavy who in last weeks Bilbo was reported as saying that bending the constitution is what "we are paid for...."

Bilbo understands that the police were present on campus last week. Seems that someone was attempting to make an unauthorized withdrawal from a campus bank.....

Organizers of a proposed end of year show to be held at Adelaide Uni.(but for all the campuses to participate in) are believed to be investigating/negotiating the appearance of a well known international rock act.

Bilbo understands that forgeries of tickets to Prosh events eluded the organizers. The Ball and all night films in particular was vulnerable. People disagree whether the Prosh Brekky was free to some forgers. Bilbo of course is shocked by all this blatant dishonesty, which seems to include several off campus events as well.

The Students Association Executive is understood to be a little nervous about their new member. The new Media Committee Chair has been seen wearing badges put out by a well known left wing faction. Which just happens to be a faction rivalling that of a number of Exec members. Readers will be relieved to know that the fears of the S.A.U.A. Exec are unfounded. But one or two Exec members had an anxious few days in the saga of the 'Plastic Maoist'.

Dear Bilbo  
You may not be aware of it, but there is an easy simple solution to a lot of peoples problems. If the people on the receiving end of the Non Dit writs were to bring legal action against the Church of Scientology there would be a wonderfully convenient trial set up. Everyone could then drop everything. Good hey!  
Yours naively  
A. CLINIC

# Editorial



# POLICE TELL STUDENTS WHERE TO GO ?

Six hundred students who attended last weeks AUS rally in Adelaide took part in a street march, but had to rely on the police for directions. The march followed a rally in Rundle Mall called by AUS and widely advertised on campus. Students from Adelaide and Flinders Uni and as the "Advertiser" put it, suburban CAE's, attended with a sprinkling of lecturers.

The rally, at the Rundle Mall Fountain was addressed by David Tonkin (no relation) a teacher, Anne Gooley (AUS SA Region Exec. member), a representative of the Unemployed Workers Union and Mark Burford, AUS Regional Organizer. The motion to March, through the city past the Stock Exchange and the Commonwealth Treasury was moved by Adelaide Uni student Michael Dunn. Outlining the route, he explained the march would underline protest at the Federal Budget and those that it served. The motion, endorsed by Mark Burford was passed overwhelmingly (although votes against were not called for).

The march proceeded to the Stock Exchange easily enough but had difficulty finding the Commonwealth Treasury. Amazingly enough the marchers asked the police - who, not knowing themselves, passed on the request to their Headquarters. Thus taking its direction from Police Headquarters the marchers proceeded to the National Bank, King William Street. Nine floors above the speakers could point out quite Authoritavely. was Mr. Howard's local representatives...

During the long march and answer to the question that has been on most people's lips "What is the Chant of Malcolm Fraser?" was answered. The favoured chant was "What do we want?" "Education". When do we want it? "Now". "How do we get



At the Rally.  
The Message

**BASIC WAGE \$11**  
**POVERTY LINE \$75**  
**MAXIMUM TEAS \$45**  
**ONLY 13% RECEIVE MAX.**  
**WE DEMAND A LIVING**

it?" "Fight for it!" Quite Remincent of moratorium days, really. One incident marred the march. One marcher, handing out pamphlets was abused by a befurred and bejewelled bystander, and had her pamphlets knocked to the ground. Where upon the "bystanders" companion set about the student with a newspaper.

The demonstration was much larger than the AUS organizers had secretly feared, almost equalling the optimistic public forecasts. On Dit's figure of 600 is offered in a conservative vein - and the token liberal on our staff agrees with it. Reports from the eastern states indicate that the Adelaide rally numbers were greater than the others combined.

## STUDENTS RETAIN DISCOUNT

An eye for detail by a certain staff member of the Students Association office staff has ensured that students retain the 12% discount on books brought early in the year from the Union bookshop. This discount is worth \$9,000 to students. Eagle eyes noticed that the bookshop ad for the 1979 Union Diary omitted the discount and enquiries showed that the bookshop board was consid-

ering axing the discount. Student board member, Terry Connolly with the help of academic staff representatives made sure that the proposal was dropped. And miraculously the money was found - in the banking interest of the bookshop reserve. The Union Secretary Mr David Muir is especially adept at discovering reserves of capital when pressure is applied.....

## ABORTION ESULTS

The National results of recent abortion polls are in, and it appears that AUS is firmly in favour of abortion. (Which is no surprise).

The original set of pro bortion motions succeeded nationally 2 - 1. These defined a strong pro-abortion policy and allocated money to an abortion or pro-choice campaign. A second poll which proposed a 'no policy' move for AUS on abortion was defeated soundly 4:1. Which in light of the earlier results for the other questions was no surprise.

# News

# CANNABIS

# Alice in Wongland



The Adelaide University Society for Cannabis Law Reform was finally formed after a series of abortive meetings, on Friday 22nd September. To mark this occasion On Dit this week carries the article 'The Pharmacology of Cannabis'. Perhaps more importantly the occasion means that for the first time in years a student cannabis group is active on this campus. In the past legalization campaigns have been

run by political clubs (as a drawcard for members) or by people with...err um...a financial interest in the sale of mind altering substances.

The executive of the club consists of - convenor; Noel, Secretary; Graham Bakeer, Honorary Treasurer Noel/David Walsh (protem) and CSC delegate is Chris Brown.

## SAUA

## WHEN MEETINGS ARE NOT

The Students Association is at present puzzling over the question of General Student Meetings that fail to reach a quorum. The quorum was recently increased to 250 students from 100 and a number of lawn meetings since have failed to get the numbers.

Which can be quite embarrassing as AUS asks the opinion of the Students Association, and they don't know what you would like us to say.

While some of the questions put to general student meetings are dreadfully boring, others have some claim to relevance. For example - Education Fundings, whether or not we should have a travel company, Abortion; are all important. These questions in the form of AUS extraordinary resolutions used to determine AUS policy) all merit attention.

Its not only embarrassing when nobody turns up, but it also leaves the Students Association in a bit of a fix, in that it then has to decide how to use Adelaide's AUS votes. The larger quorum (3% of students as opposed to 1.2%) has replaced the danger of 'stacking' a meeting with the problem of arranging a quorate one. And although they are elected by , in the order of 12% of students, the SAUA executive feels diffident when it comes to casting policy votes for you.

(Although some would say that what an elected executive is for). And then one could ask is either of those bodies representative although biased, 12% is a respectable proportion.....of voters.

The dispute centers about the question of whether the students association should act as a representative 'parliament' or a participatory 'collective'. On top of this the failure of GSM's means that their aim of stirring up student thought and activity is unfulfilled.

The immediate problem facing the SAUA is what to do in instances where a GSM fails to meet a quorum. An aborted policy held that the proportions of a vote in a small meeting should determine how Adelaide's votes are cast - but this could mean relying on the opinions of 20 people on the lawns on a rainy day....The Students Association will be trying to formulate an answer to this problem over the next few weeks. It could have long term effects on the Students Association in the future.

To this end the executive extends an invitation to its meetings which are held nearly every Monday at 6 pm in the Students Activities Office to anybody who wants to come along and comment.

### CL 7 - A MAD TEA PARTY

There was a table set out under a tree in the land of Wong in front of the house and the Marchhare, the Mad Hatter, the 'peoples' president and a prominent female member of a social minority group were having tea at it. A doormouse (a friend of the vast majority of people) was fast asleep but two of the others were using it as a cushion resting their elbows on it and talking over its head.

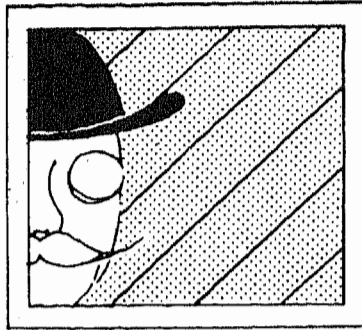
The table was a large one, but all were crowded together in one corner of it. 'No room! No room!' they cried out when they saw Alice coming waving their AUS (Adolescences United in Sandpits) badges at her.

'There's plenty of room!' said Alice indignantly and she sat down in a large armchair fully paid for by the people's money at one end of the table.

'Have some AUS wine' the March hare said in an encouraging tone. 'No No she can't stay' said the President in horror 'her views mightn't be those of our own'. He fidgeted with his moustache in embarrassment at this outburst but soon returned to his wise gaze over his glasses. 'Nonsense' said the female member 'we need another member for the women's movement' her braless form came into view more distinctly as the March hare once again cut some more of his hair. The Mad Hatter rolled his eyes at this welcome, but all he said was 'why are the views of AUS, the views of the people?'. The Mad Hatter liked quizzes, he himself was one.

'I give up' what's the answer? Alice replied instantly glad they had begun with riddles.

'I haven't the slightest idea' said the hatter not sure what he had asked. N perturbed Alice then asked her own riddle. 'Why are you people always right and everyone else wrong?' Even before finishing her question the other 4 almost frantically replied in



Vincent Wong

unison, 'But we represent all the minority groups on campus'. The president followed this up with a grunt and the mad hatter looked to the women for assistance.

Alice felt dreadfully puzzled, their remark seemed to her to have no sort of meaning in it, and yet it was certainly English. 'I don't quite understand you' she said as politely as she could.

'No you don't, the minority groups are always being got at' the female said almost hysterically. Her milk bottle stature had turned almost carton shaped as she tried to grapple with complexities of Alice's presence.

Alice became angry, 'So What' she said, 'The Gay Soc has what 30 members? Your women's movement can not even muster up a quorum for their reptitious GSM's, only a small fraction of all students have ever used the Craft studio, less than 1/3 pf Wongland's people read a complete Peoples Paper, the vast majority of inhabitants think the peoples body too remote and 3 in 4 say the people's body should not be involved in political activities in Wongland.

'I told you we shouldn't have invited her' said the March hare cutting more hair and interrupting Alice. The female spat at Alice and the president grunted some more and combed his hair.

Inspired by the stunned silence that followed. Alice continued 'And what happens here in Wongland!. The people all they hear is news of repression, abortion, women's rights, homosexuality, the craft Studio and if you say something in conflict to these minority concerns the People's

Paper strikes you out and why? Because you are expressing the real view of the people of Wong, the disillusionment of all with you people and your very silly tea parties in your fantasy land.'

'You misogynst' roared the president and the female who were never known to differ. 'We will never invite you to another of our tea parties.'

Nor I chipped in the Marchhare! Nor I said the hatter uncertainly before asking his companions whether it was all true, The Doormouse pricked up its ears in interest but the female tried to hit it on the head. This time she missed. In disgust Alice walked off but none of the others took the least notice of her going, they just sat there quarreling, telling each other than they were right and that they were important and that everyone thought so and that they would get even with Alice for ruining their tea party.

The mad hatter however never renounced for his sanity crawled away from the table and came after Alice crying 'why wasn't I told the truth before' cursing the March hare for having tricked him for so long.

Is Alice right or Is she Wong? Do the members of the 'Adolescences United in Sandpits' tea party really exist in a fantasy world or are they real life characters last in their own importance?

Will the Peoples Paper remove Alice's views because they don't conform (was Bilbo under the table?) or will the Wong land rag print it and face not being invited to future tea parties?

## PRESS SURVIVES

The fledgling Adelaide University Union Press appears to have survived a threat of closure. The Press is operated by the Union Bookshop board and has operated for two years. During that time a range of books, poetry to politics, has been published. Two publications - in association with the labor club, the Evatt memorial lectures have been the most successful.

It was considered by the bookshop that a crisis point had arisen in the history of the Press. Either the operation could continue to expand, be restricted in size, or cease. This was due to increased pressure on the bookshop staff-including one full layout person - was increasing. The Bookshop Managers role as editor was taking more and more time, while

at the same time the risk of a book 'bombing' was growing.

The matter was referred to the Union Council for advice and a recommendation for a restricted out put was received. The bookshop board, although independent will probably follow the suggestions which include use of internal facilities where possible and an editorial board.

# NEWS

# POLICE TELL STUDENTS WHERE TO GO?



By the time the march was in full swing the crowd had swelled to 1000.....



# The Senator Meets a President

Union Chair Kerry Hinton recently held discussions with Senator Messner (Lib. S.A.) and fired the first shot in the Unions campaign to 'sell' student unionism to the federal government. Senator Messner's main concern, reports Kerry, is AUS's 'top down' style in which power is concentrated at the top. He was sympathetic however to the problems of low voter turnout at elections. Messner said that 'bone fide' activities directed towards student welfare and an orientation towards campaigns to do with education (funding, access etc) would not trouble him. The senator did not like student money going to liberation fronts and other activities which did not directly benefit students.

Kerry informed the senator, (who appeared to have been fed old

information), of the tightening up of AUS's election requirements and how what AUS now spends its money on. (With a drop in the level of funding, and several court cases - AUS has cut back on many activities that people have objected to).

The Senator said that the answer is to increase the percentage of students voting. Which presumably would mean that he feels that students would agree with him; perhaps a facile assumption. A 20% voter turnout would satisfy the Senator - an increase from the 12% experienced in the annual elections of the past few years. As to how to achieve the higher vote a few of the ideas floating about the students association were mentioned, amongst them the idea of a rebate on the union fee.

*wanted*

JENNIFER HARGREAVES

42 1956 after 6.30pm

Wants people who have had ONE cartilage operation (menectomy) on ONE knee, 6 months ago or more. Other knee must be free of surgery. Requires 1/2 hour of person's time for her study. If anyone can help contact her at above number. N.O. Unpaid.

## Think Again Uni

The University Council has returned a list of constitutional amendments back to Union Council, with revision and in one case a 'try again folks'. University Council has veto power over proposed changes to the union constitution. The regulation that has been questioned must severely give the union power to discipline its members. The University Council has pointed out that the draft gave the union power to be both judge or jury and prosecutor this would have had the effect of denying a defendant 'natural justice' be they ballot-rigger or bar room brawler.

Collection of union fees was raised at the last union council meeting by Mr A.E. Shields, the University Registrar. The contentious objection clause, which permits a student to avoid paying the fee, will need to be redrafted following changes to the Union status within the University. At present a contentious objection is restricted to those, who out of an act of conscience cannot pay the fee - which has been taken to mean for religious reasons only. Given the University's right of veto, and given also the anti-union activity of some Eastern States uni administrations in the light of political pressure from government, it will be interesting to see if the clause is widened.

# PRIVACY AND UNI FILES

Council has established a small Committee on Access to Personal Records to consider the possibility of introducing a system into the University which would permit access by individuals to information about them stored by the University.

Council has asked the Committee to:

Establish the nature of information held in the Offices of the Registrar, Academic Registrar and Bursar concerning individual staff and students and the extent to which this information is at present accessible to the individual concerned.

Consider and report on the adequacy of present practices adopted to control access to that information by other individuals or organizations inside or

outside the University.

Consider and recommend any appropriate changes in present procedures which limit access by staff members to their personal records including those relating to their appointment, promotion and general performance of duties.

On receipt of advice from the Education Committee, consider and recommend any appropriate changes in procedures which limit access by individual undergraduate and postgraduate students to their personal records.

The Committee can consult with people and bodies it deems appropriate and must pay due regard to possible changes in administrative procedures and demands on administrative staff resources within the

University which could result from any recommendations.

Council was told that it should be noted that a great deal of information on staff and students was already accessible to the individuals concerned and it seemed desirable to inform people of the present situation.

The Council Committee would welcome comments and suggestions from any member of the University or any committee of the University on any aspect of the committee's terms of reference. In particular, the committee would be glad to have comments on the need to maintain the confidentiality of referees' reports on candidates for appointment to positions in the University, or on applicants for promotion within the University.

Comments are also invited on the twin aspects of 'access' and 'privacy', i.e. the desirability of an individual having access to his own personal record, and thence for that record to be available for consultation by certain other members of the University, or to be communicated to bodies outside the University in certain circumstances.

If you feel strongly about any of the above issues, contact me, Kerry Hinton, (the Students Association President) and inform me of your view. I am representing you (thru the Students Association) on the Committee and will present your views to the Committee. I am contactable thru the Student Activities Office in the North Eastern corner of the cloisters.

It's your file which could decide your future so make sure it's correct.

# NEWS

# The **AUS** Songbook

## UNEMPLOYMENT PAY

Farewell to old college forever  
 Farewell to my old pas as well  
 Farewell to the well known old Union  
 Where I once used to frequently dwell

Chorus:

Singing too-ra-lie-oo-ra-lie addity  
 Singing too-ra-lie-oo-ra-lie ay  
 Singing too-ra-lie-oo-ra-lie addity  
 For we're bound for enemployment pay.

There's Fraser who is our commander  
 There's Howard and all the shits' crew  
 There's the first and the second class citizens  
 Knows what we poor students go through

Chorus: (repeated)

T'aint leaving our studies we care about  
 T'aint cause to the dole queue we goes  
 But because our less affluent gentry  
 Hops about with a loan on their toes.

Chorus: (repeated)

Now all you young bludgers on scholarships  
 Take warning from what I've to say  
 Make sure Mum and Dad have got dollarships  
 Or you'll join us on unemployment pay

## PIE IN THE SKY

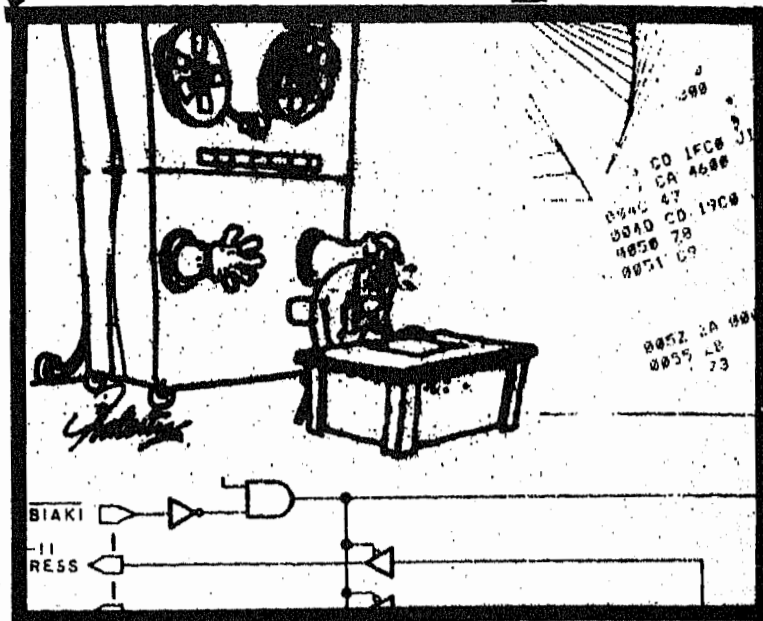
John Howard on budget night  
 Tried to tell you what's wrong and right  
 But when we asked about something to eat  
 He answered with a voice so sweet

Chorus:

You will get bye and bye  
 In that glorious land above the sky  
 Work and pray, live on hay,  
 You'll get pie in the sky when you die (that's a lie)

And the Liberal students they play  
 And they sing and they clap and pray  
 When they get all our votes in the drum  
 They call us all bludgers and scum

# Microcomputers



The establishment of the Adelaide University Micro-Computer Club. (AUMCC) on Monday, 2nd October is something of a first, in South Australia anyway. We are the first and only (temporarily, I hope) Amateur Computer Enthusiasts group in S.A. to my knowledge.

A micro computer is a computer build around a micro processor. The 'Micro' refers to the size of the components not their power, and commercially available units now offer computing power on a scale of early "mainframe" computers, at a size and price which puts them in reach of ordinary people.

The aims of the club are basically to encourage self-education, and awareness of the technological and sociological implication of microcomputers. We wish to encourage consideration and discussion of their implication in a rational manner, a manner not to the fore in the present public "furor". This is typified by a national daily newspaper, whose luddiler like attitude shoes either an unrealistic attempt to deny microprocessors existence or a sensationalist attempt to lift sales; either of which is reprehensible. If the Australian is so unconcerned with their "Computer Holocaust", why then is their phototypesetting computerized? (Editors note: It is not.

The Australian is set in metal type).

Computers are undoubtedly going to create unemployment greater than the new support industries employ. The question remains is this necessarily bad *per se*? I feel that a dramatic rethink of what constitutes a productive member of the community is needed. Either a person will feel cheated out of a job by an incomprehensible machine, or will "liberated from possibly dreary soul destroying work by a device whose operation he understands". (WARNING: The preceding is a gross and emotive simplification).

This raises enormous questions of how the unemployed support themselves, etc. I have no answers at the moment - these will only come through discussion and thought.

Thus the AUMCC will in part consider these and other problems in its own small way. We hope to be able to do such things as buy a small computer for members use, have some sort of instructional programme, subscribe to a magazine such as BTTE etc. The plan of events over the next four months will of course be decided by club members of the very very young club. Keep watching the noticeboards for details.

## POSITIONS VACANT

S.A. AUS REGIONAL ORGANISER.

Applications are now open for the position of South Australian Regional Organiser for the Australian Union of Students, for 1979.

The position involves liaison between AUS, the national union and its local member campuses. A working knowledge of student affairs and student unions is

desirable. It is a full-time position, payment is the basic wage. (\$121.00 p.w.). The applicants will be subject to election at a Regional Conference in the first week of November.

Applications close Friday, 20th October at 5.00 p.m. They should be made out to the Regional Organiser, S.A. Institute of Technology Union, North Terrace, Adelaide.

# NEWS

# *what you think*

# Union Survey

An interview survey of full time, first degree students of Adelaide University was conducted from 23rd June to 17th July 1978. The sample of 386 respondents (approximately 7% of the target population) were selected on a random cluster basis (according to sex), and interviewing was carried out by university students. The survey was commissioned to give the Union Council feedback on issues ranging from the Unions image, the statutory fee, student media, the SAUA and (naturally) the Union Catering department.

On Dit presents below some of the highlights of the survey. One factor that came through in each question however, was the strong correlation between male and female response throughout the survey. The order of accuracy is in the order of 5%. The survey cost the union only the cost of the interviewers, the analysis was carried out by a market researcher friend of the union who deserves a free plug, but would probably be too embarrassed.

### 1. The Unions Image

The survey showed that the Union is perceived in a negative manner by most of the respondents. 45.6% of respondents described the union as 'remote', and a very large percentage saw it as 'bureaucratic' and 'inefficient'. The major 'positive' attribute used i.e. 'welfare orientated' can be interpreted as a 'functional' attribute which describes what the union does or should do. As less than a third of respondents used this term to describe the Union, this suggests that the negative image held by students is very strong.

Attributes used to describe the Union  
(% of respondents in each category)

Negative Attributes	Overall	Male	Female
Remote	45.6	46.4	46.9
Bureaucratic	32.9	38.3	24.2
Inefficient	26.9	30.2	21.1
Impersonal	25.1	23.0	29.7
Complicated	22.8	23.4	23.4
Elitist	4.1	4.4	3.9
Useless/Irrelevant	3.9	4.8	2.3
Political	3.6	4.0	3.1
Expensive	2.6	3.2	1.6
Positive Attributes			
Welfare-oriented	26.9	25.4	31.3
Helpful	17.1	17.7	17.2
Friendly	14.2	16.1	11.7
Participatory	11.1	12.1	10.2
Efficient	10.1	10.9	9.4
Necessary	1.6	2.0	0.8
Others; obscure, unwieldy/too large, secretive, amateurish, poor communication, informal.			

Students generally knew that the Union fee was \$118. Respondents were asked to name the benefits which they considered that they received by paying the Union fee. A fairly large percentage (20.7%) considered that they

received no benefits at all, and a further 3.7% could not name any benefits. A majority (58%) considered that students DO NOT in general get a fair return for their fee.

### 2. Catering

Almost half of the respondents used the refectory at least once a day (on average) and less than 10.1% did not use the refectory at all.

Reasons for not using the refectories more often

	Overall	Male	Female
Don't know	2.4	1.5	4.0
Don't need to	62.2	61.4	63.5
Don't like the food	14.7	14.2	15.9
Can't afford to	8.6	8.1	9.5
Not enough time	8.0	8.9	6.3
Inconvenient location	5.9	6.1	5.6
Poor opening hours	2.9	2.8	3.2

Almost a third of respondents brought their lunch from home the day before they were interviewed. The mighty cut-lunch lives!

### 3. Student Media

#### (a) Student Radio

Student Radio was identified as to station and frequency by 50% of student respondents. 25.1% of respondents said they listened to Student Radio once a week or more and over two thirds listened either 'never' or 'rarely'.

#### (b) On Dit

Less than a third of respondents had read most of the preceding (pre large size) issue of 'On Dit' and over a quarter had read none of it. Over half of the respondents did not appear to have taken much notice of the publication.

respondents had not seen the last 'On Dit' which suggests that distribution is adequate.

Reasons for not reading (more of) 'On Dit'

	Overall	Male	Female
Don't know	3.4	2.4	5.4
Don't like articles	26.4	27.7	24.8
Boring	26.2	26.1	25.6
Political reasons	13.5	14.6	11.6
Not interested	12.4	12.6	12.4
No time	8.3	7.5	10.1
Didn't see it	8.0	9.1	6.2

Bread & Circuses was not as well read as 'On Dit' and a significant proportion had not heard of this publication.

4. Students Association  
A large proportion of respondents did not know what the Students Association does, and a further significant proportion (12.7%) considered that the SAUA did 'nothing'. This suggests at least half of the respondents (especially females) had a strong negative image of the SAUA. Never-

### 4. Students Association

theless a number of positive comments were received, and at least a quarter saw the Association as being involved primarily in welfare type activities. Respondents were overwhelmingly against the SAUA being involved in political activities other than those associated with student welfare. This response is in line with the negative view as well as the student welfare view of the SAUA.

How much of the last 'On Dit' did you read?

	Overall	Male	Female
Don't know	0.5	0.8	-
None	25.7	25.6	25.6
A little	27.2	28.7	23.3
About half	16.8	16.9	17.8
Most of it	29.8	28.0	33.3

Should the SAUA be involved in political activities (other than student-welfare oriented)

	Overall	Male	Female
Yes	22.5	22.8	21.7
No	75.9	76.0	76.0
No response	1.6	1.2	2.3

Respondents generally considered that students do benefit in some way from AUS.

Do you think that students benefit from AUS?

	Overall	Male	Female
Yes	38.9	38.6	38.8
No	28.0	27.2	29.5
Sometimes	31.9	33.1	30.2
No response	1.3	1.2	1.6

### 5. Welfare Services

Only 16.8% of respondents (15.4% male and 19.4% female)

could not name at least one welfare service. These persons had tended to describe the union as 'impersonal'. Over half the respondents could name the Health Centre and similar proportions had heard of Student Counselling and Work Action. The Contact Centre and the Welfare Co-ordinator were not named by many respondents. The main sources of information about the welfare services were, after word of mouth, the O-guide, the Union Diary and On Dit. These results suggest that students find out about these services largely by passive means, rather than go to Union or SAUA offices to find out about them.

6. Student Housing  
Most respondents were living with their parents (or close relatives).

### 6. Student Housing

Present Residence

	Overall	Male	Female
With parents	72.4	74.3	68.8
Rent home/flat	10.7	9.5	12.5
Shared house/flat	9.1	7.9	11.7
Student College	4.9	5.9	3.1
Own home/flat	2.9	2.4	3.9

### 7. Joining clubs or societies

A majority of male respondents, but a slight minority of female respondents, had joined some

clubs; whereas female representation in the 'other' clubs was roughly the same as the male representation.

	Overall	Male	Female
Yes	38.9	38.6	38.8
No	28.0	27.2	29.5
Sometimes	31.9	33.1	30.2
No response	1.3	1.2	1.6

Type of Union club joined

	Overall
Sports Club only	18.7
Sports and social/cultural	9.8
Social/cultural only	28.0
No club	43.5

	Male	Female
	20.9	14.9
	10.6	7.8
	28.3	27.9
	40.2	50.4

### 8. Use of Union Facilities

14% of students used the craft studio, although most students know where it is. The Gallery was better known and received a 15% use 'often', and 39% 'sometimes'. 69% were in favour of art exhibitions in the Gallery.

The survey took place during the daytime and consisted of full time first degree students. 7% of that population at Adelaide University were polled. This group produced the results below when asked for what was their disposable income (after deducting the cost of accommodation).....

Disposable income

	Overall
\$1 to \$5 per week	9.2
\$6 to \$10 per week	27.8
\$11 to \$20 per week	37.3
\$21 to \$50 pr week	21.8
Over \$50	3.9

# Getting Away From It All

2

Dear John and Gordon,  
Your sincere belief in fair play again comes to the fore as you allow valuable space in your first class newspaper for a couple of scots fellows called Connelly and Xenophou to use a lot of long words suggesting you retire from journalism immediately and concentrate on underwater banana picking.

As an avid spectator of your continual, diligent and dedicated efforts to have your readers sitting on the edge of their loos totally engrossed in the sensational revelations of lite on campus crammed into each pulsating page of On Dit, I must speak out in your defence.

Being experienced in the newspaper business, I take immense pride in having edited the first and only edition of a multi racial swingers magazine published in South Africa and subsequently surviving two accidental falls from the fourteenth floor of Pretoria police headquarters one hour after publication, I realise what you fellows are being subject to.

None of us are interested in this ballot rigging business although Nerry and Tick must speak with authority on the subject being well in with good old Malcolm.

You see, hardly any of us bother to vote anyhow and as long as those fellows who manage to grab the crown don't make us envious by blatantly going on the grog with the funds we couldn't care less.

We are far more interested in Scientology which seems a pretty good old lurk, where you can get an abortion kit, and why a condom machine has been installed in the Virgins Retreat below the secretaries office and why the latter has discontinued his daily jog.

The author of 'Alive and Obsolete' made us think a lot re the

injustice of ladies growing old. If the biddy concerned would care to peruse the notice board in the cloisters shw will see a tattered missive offering free accommodation to vegetarian lady to share a one bedroomed abode with twenty impoverished randy male students, 50 miles from city, age no object, cat welcome. If she cares to accept this magnaminous offer she can confidently expect a new lease of life and the cycle ride to work will keep her fit.

For a fellow who only arrived from Saigon on a leaking inner tube three months ago this bloke Wong writes a lot of sense. Any fellow who can race a shiela off while watching Glenelg play and listen to Cliff Richard at the same time deserves more space in your paper as he has a lot to say if he has the strength left to commit his thoughts to paper.

Also, John and Gordon, I don't know if you have read On Dit lately but there have been one or two discretely worded letters suggesting you are a couple of raving puffs, who think the Festival of Light is a ceremony held at Stonehenge on the 32nd of February each year.

Here we must regretfully inject a small criticism. Gordon has a photo of his brother affixed to his office window for all passers by to ogle at. We know that Gordon is very proud of his family but the fact that his brother wears a wreath around his head and has a thing for using cosmetics can give the wrong impression for those critics seeking a skeleton in the family closet.

Anyhow, we feel sure that you are both assured of cabinet posts in the future if Donny can hang on so keep up the good work.

JOHN S.



## CAN CHRISTIANS REALLY OPPOSE ABORTION

John  
With a resurgence of discussion on the Abortion issue in second term at Adelaide University, I was left wondering, what are the views held by the many silent Christians on campus. The issue has been projected as a challenge into our midst by the attack directed by the profeminists at the church, and therefore should have provoked at least some reflection on our part. More than that, we should have taken up the challenge and critically re-examined our own personal convictions on the matter as a body of Christ.

If our stand against the militant mass of protests is valid, then we should establish a rational basis for it. Our argument should incorporate the gospel perspective, to protect the weak, and to show love and concern for those involved.

As Christians we believe in the creation of each individual by God, in his image. From this we attain that human life in its unique relationship to God is to be upheld and protected, and that the foetus has the potential and therefore the right to this quality of life. With this point my views are in concordance with the church.

There is another party involved however, which the feminists so emotionally present; the pregnant woman. Abortion on demand sounds to me like an ordersome, messy but feasible, alternative form of contraception and it is fairly obvious with the relaxed laws leading to its easy access, that abortion has definitely been abused by some people who disregard the potential of foetal life for their own convenience. However, it is far too easy to generalize, as many anti-abortionists do, most women suffer stress of being faced with such a decision.

There is also the question of danger conferred by pregnancy and birth on the woman's life. The crucial question it seems is, should foetal life be subordinate to the woman's life? The answer for me is no. However, the life of the woman impinges on that of other people, while the foetus' existence does not. She is valued and loved by husband, children, parents and friends. Therefore it can be appreciated that the quality of her life is greater and in these circumstances should have precedence.

But the issue becomes more complex. A woman may claim that she is psychologically unable to cope with a continuation of the pregnancy and birth. Perhaps a panel of psychologists and doctors could determine the validity of her claim. But here many church leaders may say, she is responsible for her pregnancy, so she must go through with it. She must suffer the consequences of what she has done, especially if she is unmarried.

Such a view is tainted with legalism and is devoid of the compassion and love that is inherent in the gospel. Christ did not condemn an adulterous woman of his time, but pointed out to her a better way she could conduct her life in future; clearly indicating that he had forgiven her, and unconditionally valued her as a person. His compassion was displayed in his healing acts, when he sought to disentangle peoples lives as well as healing their physical affirmity. We are taught therefore to bathe the wounds of the afflicted and to care about their needs in their particular situation. We are not called to condemn their situation in a pious and legalistic manner. I believe that the psychological 'affirmity' that causes a woman to seek abortion on these grounds is a result of some messed up situation, re-

ferred to as sin in Christian circles. Either we leave her to suffer through it alone or we become involved and sensitive to her experience. Too often Christians recoil . . . emotional involvement because it poses a challenge to their legalistic stand.

Whether we like it or not we are in a sin-messed world. If we chose to ignore its consequences and evade the responsibility of treating its symptoms, we inevitably become responsible for the tragedies that ensue. One such case is that of the young mother of two children, who was found dead on the bathroom floor by her husband. Obviously, desperately incapable of coping with a further pregnancy, she had tried unsuccessfully to abort herself.

This situation is not going to be arrested by the cold legalistic tone of the church's statements on abortion. Many people urgently need personalized treatment. A continuation of cases of self destruction indicates that a world in which the concept of sin is almost obsolete, cannot be ministered to by doctrinal legalism.

I cannot fully justify the use of abortion for the reasons indicated above. I am not advocating that the church compromise its stand in response to secular pressure.

But in order to minister to a world where tragedy is self inflicted, the use of abortion may be the only means in some cases to avoid the suicidal self-attempted abortions, where both lives are lost. Support and compassion from a christian can be more compelling as the person recognizes praxis flowing from Christian commitments.

Today we should still be saying 'Neither do I condemn you....but there is a better way'.

HEATHER GIBB

# Letters



# AUS RALLY



## Student rally

Sir — While it was good to see "The Advertiser" report on the AUS education rally (29/9/78), the manner of reporting

left a lot to be desired. In the first instance, the number at the rally according to an AUS count was more than 1000 not the 350 in the report (of course rally numbers are notoriously difficult to estimate). Secondly, and more importantly, the inclusion in the story of an unsubstantiated claim by Julia Dunstone, of the Liberal Club, that the numbers somehow indicated that the "vast majority" of students support Fraser's education funding cutbacks was hardly even-handed.

This inclusion was particularly glaring because the pro-Fraser turn-up at Mr. Ian Wilson's office, which included Julia Dunstone, could be counted on one hand.

It seems hardly credible that the "vast majority" of students would be happy with the decline in their education facilities, as Julia Dunstone claims.

G. McCARTHY  
Glenside.

TISER 31078.

## EDUCATION CUTBACKS

Dear John, Much flak has been flying around in response to the recent federal budget particularly in response to education spending cuts, however after reading through the paper of On Dit articles and pamphlets on the refec. tables I am still a little confused.

EXACTLY what are the effects specifically at Adelaide Uni and also on other campuses of the cuts in funds. Adelaide Uni has lost 30 staff positions in the last few weeks says the Vice Chancellor as reported by Nonee Walsh in On Dit Vol 46 No. 18. Could in-

formance about EACH of the positions lost and courses affected i.e. how many subjects have been withdrawn, publicised soon, as well as details of student demand for the now withdrawn subjects when they were last offered. Details about the types of post graduate research programmes that have had to stop due to lack of funds would also be appreciated as I form my own opinion of the Government restriction.

I would also like to ask how much effort was made to get an idea of general student opinion before the demands of Thursday Sept-

ember 28th were put forward. Although supporting THE SPIRIT of the proposals. I was in the unfortunate position of not being able to support the resolutions I saw as important, such as those demanding action on unemployment because they were tied in with extreme demands that I don't find necessary such as \$75.00 a week for ALL students. There are a significant number of other people in this same tension and we could not support the rally on September 28th in Rundle Mall because of this unreasonable demand.

ANDREW FAGAN



# WHATS BEEN CUT ?



Dear Rupert - er, I mean John, I write to protest against the editing of my article in On Dit 19, on abortion, by someone on the On Dit layout staff. I refer to the cartoon which I supplied with the raw copy and which I was assured would be included in the final presentation of the article.

This cartoon featured a 'mugshot' of a prominent campers feminist. I concede that the content of the article was not edited/censored; however, I was assured (after specifically mentioning the matter at least twice each to both yourself and Gordon Laverick) that the graphic would be included.

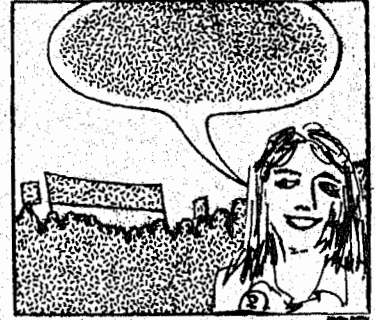
To add insult to injury, I was not



even informed of the change. I find it ironic that you perpetrated this censorship after reprimanding me for suggesting that it could occur.

It disturbs me that you appear to exercise selective censorship apparently at your whim. You permitted Nick Xenophou to launch a vicious PERSONAL attack on Julian Glynn, get you main stated reason for censoring my graphic was that the graphic constituted a PERSONAL attack on the feminist in question. If you are going to exercise censorship, at least you should be consistent.

Yours etc.,  
GREG EDE



## SORRY

Dear Greg I'm sorry for not letting you know of the change. As you know I was reluctant to print Xenophous' letter. Readers with memories will recall pages of On Dit in the past full of Personality Politics. It was to avoid this possibility that I took the action I did. Which in the Wong case brought trouble also. Anyhow Greg I hope the apology if not the explanation satisfies.....

RUPERT SANDEMAN

## Getting Away From It All 1

Dear John,

It is with regret that I write to express my disagreement at the inclusion in 'On Dit' 19 of two letters, one by Nick Xenophou, and the other by Terry Connolly, both of which people I count as my friends.

I am disappointed that 'On Dit' has become the forum for what is essentially in my opinion a personal vendetta against Julian Glynn, who I also count as my friend.

While I am not in a position to comment personally on the allegations made against Julian, I believe that regardless of their veracity of lack thereof, they should not have been made in a spirit of personal animosity. I am disappointed that neither Nick nor Terry (nor, I might add, any of the numerous other people who have expressed intemperate opinions on the subject) have shown very much regard for 'On Dit' as an institution in this matter.

I believe that 'On Dit' has progressed a great deal in 1978, and one

of the most positive features of this progress has been the absence of personal, petty feuding in its' pages. I believe that the inclusion of the two letters referred to above have substantially detracted from this progress.

I can, paradoxically, only applaud your decision to run the two letters, in view of the pressure which has been brought to bear upon you. I trust that the student electorate will in due course become acquainted with the shabby and selfish way in which you and 'On Dit' have been manipulated, and the identities of the various people involved.

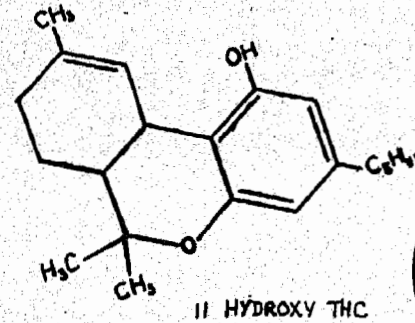
I particularly exempt Julian Glynn, Terry Connolly and Nick Xenophou from that remark, since at least their identities are known, and they have not sought to hide behind the anonymity of informal pressure, whatever the strength or weakness of their respective positions and motivations.

Yours faithfully,

GORDON LAVERICK

# Letters

# A PHARMACOLOGY OF CANNABIS



## THE PHARMACOLOGY OF CANNABIS

EDITED FROM THE PRESENTATION OF PROF. GEOFF BENTLEY, PHARMACOLOGY DEPT. MONASH UNI., AT THE 1976 CANNABIS NATIONAL CONFERENCE:

Cannabis is a drug which acts primarily on the Central Nervous System and consequently considerable problems arise in the study of this drug. It is difficult to conduct controlled experiments with animals because the action is within the Central Nervous System. It is extremely difficult to gauge what the animal is experiencing. Cannabis is used primarily for its euphoriant and hallucinatory properties. If it produces effects in animals, there is no way at all of asking the animals whether they are feeling euphoric or whether they are hallucinating. One therefore, has to rely on obtaining a very large amount of information from human beings. Again this provides great problems.

Drugs which act on the Central Nervous System may be extremely difficult to test on people in the laboratory, particularly if the drugs are the euphoriant, hallucinatory type, the effect that they produce in the laboratory may be very different indeed from the effects seen in a more social setting, this has led to controversy and contradiction about the Pharmacology of these very interesting substances. Drugs that have a hallucinatory component are known to act in a variable way, even on the one person at different times. The effect of an hallucinatory drug depends not only on its own intrinsic pharmacology but upon the personality of the person who is using it, and his/her mood at the time. Alcohol will have different effects on a person according to whether they feel happy or sad when they start drinking. This is also very much the case with hallucinatory drugs.

Another difficulty encountered when studying the pharmacology of cannabis is that all its active components are extremely soluble in fatty materials, or as the biochemists would say, the components are lipophilic. This introduces problems in adminis-

tration of the drug. With humans cannabis is mainly smoked but it may also be eaten. One can, on the other hand, feed the drug to experimental animals but it is much harder to make an animal smoke cannabis. If the components of cannabis are dissolved in oil and administered orally, it is absorbed very less rapidly and therefore introduces complications in experimental administration.

The third problem is the extraordinarily emotional atmosphere that surrounds the whole topic of cannabis. All drugs that are illegal have this emotional component but cannabis has invited, for some odd reason, an especially emotional attitude towards it and one finds that this polarises the approach of both the scientists and the people who use the drug. Some astonishing papers are written by apparently rational scientists. They are astonishing because of the dogmatism and lack of science evident in their content. On the other hand one does tend to meet people who protect the use of cannabis and who are equally inflexible in their



attitude. If the drug were freely available, there is no question that some people would misuse it. It may take a while before anyone saw this kind of misuse as a serious social problem, but it may happen quickly. Phenacitin is an example of a drug that people believed, to be safe. It was used in countless thousands of tons for fifty years until one found that it was being misused, causing fatal kidney damage. Aspirin, a drug having very little Central Nervous Effect is being misused by people who are dying from the kidney damage that this drug causes. Therefore, no pharmacologist can possibly advocate that any drug with as little scientifically controlled pharmacological background as cannabis, should be made freely available.

Nevertheless the law regarding cannabis has got to be changed for many reasons. One of them is that legally cannabis, which pharmacologically speaking is a pretty mild and harmless drug, is lumped in the same bag as the very nasty drugs such as cocaine, heroin and

morphine. The message that this must surely generate in the minds of young people can be very dangerous. Anyone who has used cannabis and seen their friends using it for some time, is very likely to say 'well cannabis is legally equated with heroin etc., therefore, pharmacologically and medically speaking, perhaps cocaine, heroin and morphine are no more dangerous than marijuana'. And if only for that reason, cannabis has to be put in a special legal bag.

### SOME ASTONISHING PAPERS ARE WRITTEN BY APPARENTLY RATIONAL SCIENTISTS. THEY ARE ASTONISHING BECAUSE OF THE DOGMATISM AND LACK OF SCIENCE EVIDENT IN THEIR CONTENT.

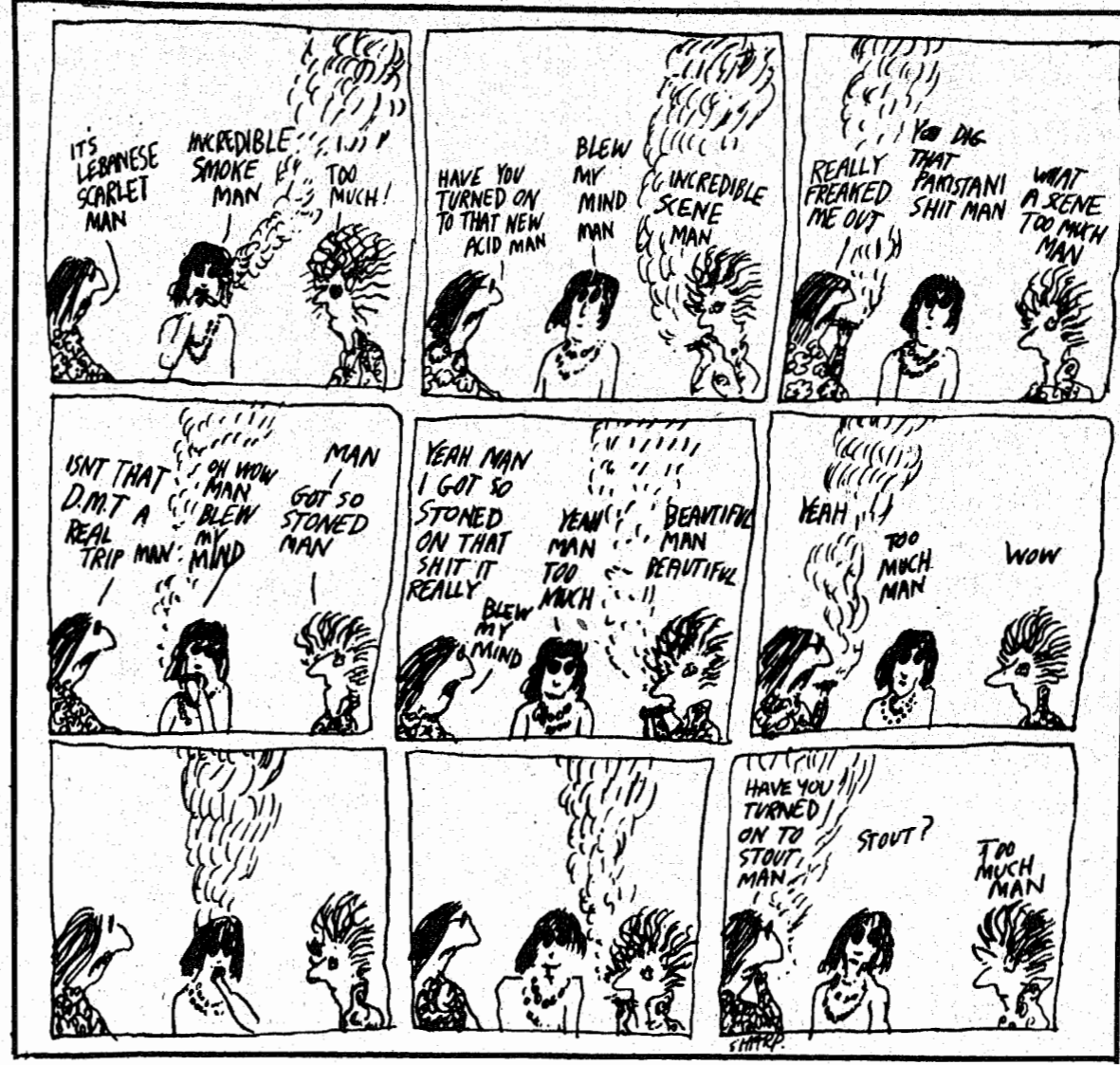
Another problem that would most certainly occur if cannabis was made freely available is an increase in multiple drug use. Once upon a time people who used cannabis sneered at the people who used alcohol. Reports coming through now suggest that people indulge in multiple drug use. Certainly there are people who

use cannabis with alcohol, the combination of alcohol and cannabis is more than additive in effect, it is a potentiation, an augmentation of the effects of both drugs and therefore, if and when cannabis is freely available, there will inevitably be an increased number of people indulging in and having trouble from multiple drug use, anyone who wishes to have cannabis laws liberalized must understand its pharmacology and must face honestly these problems and work out some way

of coming to grips with them. The drinking driver is killing a large number of people every month. It is not difficult to detect the blood alcohol levels in a person but it is very difficult and expensive to set up a blood cannabinoid assay. This problem will have to be overcome when cannabis is liberalized.

There is also the situation of young people who, as they grow up, start to accept different ideas. An interesting study by Clark and his colleagues, 1975, looks at the attitudes of American school children. In Primary school the kids accepted their teachers, their parents and the television as authorities of many matters, including drugs. As they got into secondary school, there was a large swing away from these authorities and the adolescent rebellion took place. The kids accepted, almost entirely and only, the opinions of their peer group. Nevertheless, in spite of this rebellion. This survey pointed out that of the secondary school children who were using marijuana heavily, a big majority came from families where the parents were heavy users of alcohol, tobacco, stimulants and depressants. In other words, the background of the young person effects his/her approach to marijuana and if marijuana is one of the things that is freely available in this 'medical drug' orientated community, marijuana will be used by young people.

A large number of young people



start using cannabis as a symbol of protest. If it were no longer an illicit drug and can no longer be used as a means of protest, what does the kid use when he/she wishes to shock the old square generation? Do they jump straight into heroin or cocaine? Again it is another problem which will have to be faced squarely. There is no use trying to brush it under the carpet. All of these things must be looked at squarely and honestly by anybody interested in liberalizing cannabis.

There are various strains of cannabis, some of which are better for making fibre and have little of the active principle, others which are richer in the active resin. The amount of active principle present in the plant tends to increase in warmer climates. You can take a high yield plant and grow it in cold climate and at least for a couple of generations it will produce high quantities of the active principle.

Cannabis has been used from ancient times both as pleasurable drug and as a medicine. Tincture of Cannabis was used in Europe right up into the twentieth century: In 1930 tincture of Cannabis was taken out of the British Pharmacopia for reasons which are not terribly clear, but probably because the plant material was pretty variable. There was no way of assaying it and therefore, its effects were variable. It was used as a sedative. It was supposed, and it still is not by any means disproved, that it was good for menstrual pains. Strangely enough, although it was used quite widely in Europe as a medicine, there seem to be no reports of its hallucinogenic action.

It is believed that the active principle of cannabis is a rather complicated tricyclic alcohol called delta nine tetrahydrocannabinol and since that's a mouth-

ful most people refer to it as T.H.C. with or without the delta nine. There is another isomer, delta eight, which is probably active. T.H.C. when taken into the body is very rapidly metabolised in the liver to the 11-OH derivative, 11-hydroxy THC. This is highly pharmacologically active and some people claim that this is in fact the active principal; That it isn't until T.H.C. is metabolised, that is, becomes pharmacologically active.

It's a bit hard to be really sure. There have been some interesting studies where both of these substances, T.H.C. itself and the 11-hydroxy derivative were infused and both of them were active. When tested on animals it was found that the 11-hydroxy derivative was about ten times more potent. But, of course, one's not looking at the same effect in the animals as is looked at in the human. When they were infused into humans they appeared to be about equally active, but how can one really tell, because the T.H.C. itself was being continually metabolised as it was infused. There was an interesting paper by Perezrai in 1972. He studied twelve subjects who were all familiar with the effects of Cannabis. Perezrai and his associates infused the two drugs into these patients and monitored various pharmacological effects. They started the infusion with a blank solution and then at some time unknown to the subject, they switched to an infusion of either T.H.C. or its 11-hydroxy derivative. They asked the subjects to announce when they first felt the drug effect, and secondly when they had got to what they felt was a satisfactory "high". The 11-hydroxy derivative seemed to be a little bit more potent although the difference was not significant statistically. About 19 ug/kg of T.H.C. was the threshold effect and about 40ug/kg gave the

satisfactory equivalent of a social high. With the 11-hydroxy derivative it was slightly less.

This 11-hydroxy derivative is fairly unstable in the body. It is further hydroxylated to dihydroxy-T.H.C., again in the liver. Cannabidiol, another pharmacological component of cannabis, (C.B.D. is the usual abbreviation), has the property of inhibiting this second detoxification mechanism. There are various other drugs which can do this and when these are given the effect of Cannabis or T.H.C. on animals are quite markedly increased. So obviously this detoxification mechanism is important.

The other thing to be remembered is that with continued use, the depressant effect of cannabidiol is counteracted in the liver, which synthesizes more enzymes to detoxify the 11-Hydroxy derivative. So the heavy user will, after some time, become very much more tolerant to the action of T.H.C. than originally.

The effects of cannabis are varied and will depend on the conditions under which they are tested and the person under obser-



vation. People have to learn to appreciate the effects of cannabis. Most people on first using it will report very little-effect indeed. In one large research group, only one person claimed to have had a good 'high' on the first usage. One woman said that she had tried it twenty-five times before she got a kick out of it. Unlike more toxic although the same result occurred. One is not likely to mainline any preparation of cannabis. The other effects that cannabis produces are a flushing of the conjunctivi, i.e. reddened eyes, and a curious hunger for sugar. Apparently there is no change in the blood sugar levels and so one wonders if it perhaps in some way interferes with the transport of glucose into the cells. Another characteristic effect is the raising of the heart rate. Some workers say that in the human being at least, this is probably a lecturer once spoke to a group of students on the topic of drug misuse. In the front row there was a very bright eyed young man who at the end of the session asked a lot of extremely penetrating and intelligent questions. When the lecturer was going, he came up to him and said that he had better say that, although he did not usually smoke cannabis during the day, it just happened that some friends had arrived at lunchtime and he had had a very high potency cannabis cigarette and was in fact stoned out of his mind. If he was correct in estimating how high he was. It was a very interesting example of how little mental impairment there had been from this drug.

are quite remarkable, for a monkey, a dose of 6gms/kilo body weight in a single oral dose did not kill the animal. Given intravenously, it was considerably more toxic although the same result occurred. One is not likely to mainline any preparation of cannabis. The other effects that cannabis produces are a flushing of the conjunctivi, i.e. reddened eyes, and a curious hunger for sugar. Apparently there is no change in the blood sugar levels and so one wonders if it perhaps in some way interferes with the transport of glucose into the cells. Another characteristic effect is the raising of the heart rate. Some workers say that in the human being at least, this is probably a lecturer once spoke to a group of students on the topic of drug misuse. In the front row there was a very bright eyed young man who at the end of the session asked a lot of extremely penetrating and intelligent questions. When the lecturer was going, he came up to him and said that he had better say that, although he did not usually smoke cannabis during the day, it just happened that some friends had arrived at lunchtime and he had had a very high potency cannabis cigarette and was in fact stoned out of his mind. If he was correct in estimating how high he was. It was a very interesting example of how little mental impairment there had been from this drug.

The psychological effects of cannabis produce mostly a pleasant dreamy state although one reads of occasional cases of panic reactions and even psychotic episodes. Most writers would agree that this is most unlikely to happen and if it does, one of two things may catalyse this response: Either a pre-existing, very unstable and psychotic personality or a pre-use of L.S.D. There is no question at all that cannabis can trigger a flashback into an L.S.D. hallucination, therefore, the moral is if you use cannabis, this drug.

### ONCE UPON A TIME PEOPLE WHO USED CANNIBIS SNEERED AT THE PEOPLE WHO USED ALCOHOL. REPORTS COMING THROUGH NOW SUGGEST THAT PEOPLE INDULGE IN MULTIPLE DRUG USE... THE COMBINATION OF ALCOHOL AND CANNIBIS IS AN AUGMENTATION OF THE EFFECTS OF BOTH DRUGS.

The main effect of cannabis is to cause euphoria, a feeling of well-being. The other books will classify cannabis amongst the hallucinogens. More modern thinking is to call it a euphoriant drug with secondary hallucinatory properties. The dose that causes hallucinations is about five times that for a social high. In comparison, five times the dose of alcohol that produces a social high is getting to the fatal dose. In fact, nobody that I have read about has died from a marijuana overdose. Animal toxicity figures

keep clear of L.S.D. Cannabis also considerably potentiates the effects of alcohol as well as a number of other Central Nervous Depressants, particularly the barbiturates and almost certainly drug with secondary hallucinatory properties. The dose that causes hallucinations is about five times that for a social high. In comparison, five times the dose of alcohol that produces a social high is getting to the fatal dose. In fact, nobody that I have read about has died from a marijuana overdose. Animal toxicity figures

caused by Marijuana is its ability to cause fetal abnormalities i.e. its teratogenic action. There is no doubt at all that in at least three rodent species, the rat, the hamster and the rabbit it can cause fetal abnormalities. How relevant this is to the human being, one can only guess. It is always difficult to extrapolate from animals to man. The doses used were thousands and thousands of times higher than one would ever take normally. But, of course, this is the kind of technique that one has to use to test any drug for potential fetal abnormalities. The argument is that if you can detect it at all in the animal, you must be very cautious indeed in giving it to the human, so one has to say that no pregnant woman, for the sake of her child, should risk this and should abstain from smoking marijuana during pregnancy, particularly, of course for the first three months. Of course, the trouble is that the damage may be done before the pregnancy is realised. Incidentally, T.H.C. itself is not teratogenic but rather it is a mixture of complex things in marijuana. One also should note, putting this into perspective, that there are many things which are teratogenic in animals at least, which go on being used by human for instance high vitamin A levels are teratogenic and so too is aspirin. So neither of these should be taken by pregnant women. On the other hand, one doesn't abolish the use of either of these preparations on the grounds that they are teratogenic.

There has also been some argument as to whether marijuana causes effects on chromosomes. There has been some interesting work done taking tissues from animals and growing them in the presence of T.H.C. or marijuana extract; or they blow smoke from marijuana extract, or they blow smoke from marijuana cigarettes over the tissue cultures. There have been claims 'yes we do see chromosomal abnormalities' and other claims saying 'No, we don't' or 'If we do, we see equally as much from blowing tobacco smoke over the explants'. The consensus opinion is that the possibilities of causing chromosomal abnormalities from smoking cannabis are vanishingly small.

Marijuana, because of its high lipid solubility, tends to remain in the fat tissue and in the brain for long periods. While this may be, it is certainly not proven to be dangerous, although one doesn't like to think of any foreign substance sitting around the brain for months and perhaps years.

People have looked in a sociological way at the effects that might be seen in communities that use marijuana heavily. Countries such as Greece and Jamaica have been studied for chronic toxicity in heavy users. One can produce papers saying 'Yes we do see effects' and papers which say 'No effects at all detected'. The study in Jamaica seemed to be particularly well done. They quoted cases of people who had

used quite enormous doses of marijuana for periods of up to 40 years. Other surveys claim they do see side effects. There is one prominent Greek pharmacologist who claims that he can pick a heavy marijuana user. He says that after two years of constant use he will detect changes in the gait of the user. Its very hard indeed for a mere laboratory pharmacologist to sort out the pros and cons of this complex sociological problem.

The next ill effect that has been levelled at marijuana is the possibility of causing lung cancer. This is pretty small unless one is a very dedicated smoker and almost chain smokes reeferes as some people chain smoke cigarettes. There is no doubt at all that marijuana, even when smoked pure, will produce tars. These tars are usually regarded as being the cause of the lung cancer. Again this is certainly not proven but the risk must be considered.

Another ill effect supposedly caused by Marijuana is perhaps a little more worrying but fortunately it is far from proven. The claim is that this drug is able to depress the immune response, thus making the user rather more susceptible to infection. This work has been done largely in test tubes. Again it is something that is not proven but perhaps should be thought of.

The long term psychological effects of Marijuana are seen not only in those who use marijuana but also in those who write about it. There are some extra-ordinarily

polemical statements from people who are apparently quite rational scientists. This of course, is not confined in any way to marijuana, there is one quote from a man called Dixon who was Professor of Pharmacology at Oxford and therefore by definition was extraordinarily eminent, wise and learned. In 1904 he described a very deadly drug which was highly addictive and caused, a few hours after it was taken, a 'grievous sinking' in the user, a pallor and trembling of limbs, a general deterioration of the physical condition and only another dose of this dreadful drug could alleviate the condition. He was not talking about morphine or heroin or cocaine, he was talking about caffeine and was slamming the use of tea and coffee. One does wonder indeed why people do get these kinds of bees in their bonnets, but certainly with marijuana the literature is absolutely full of them.

For example, in 1971 a man named Kornharber made a survey of 50 patients who were referred to him. They were all young people, referred to him because of various psychological upsets. He admitted that many of these people used a number of drugs. Including L.S.D. The reason for referral to Kornharber ranged from acute psychosis to behavioural and depressive disorders. However, they all used marijuana. After having studied these 50 people over a period of 18 months he concludes that marijuana exerts and I quote: 'A toxic effect on the developing', 'developing' seems a little

excessive for people who are 18 years and older. Their intellects may be developing, but surely not their nervous systems. He claims marijuana facilitates regression from logical mathematical thought processes to a more primitive mode, such as fantasy and magical thinking. He states that it also has a long term depressant effect, presumably on the mood, impairs the learning ability and the judgement of the young by its effect on the attention span and the ability to concentrate. He claims it facilitates the turning of an active to a passive and dependent attitude. A

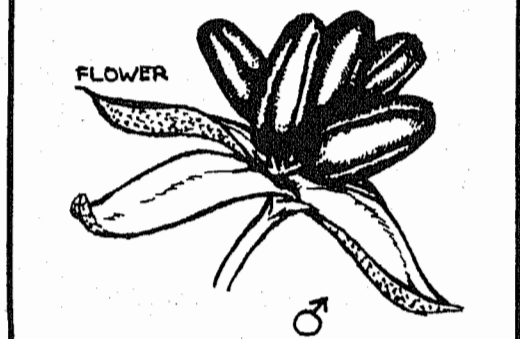
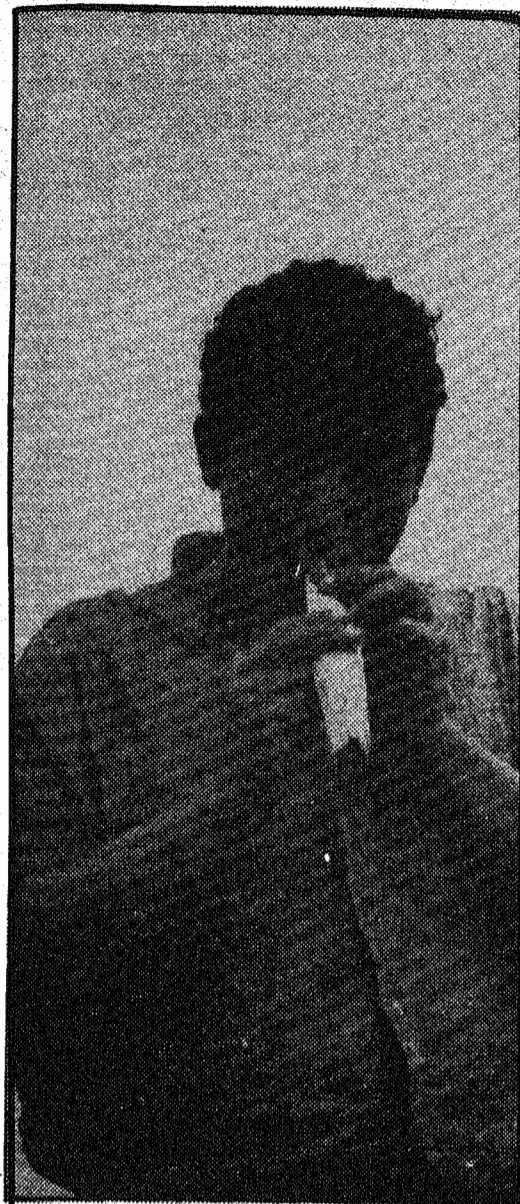
**IN THE RAT, THE HAMSTER AND THE RABBIT IT CAN CAUSE FETAL ABNORMALITIES. HOW RELEVANT THIS IS TO THE HUMAN BEING, ONE CAN ONLY GUESS. IT IS ALWAYS DIFFICULT TO EXTRAPOLATE FROM ANIMALS TO MAN.**

fantasy, he says, then occurs and the youngster is forced to join a minimally functioning peer group. Though this resembles normal adolescent turmoil, marijuana locks the youth into an immature state. He gave some warning signs for those who might be monitoring young people. If you saw this triad of symptoms you began to worry—firstly, a dropping out of gym; secondly, a deterioration in mathematics and thirdly, a decrease in attention. The final statement which made many people really concerned about this man was that he said many people use marijuana as a medicine or for social reasons. Fair enough, but then he said 'in

the disorganized patient we attempted to help him deal with his illness with medicine instead of drugs'. He claimed in support of his argument that when people suspended the use of marijuana they recovered, became much better at school work and their prognosis as useful human beings increased. The fact that they were receiving psychological help and attention seems to have escaped his opinion on the matter. One can find many statements of a similar nature in the literature. There is no doubt that marijuana may add to the disturbance of an already disturbed person. Marij-

uana may, like any other drug if abused, interfere with the development of the personality and it may interfere with school work, but the blame being placed on marijuana is far from proven. One can't discard that marijuana use may be used as an excuse to carry on in an anti-social way.

What are the possible therapeutic uses of marijuana? It was used in therapy for many years and it has a very interesting spectrum of pharmacological actions. In the laboratory it has an analgesic or painkilling activity which can be estimated as being half as good as morphine. It has been used in terminal carcinoma patients as a



than they really are.

Another very interesting facet of the pharmacology of cannabis is the phenomenon of reverse tolerance. That is to say, one becomes tolerant in an orthodromic way. The tolerance curve is said to be 'J' shaped. First, a decrease in tolerance is seen and then later on, a marked increase. Nobody really knows exactly why this is so. There have been several suggestions. Perhaps there is an increase in the enzymes in the liver which metabolize T.H.C. to the supposedly really active form, the 11-Hydroxy form. There is precedent for this. Drugs can induce the production of enzymes in the liver which hasten the metabolism of other drugs.

**IT MAY BE THAT THE REVERSE TOLERANCE SEEN WITH MARIJUANA SMOKERS MAY BE NOTHING MORE THAN LEARNING TO TURN ON TO THE ALPHA RHYTHM, THE PROCESS BEING TRIGGERED BY THE TAKING OF THE DRUG.**

Valavca and his colleagues in 1973 monitored various pharmacological effects of T.H.C. given as cigarettes, either hashish cigarettes or marijuana laced with pure T.H.C. They monitored the heart rate (these were the people who said that the heart rate was probably the best way of assaying T.H.C.) the electro-encephalograph for brainwaves, the alertness of the subject and they asked them to state how 'high' they felt. They found that, as the heart rate increased up to level of 102 beats per minute, there was a very good correlation with the feeling of a socially enjoyable 'high'. Beyond 102 beats per minute the effect began to be less pleasant. Incidentally, the dose they used was considerably higher than one would normally take in a social setting, unless one was a very tolerant user.

However, a most interesting finding was the effect on the alpha rhythm of the brain, detected by the E.E.G. They found that marijuana caused this to increase very considerably, the alpha rhythm has also been shown to increase in situations where people are meditating and are claiming to feel the exultation that goes with meditation. It is claimed that one can become very exultant under meditation and zen techniques. When this happens it has been shown that the alpha rhythm goes up too. Perhaps the euphoria produced by marijuana intoxication acts through a mechanism similar to the one involved in the meditation phenomenon. People can learn to turn on this alpha rhythm, these meditative processes, and it may be that the reverse tolerance is nothing more than learning to turn on this alpha rhythm, the process being triggered by the taking of the drug. Incidentally, over-breathing or hyperventilation can also increase the alpha rhythm and, no doubt, the deep and heavy inhalation that most marijuana users make use of adds to this effect. So there may be some kind of physiological

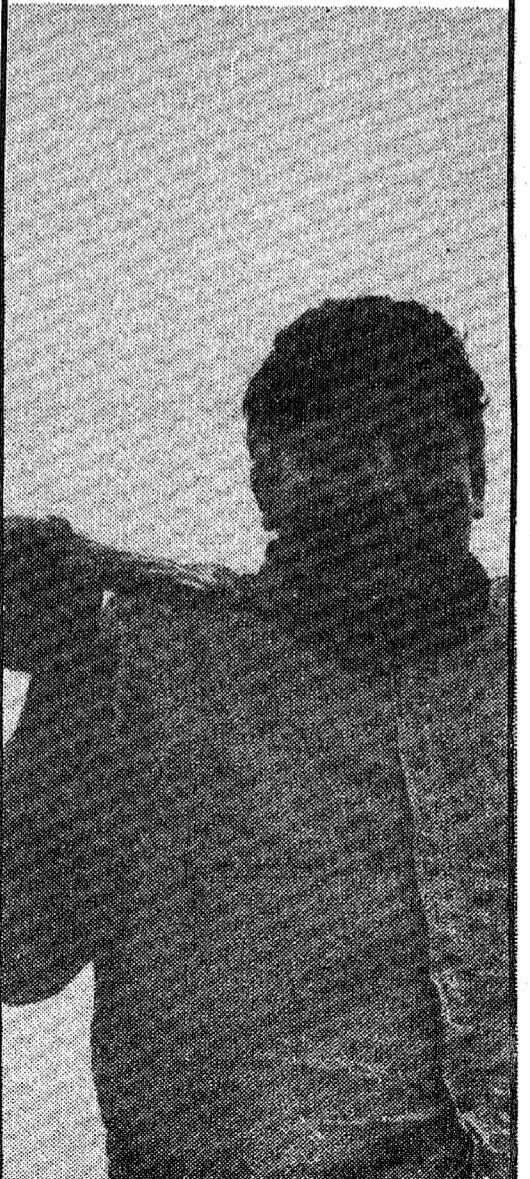
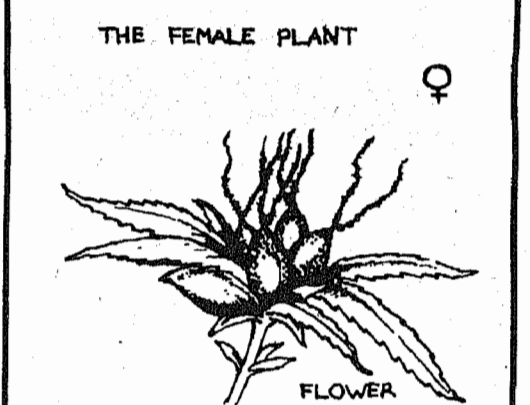
explanation for the reverse tolerance and for the euphoria.

The toxicity of T.H.C. is quite unknown in man. Nobody has ever died from a dose of cannabis or T.H.C. there have been reports of people who have smuggled high potency preparations of red oil of cannabis resin. They smuggled it by swallowing small containers of the oil, hoping to recover them later on. There have been reports of containers bursting within the intestinal tract and causing coma, but not even these enormous doses have caused death. It certainly illustrates that this is a remarkably non-toxic substance. When it is smoked, between 10 and 70 percent of the T.H.C. in the cigarette is transferred to the lungs.

Up to 80 percent of this will be absorbed rapidly. Its effects are felt within a few minutes. Incidentally, the 11-Hydroxy derivative appears in the blood within thirty seconds of the T.H.C. getting into the blood so this derivative is certainly present quickly enough to be responsible for all the 'observed effects. Monkeys given intravenous doses of T.H.C. survived 92mg/kg. That is equivalent to a person smoking something like 3000 high quality 'reefers' or 'joints' in an hour. So this certainly illustrates that cannabis has quite a different order of toxicity from the nearest comparison socially, and that is alcohol. About 0.3-0.4mg alcohol/100ml blood is approaching a toxic level. By marijuana smoke inhalation, the LD50 (the dose killing 50% of the rats tested) of T.H.C. was about 42 mg. per kg body weight. However, the socially high dose is something like 42mg. per kg. and that is a thousand less than the LD50.

There are certain ill-effects of cannabis and one has to look at them fairly and squarely. It is usually said that in the human being cannabis, unlike alcohol, does not cause aggression. This may be so. It has been extremely well monitored, but there are some studies which make one feel perhaps it is not quite as clear-cut as all that. Chronic dosage in rats, particularly rats that are under-nourished, will cause very considerable aggression in these animals. The effect varies according to the initial temperament of the rat. If he is initially rather hyperexcitable and emotional, then he is much more prone to become aggressive under this combined influence of cannabis plus under-nutrition. If he is a more stable less emotional rat it takes much longer before this develops. Therefore if you are going to take a lot of marijuana make sure you are well fed at the time and feeling happy.

One of the ill-effects said to be

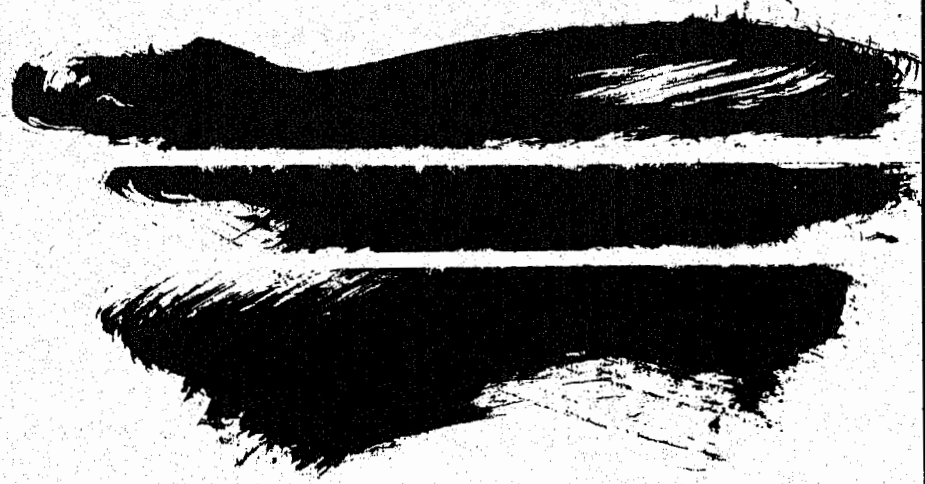


tranquilliser. While it did nothing to cure the cancer, it was said to make the patients much more relaxed, much less worried about their impending death and they ate better and seemed to be very much happier. T.H.C. and, in particular, a synthetic derivative, dimethyl heptyl T.H.C. are very good anti-convulsants. There is a possibility that they may be used in epileptic treatment. Another interesting prospect, which nobody understands, is the ability of T.H.C. to lower the pressure within the eye. Therefore, there is the possibility of using cannabis to treat glaucoma, there was an interesting case of a man in America, going blind from glaucoma, who found that smoking marijuana considerably helped his vision and slowed the deterioration, he now is the only man in the U.S. legally allowed to smoke cannabis. Another interesting property of cannabis is its weak ability to dilate the bronchial tubes and therefore, it may have a use in the treatment of asthma. This is surprising because most people find that the smoke from a 'joint' is acrid and irritating. Yet there is clear

evidence that marijuana smoke does dilate rather than constrict the bronchi. This too has been shown with pure T.H.C. given by mouth or injection. The action is weak and not as good as some of the sympathetic amine drugs such as salbutamol.

Finally, a number of drug companies are working on the structure of T.H.C. making derivatives from it which will without doubt, have some diverse and useful properties. These include new diuretics and new sedatives. It is only hoped their chemical resemblance to T.H.C. will not bring them under the scrutiny of the authorities, who tend to be rather rigid in their thinking about drugs.

GRAPHICS IN THIS ARTICLE  
TAKEN FROM:  
"THE CONNOISSEURS HANDBOOK  
OF MARIHUANA,"  
BY WILLIAM DANIEL DRAKE JR.



Great knowledge is all-encompassing; small knowledge is limited. Great words are inspiring; small words are chatter. When we are asleep, we are in touch with our souls. When we are awake, our senses open. We get involved with our activities and our minds are distracted. Sometimes we are hesitant, sometimes underhanded, and sometimes secretive. Little fears cause anxiety, and great fears cause panic. Our words fly off like arrows, as though we knew what was right and wrong. We cling to our own point of view, as though everything depended on it. And yet our opinions have no permanence: like autumn and winter, they gradually pass away. We are caught in the current and cannot return. We are tied up in knots like an old clogged drain; we are getting closer to death with no way to regain our youth. Joy and anger, sorrow and happiness, hope and fear, indecision and strength, humility and willfulness, enthusiasm and insolence, like music sounding from an empty reed or mushrooms rising from the warm dark earth, continually appear before us day and night. No-one knows whence they come. Don't worry about it! Let them be! How can we understand it all in one day?

from "Chuang Tsu-inner chapters"  
translated by Gia-fu Feng and  
Jane English.

## THE MOTHER'S MISSION.

1840



A great Emperor once asked one of his noble subjects what would secure his country the first place among the nations of the earth. The nobleman's grand reply was, "Good mothers." Now, what constitutes a good mother? The answer is conclusive: She who, regarding the future welfare of her

child, seeks every available means that may offer to promote a sound physical development; to the end that her offspring may not be deficient in any single faculty with which nature has endowed it. In infancy there is no period which is more likely to affect the future disposition of the child than that of teething, producing as it does fretfulness, moroseness of mind, etc., which if not checked will manifest itself in after days.

**USE MRS. WINSLOW'S SOOTHING SYRUP.**

There are quite a few valid reasons why Cannabis was not a popularly known drug in the early stages of American history. Prominent among these is the fact that Americans had access to so many strong drugs already, drugs which performed the tasks of intoxication and stupification without the unwanted potential for clarifying thought and perception. Use of drugs on a large scale is not a new phenomena in Western societies, nor is wholesale addiction. The current epidemic has yet to reach the proportions of the narcotic plague which persisted for generations in this country during the late 19th and early 20th Centuries. Conservative estimates of the addicted population of the United States at the turn of the century place the number at between one and two million persons. This does not take into account the large number of people, namely children, who succumbed to toxic dosages of opiates. Given the population of this country during these years—around 75-100 million people—the chances are quite good that one of your grandparents was a junkie, or that one of your great uncles or aunts never survived beyond infancy to produce cousins for you.

One of the largest markets for opiates in the country was the soothing syrup trade, aimed primarily at infants who were giving their parents a hard time by crying and carrying on, or who made the mistake of appearing sickly. This genre of medicines included prep-

arations which were known as baby syrups, colic cures, infants friends, teething concoctions and so forth. Parents were put at ease by labels which assured that the preparation 'contains nothing injurious to the youngest babe' and that 'Mother need not fear giving this medicine to the youngest babe, as no bad effects come from the use of it.' Laws were passed to prevent such claims appearing on preparations which did, in fact contain addictive and toxic doses of opiates, but then, as now, the laws were quickly circumvented by quick-thinking entrepreneurs. A representative list of products offered to distraught parents of uptight infants looks something like this:

- Dr James' Soothing Syrup Cordial—Heroin
- Children's Comfort—Morphine Sulphate
- Dr Fahrey's Pepsin Anodyne Compound  
—Morphine Sulphate
- Dr Fahrey's Teething Syrup—Morphine and Chloroform
- Dr Miller's Anodyne for Babies—Morphine Sulphate and Chloral Hydrate
- Dr Fowler's Strawberry and peppermint Mixture  
—Morphine
- Gadway's Elixir for Infants—Codeine
- Dr Grove's Anodyne for Infants—Morphine Sulphate
- Kopp's Baby Friend—Morphine Sulphate
- Dr Moffet's Teething Compound—powdered Opium
- Victor Infant Relief—Chloroform and Cannabis Indica

- Hopper's Anodyne, The Infant's Friend  
—Morphine Sulphate
- Mrs Winslow's Soothing Syrup—Morphine Sulphate

There are a number of cases on record in the medicals of this period of infant drug addictions; a very few infants died of liberal doses of these friendly snake oils. The addicted child syndrome was quite common—as soon as the effects of one dose of the soothing syrup wore off, the child became irritable and raised a fuss which led to a quick mouthful of the medicine to quiet the ruckus. Infant addicts appeared plump and healthy and, except for their periodic tantrums when Mama was late with the elixir they appeared on the surface to be pink and pacific. As a matter of fact, however, their metabolism was very poor, they withstood illness very badly and their musculoskeletal development was seriously impaired.

Shortly after several of the more restrictive laws had been passed, some manufacturers of these soothing syrups began putting out products which were, in all respects, the same except that the syrups no longer contained the opiates and other narcotics. These new products apparently did not give satisfaction to the harried motherhood of the country, for there were immediate and vocal demands that the 'old kinds' of preparation be put once more on the market.

# Solar Energy

## SOLAR ENERGY AND THE AUSTRALIA PARTY

Ian Modistach, convenor of Alternative Power group.

In November last year (1977) the Australia Party in South Australia took a new direction in the struggle against Uranium mining. Prompted by an alternative energy fair held on November 26th some of our members built a demonstration Solar Engine which was displayed at the fair. The engine was later taken to the Down to Earth Confest at Bredbo where it created a great deal of interest.

Our group, known as the Alternative Power group, now intends to develop a working model of a Solar power plant based on principles applicable to a large scale installation which could replace nuclear or fossil power stations.

Perhaps I should describe some of Solar Energy options available and give some insight into our present program of energy development.

Solar cells are not a do-it-yourself technology and at present our group is unlikely to make any radical contributions in this area. Solar cells typically have an efficiency of between 10% and 18%, the actual performance depending on the type of technology used and their cost. Efficiencies of 20% will probably be the ultimate limit for solar cells. Each square metre of the earth's surface, on the average, receives about 1000W (1KW), so if we have a square metre of solar cells in bright sunlight with an efficiency of, say, 15% then we will get 150W, enough to run two 75W electric lights. Cost predictions suggest that solar cells will produce electricity cheaper than nuclear by 1986 ('Electronics Australia', Jan. 1978). By placing a concentrator (lens or mirror) in front of solar cells their output can be raised considerably with a dramatic reduction in cost. The principal of placing a concentrator on to solar cells is one of our long term demonstration options.

For a more effective system of producing solar power we are faced with some form of heat engine driving an alternator or generator. The solar energy may be gathered by either flat plate or focussing collectors. Flat plate collectors are those used on hot water services. They require no tracking mechanism, and work well in either direct or diffuse radiation (diffuse - when there is some cloud cover). A practical upper temperature of about 120°C puts a serious limitation to their use in driving heat engines. The other limitation is the need to get the heated fluid from the collectors to the engine. In a large installation the associated plumbing - which would have to be insulated - would make such a

system very clumsy. An overall efficiency of about 10% to 15% could be obtained.

Focussing collectors offer more exciting possibilities. The energy is collected by an array of mirrors (they may be parabolic or flat depending on their numbers) and simply shot through the air to a receiver right on the heat engine itself. Thus the need to circulate the heated fluid is eliminated. The overall efficiency can also be much higher due to the higher temperatures reached. Such a system could operate with up to 30% efficiency with today's technology. The need for a tracking system makes these collectors less attractive but in practice with appropriate fabrication and tracking techniques this disadvantage can be tolerated.

It is with an appreciation of the options available we have chosen to concentrate on the focussing collector coupled with a high temperature heat engine. A further deciding factor in favour of the high temperature option is the suitability of other heat sources such as wood, methane or alcohol to be used efficiently for our engine.

Our choice of heat engine includes steam, either reciprocating (with pistons - like the ones on locomotives) or turbines (used in power stations) or Stirling Cycle machines.

Steam engines, especially of the reciprocating type, seen at first examination, an attractive option. The technology is well established and good power outputs are easily obtained. A closed cycle (that is, the used steam is cooled to water and returned to the boiler) overcomes the problem of excessive water consumption and even allows one to use working fluids such as freon or ammonia which can produce very good

powers at low temperatures. However boilers, even the flash type (that is, they heat up very quickly) tend to be bulky and you need a licence to operate a boiler thus restricting the access, at present, to this type of engine. In small sizes the efficiency of a closed cycle steam engine (the Rankine Cycle) is limited to about 20%, that is only 20% of the heat put into the boiler produces mechanical energy.

Turbines, especially in large sizes, can produce efficiencies of 40% or so. However to produce a large turbine is way beyond our resources and expertise.

Stirling cycle machines use a gas such as air or helium as the working fluid and are closed cycle machines - that is, the same working fluid is used over and over again. There is no boiler as such and heat may be applied either directly to the end of the cylinder or through fins or tubes on the end of the cylinder. These engines are remarkably simple and have achieved efficiencies of 38%. They are not without problems, especially in lubrication of the cylinder, but with the advent of new materials and better understanding of these engines, most of the problems are solvable. Our demonstration engine is a Stirling engine built from plans in 'Popular Science'. It is very simple and uses air at atmospheric pressure for the working fluid. The collector area is 1/10 sq. metre (that is 100W) and the power output is estimated at 5 to 10W, most of the losses occurring through the primitive focussing system we use and the high friction of this particular engine. But it works, and we have learnt so much from it.

Thus, spurred on by our tiny achievement, we have committed ourselves to the Stirling Cycle engine.

Stirling engines may take many forms and configurations, but an arrangement containing two pistons in the one cylinder is very effective. A great deal of work has been done on engines of this type. Their only disadvantage seems to be sealing of the working fluid and the rather complicated mechanical arrangement needed to work the two pistons. Advanced engines use highly pressurised working fluid in order to increase their power output, but this complicates sealing.

Another promising configuration is the Free Piston Stirling Engine which is absurdly simple having only two moving parts, the pistons. They produce only reciprocating motion, the pistons being controlled by gas pressure in a simple chamber built into the engine. They are suitable for driving things which work on reciprocating motion such as pumps or a special type of electrical generator called a linear alternator. These engines are best sealed completely so that the working fluid, usually helium under great pressure, cannot escape. The chief problem of course is getting the power out of a sealed capsule. Electrical power can easily pass out through sealed wires but if the engine is to be used as a pump, more cunning techniques must be employed.

Hybrid engines, hopefully, combine the simplicity of the free piston engines with a rotary output shaft allowing conventional generators and machines to be powered. As far as I am aware, no hybrid engine has worked successfully.

Our group will attempt to produce a working hybrid engine. Knowledge gained in pursuing this goal will give us experience in producing a free piston engine at a later date. We will need to do

some work on linear alternators in order to increase their output to useful levels.

Keeping in mind that our ultimate aim is to convince the public that Solar energy is viable, we will probably pursue the following program.

Collect data and information on Stirling engines to allow us to build a hybrid engine coupled to a focussing collector and generator producing enough power to drive a typical domestic appliance, say a washing machine, and to gain as then we can fall back onto an existing design.

Experiments and the building of a test rig in an attempt to produce a linear alternator with an output of about one Kilowatt (1KW). Should this be successful then this alternator will be coupled to a completely sealed free piston engine.

The next stage will be to couple either the free piston alternator or our earlier more conventional alternator to a completely automatic tracking solar system modelled after proposed large scale power plants. Again we will seek as much publicity as we can on these developments.

Then we may catch up on some sleep.

To date our theoretical work suggests that our hybrid engine will be successful. We now have a great deal of information and performance data on Stirling engines, and coupled with the success of our first model, feel we can achieve our aims.

Naturally for a small group such as ours we are up against time and money and so our progress will be slow. Enthusiasm and dedication are on our side, as well as our commitment towards a sustainable economy. If we don't do something positive in this direction, who will?

If you would like further information, please write to the Australia Party S.A., P.O. Box 6, Burnside 5066.

The following articles from 'Popular Science' are extremely informative:

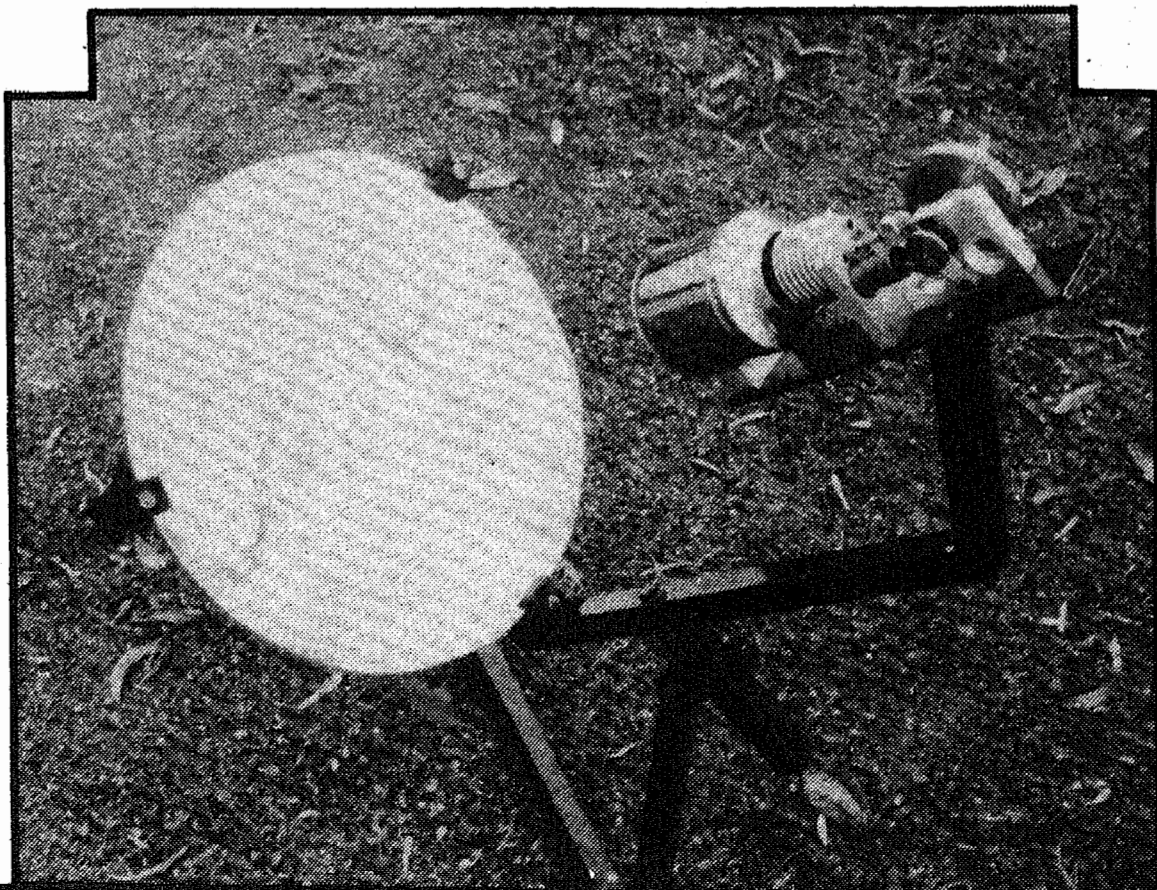
"Solar Power Tower" - describes solar power plants. October '75.  
"Plans for model Stirling Engine" April '61.

Various articles on Stirling Engines - June 1974, April 1976.  
Free piston engines - August '74, January 1975, February 1975.

This list is not complete and we will attempt to fill in these gaps in future articles.

Ian Modista

Extn 2443, Mech. Engineering  
A.P.C. Club OR  
AU. Cané



# BARBAROUS RITUALS

## Woman Is...

Woman Is:

kicking strongly in your mother's womb, upon which she is told, 'It must be a boy if it's so active!'

being tagged with a pink beaded bracelet thirty seconds after you are born, and wrapped in pink blankets five minutes thereafter.

being confined to the Doll Corner in nursery school when you are really fascinated by Tinker Toys.

wanting to wear overalls instead of 'frocks'.

learning to detest the words 'dainty' and 'cute'.

being labelled a tomboy when all you wanted to do was climb that tree to look out and see a distance.

learning to sit with your legs crossed, even when your feet can't touch the floor yet.

hating boys - because they're allowed to do things you want to do but are forbidden to - and begin told hating boys is a phase.

learning that something you do is 'naughty', but when your brother does the same thing, it's 'spunky'.

wondering why your father gets mad now and then but your mostly sighs a lot.

Seeing grownups chuckle when you say you want to be an engineer or doctor when you grow up - and learning to say you want to be a mommy or a nurse, instead.

wanting to shave your legs at twelve and being agonized because your mother won't let you.

being agonized at fourteen because you finally have shaved your legs, and your flesh is on fire.

being told nothing whatsoever about menstruation, so that you think you are bleeding to death with your first period, or:

being told all about it in advance by kids at school who titter and make it clear the whole thing is dirty, or:

being prepared for it by your mother, who carefully reiterates that it isn't dirty, all the while talking just above a whisper, and referring to it as 'the curse', 'being sick' or 'falling of the bed'.

feeling proud of and disgusted by your own body, for the first, but not last, time.

dying of shame because your mother makes you wear a 'training bra' but there's nothing to train, or:

dying of shame because your mother won't let you wear a bra and your breasts are bigger than other girl's your age and they flop when you ran and you sit all the time with your arms folded over your chest.

feeling basically comfortable in your body, but gradually learning to hate it because you are: too short or tall, too fat or thin, thick-thighed or bigwristed, large-

eared or stringy-haired, short-necked or long-armed, bowlegged, knock-kneed, or pigeon-toed - something that might make boys not like you.

wanting to kill yourself because of pimples, dandruff, or a natural tendency to sweat - and discovering that commercials about miracle products just lie.

dreading summertime because more of your body with its imperfections will be seen - and judged.

tweezing your eyebrows/bleaching you hair/scraping your armpits/dieting/investigating vaginal sprays/biting your nails and hating that and filing what's left of them but hitting the quick instead.

liking math or history a lot and getting hints that boys are turned off by smark girls.

getting hints that other girls are turned off by smart girls.

finally getting turned off by smart girls, unconsciously dropping back, lousing up your marks, and being liked by the other kids at last.

having an intense crush on another girl or on a woman teacher and learning that that's unspeakable.

going to your first dance and dreaming about it beforehand, and hating it, just hating it afterwards: you didn't dance right, you spilled the punch, you were a wallflower in anguish (or: you were popular but in anguish

because your best friend was a wallflower); you said all the wrong things.

being absolutely convinced that you are a clod, a goon, a dog, a schlep, a flop and an utter dolt.

discovering that what seems like everything worthwhile doing in life 'isn't feminine', and learning to just delight in being feminine and 'nice' - and feeling somehow guilty.

masturbating like crazy and being terrified that you'll go insane, be sterile, turn into a whore, or, destroy your own virginity.

getting more information any way you can, and then being worried because you've been masturbating clitorally, and that isn't even the 'right way'.

swinging down the street feeling good and smiling at people and being hassled a piece of meat in return.

having your first real human talk with your mother and being told about all her old hopes and lost ambitions, and how you can't fight it, and that's just the way it is: life, sex, emn, the works - and loving her and hating her for having been so beaten down.

having your first real human talk with your father and being told about all his old hopes and lost ambitions, and how women really have it easier, and 'what a man really wants in a woman,' - and loving him and hating him for having been beaten down - and for beating down your mother in turn.

brooding about 'how far' you should go with the guy you really like. Will he no longer respect you? Will you get - oh God - a 'reputation'? Or, if not, are you a square? Being pissed off because you can't just do what you feel like doing.

being secretly afraid that you will lose your virginity to a tampon, but being too ashamed to ask anyone about it.

lying awake wondering if a girl really can get pregnant by the sperm swimming through her panties.

having a horrible fight with your boyfriend who keeps shouting how he's frustrated by not 'doing it' - it never occurring to him that you might be climbing walls too, which you maybe don't even dare to admit.

finally screwing and your groin and buttocks and thighs ache like hell and you're all wet and maybe bloody and it wasn't like a Hollywood movie at all but Jesus at least you're not a virgin any more but is this what it's all about? - and meanwhile he's asking, 'Did you come?'

discovering you need an abortion, and really learning for the first time what your man, your parents, and your society think of you. Frequently paying for that knowledge with your death.

finding that the career you've chosen exactly more than just study or hard work - an emotional price of being made to feel less a woman'.

finding that almost all jobs open to you pay less for harder work than to men.

being bugged by men in the office who assume that you're a virginal prude if you don't flirt, and that you're an easy mark if you are halfway relaxed and pleasant.

learning to be very tactful if you have men working 'under you'. More likely, learning to always be working under men.

becoming a woman executive, for God's sake, and then being asked to order the delicatessen food for an office party.

finding out how difficult it is to get hold of 'easily accessible' birth-control information.

chasing the slippery diaphragm around the bathroom as if in a game of frisbee the first time you try to insert it yourself, or:

gaining weight, or hemorrhaging, or feeling generally miserable with the Pill, or just freaking out at the scare stories about it, or: going on a cross-country car trip in a Volkswagen, during which the Loop or the Coil becomes dislodged and begins to tear at your flesh.

wondering why we can have live color telecasts of the moon's surface, but still no truly simple, humane, safe method of birth control.

going the rounds or showers, shopping, money worries, invitation lists, licenses - when all you really wanted to do was live with the guy.



quarreling with your fiance over whether 'and obey' should be in the marriage ceremony.

secretly being bitched because the ceremony says 'man and wife' - 'husband and wife' or 'man and woman'. Resenting having to change your (actually, your father's) name.

having been up since 6.00 am on your wedding day seeing family and friends you really don't even like and being exhausted from standing just so and not creasing your gown and from the ceremony and reception and travelling and now being alone with this strange man who wants to 'make love' when you don't know that you even like him and even if you did you desperately want to just sleep for fourteen hours, or:

not getting married, just living together in 'free love' and finding out it's just the same as marriage anyway, and you're the one who pays for the 'free'.

playing the role to the hilt, cooking special dishes, cleaning etc. - and knowing you'll never make it as Good Housekeeping's 'ideal', or:

'dropping out' together to a 'hip groovy' commune - and cooking brown rice instead of Betty Crocker.

having menstrual cramps each month quite normally, cramps and/or nausea that would put a 'normal man' out of commission for two weeks - and going on with your job or chores, etc. so no one will be inconvenienced.

finding out that you're bored by your husband in bed.

faking an orgasm for the first time: disgust, frustration - and relief (because he never even knew the difference).

feeling guilty for not having an orgasm: what is wrong with you?

finding out that you bore your husband in bed. Getting desperate - where have you failed?

wanting desperately to know what special 'things' he wants you to do to him in bed' - and being afraid to tell him what you'd want him to do; or telling him hints that he promptly forgets for ever after.

wanting to be the power behind the throne and finding out either that he's not a great man after all, or that he doesn't need your support.

being jealous and hating yourself for showing it.

hating certain books that you might have loved - all because he read them first and told you all about them. Feeling robbed. This goes for movies, too.

wanting to go back to school, to read, to join some things, do something. Why isn't home enough for you? What's wrong with you?

coming home from work - and starting in to work: unpack the groceries, fix supper, wash up the dishes, rinse out some laundry, etc. etc.

feeling a need to say 'thank you' when your guy actually fixes himself a meal now that you're dying with the flu.

getting pregnant, hearing all the earth-mother shit from everyone, going around with a fixed smile on your terrified face.

having men on the street, in cabs and busses, no longer (at least) regard you as an ogre-object; now they regard you as Carrier Of The Species.

knowing there must be some deep-down way to enjoy this that maybe women in some 'primitive' tribe feel, but being elephantine, achy, nauseated - and kvetched at having to be cheerful.

wanting your husband with you, or wanting natural childbirth, either he won't or the doctor or hospital won't - and you're on your own, or:

maybe you're lucky and he's not afraid or disgusted and the doctor approves and you go through it together and it's even beautiful - and you hear another woman screaming in solitary labor next door.

feeling responsible for more lives - your kid's as well as your man's - but never, never your own life.

learning to hate other women who are; younger, freer, unmarried, without children, in jobs, in school, in careers - whatever. Hating yourself for hating them.

trying desperately not to repeat the pattern, and catching yourself telling your daughter one day that she isn't acting like a lady', or warning your son, 'not to be sissy'.

knowing that your husband is playing around and wanting to care, but not even being able to.

being widowed, or divorced, and trying to get a good job - at your age.

claiming not to understand the 'revolt' of your kids, but understanding it in your gut and not being able to help being bitter because you think it's too late for you.

still wanting to have sex but feeling faintly ridiculous before your husband, let alone other men.

being patronized and smirked over by your own children during the agonizing ritual of widowhood dating.

getting older, getting lonelier, getting to die - and knowing it wouldn't have had to be this way, after all.

This coming week (the last before the Australian Broadcasting Tribunal's hearings begin) proves to be the best yet for viewers, since we began this column back in June. Of course, the hearings, where the channels may theoretically lose their licenses, don't have anything to do with it, and we in 'On Dit' just have naturally suspicious minds. 79 hours 55 mins may actually be worthwhile watching this week, or an absolutely staggering 18.0% of programmed hours. Isn't it amazing?

Even so, if all the stations can manage is less than a fifth of their programs being POSSIBLY okay, then it's pretty abysmal, isn't it? Even at a time when in theory at least, their licenses may depend on it.

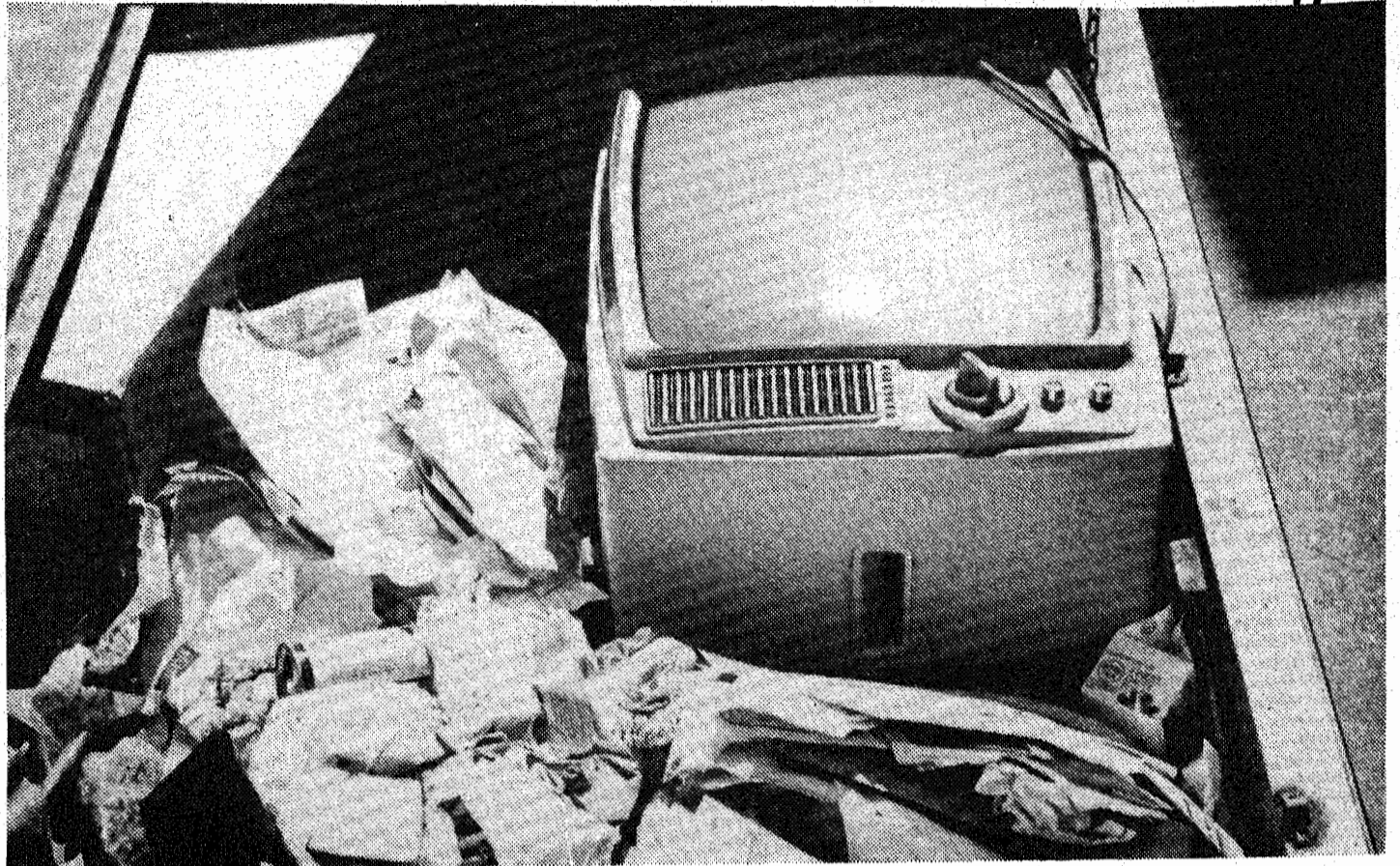
Leading the ratpack are ADS 7, with 24.9% of their programs (26 hours 40 mins) being 'recommendable' (is there such a word?), followed by ABS 2 at 23.7% (24.20), SAS 10 at 16.3% (19.35), and as usual, NWS 9 coming in a very poor last at a miserable 8.2% (9.20). Pathetic, isn't it?

We wonder if ownership has anything to do with it? Look at ABS; they are Government owned, and at least show some signs of acknowledging the diversity of the viewing public. ADS7 are a public company listed on the Adelaide Stock Exchange, although 50.67% of their share capital is held by three groups: Advertiser Newspapers Ltd., Herald Newspapers Ltd., and a British group, Associated Newspapers Ltd.

Last week, we claimed that the bulk of the recent increase in quality viewing was composed of once-off shows, movies and specials, etc. We've checked our figures (being meticulous, and shit scared of being caught out), and of the roughly 80 really good movies. Altogether, movies comprise 38 hours 55 mins of the total (48.7%), and when 'specials' are added, the total comes to 44 hours 55 minutes or 56.2% of the total.

So, for over half the programs we can recommend, there is absolutely no guarantee that next week there will be a program of comparable quality in their places. Next week, quality programming could easily be down to 35 hours. To put our money where our mouths are, we will offer a prediction: by November, with the Tribunal hearings safely out of the way, the proportion of decent shows will be down to a half to two thirds of the current level. (We shudder to think what it will be like by Christmas).

# TV Crime\$



## SATURDIT OCTOBER 7

6.00 pm 2  
COUNTDOWN - Rec. for Kerry Hinton  
6.30 pm 7  
GOOD OLD DAYS OF ROCK AND ROLL - Rec. if you like early rock 'n' roll.  
6.30 pm 10  
YOUNG TALENT TIME - Rec. family viewing.  
7.30 pm 2  
QUEST '78 - Rec. family viewing.  
8.25 pm 2  
FOUR CORNERS - Rec. current affairs.  
8.30 pm 7  
NOBODY RUNS FOREVER - Recommended detective movie with an Australian theme, even though it's probably rubbish.  
8.30 pm 10  
BONNIE AND CLYDE - Rec. for curiosity value and those who like blood 'n' guts gangster movies. It is VERY violent.

## SUNDIT OCTOBER 8

10.00 am 2  
CHESS - Excellent, Karpov vs. Korchnoi.  
11.30 am 2  
VISION IN MIND - Excellent series, with a religious theme.  
12.30 pm 2  
FOUR CORNERS - excellent current affairs.  
1.00 pm 7  
THE OLYMPIAN - Rec. should be very interesting.  
1.30 pm 10  
MOBY DICK - Excellent movie, particularly for children.  
1.55 pm 2  
DOCUMENTARY - Rec. all about oil-rig construction in the North Sea.  
3.10 pm 9  
MY SIDE OF THE MOUNTAIN - Excellent children's movie.  
5.00 pm 7  
JEOPARDY - Rec. for high school children.  
6.00 pm 2  
COUNTDOWN - Rec. for teenyboppers and Kerry Hinton  
7.30 pm 7  
THE MUPPETS - Rec. family viewing.  
7.30 pm 9  
SOUND OF MUSIC - Excellent congratulations to NSW 9, particularly for showing it against garbage on the other channels.  
7.40 pm 2  
MARIE CURIE - should be excellent. A review please?  
8.30 pm 2

THE LONG SEARCH - Excellent series on comparative religion.  
9.30 pm 2  
CLEO LAINE - Rec. for those who love GOOD music.  
MONDIT OCTOBER 9

10.00 am 7  
TAMAHINE - Rec. for light but VERY funny entertainment.  
12 noon 7  
FROM THE TERRACE - An excellent example of the early work of Newman and Woodward, who in some ways pioneered much of the social comment of modern movies.  
7.35 pm 10  
M\*A\*S\*H\* - Rec. hilarious American comedy.  
8.00 pm 2  
WILDLIFE AUSTRALIA - Rec. a very interesting program.  
8.35 pm 10  
THE STALKING MOON - Although Noel Risby wasn't too impressed by this effort by Gregory Peck and Eva Marie Saint, I enjoyed it and will watch it again; rec. as a very good Western.  
9.20 pm 2  
MONDAY CONFERENCE - Rec. current affairs.  
10.15 pm 2  
ROCK FOLLIES - Recommended.  
10.20 pm 9  
WORLD MASTERS SNOOKER - Recommended.  
10.30 pm 7  
THRILLER - Recommended, always a good show.  
11.10 pm 2  
TDT - Recommended, despite the ridiculous hour.  
11.20 pm 9  
THE LAST OF THE AUSTRALIANS - Rec. Australian comedy.

## TUESDIT OCTOBER 10

1.30 pm 10  
THE HAWAIIANS - Rec. on the strength of the 'Paradise' movies, which were excellent. Gary Cooper is replaced by Charlton Heston. From the saga by James A. Michener, who in many ways is Hemingway's successor.  
7.30 pm 2  
GEORGE AND MILDRED - Rec. British Comedy.  
7.30 pm 7  
AGAINST THE WIND - Rec. Australian History serial.  
7.30 pm 9  
PAUL HOGAN SHOW - Highly rec.; ockerism lampooned.  
8.30 pm 2  
PORRIDGE - Rec. by that minority pressure group, the 'On Dit' editor.  
8.35 pm 10  
BARRY HUMPHRIES - Highly recommended - good ocker comedy.

# Media

9.05 pm 2  
 CALLAN - Rec. by the same minority pressure group.  
 9.30 pm 7  
 DIARY OF A MAD HOUSEWIFE - Rec. should be a very good movie.  
 10.05 pm 2  
 ARTS IN PERSPECTIVE - Excellent.  
 11.05 pm 2  
 TDT - Recommended, although it pains us.  
 WESNESDIT OCTOBER 11

12 noon 7  
 THE CHALK GARDEN - Excellent movie, one of Deborah Kerr's best.  
 1.35 pm 10  
 THE PROUD AND THE PROFANE - Rec., a sensitive wartime drama.  
 7.30 pm 7  
 1978 RINGLING BROS/BARNUM & BAILEY CIRCUS - Rec. family viewing.  
 9.35 pm 2  
 THEY ALL PLAY RAGTIME - Rec., the history of ragtime.  
 10.35 pm 10  
 THE LAST CHILD - I recommend this movie because I THINK I've seen it before, under the title 'ZPG'. If so, it's very good; if not, it should be interesting anyway (for sci-fi fans especially).  
 11.00 pm 9  
 THE LAST OF THE AUSTRALIANS - Rec. Australian comedy.  
 11.15 pm 2  
 TDT - Recommended, Words are starting to fail us.

THURSDIT OCTOBER 12

12 noon 7  
 DAVID AND BATHSHEBA - Rec. a fine Biblical epic.  
 7.30 pm 2  
 HARRY BUTLER - Rec. nature program.  
 8.30 pm 7  
 NORMAN GUNSTON - I hate it, but it's so popular I have to recommend it (the brothers Coleman would not have it otherwise).  
 9.05 pm 2  
 STUART WAGSTAFF PLAYHOUSE - Recommended, I like it better every week.  
 10.00 pm 10  
 SOFTLY SOFTLY/TASK FORCE - Excellent, but why so late.  
 10.10 pm 2  
 NANA MOUSKOURI - Excellent (final program).  
 11.00 pm 2  
 TDT - Recommended. Ridiculous at this hour, though.  
 11.00 pm 9  
 SPYFORCE - Rec. because it's Australian (even if it's macho rubbish).

FRIDIT OCTOBER 13

12 noon 7  
 GREEN DOLPHIN STREET - Excellent, although now very dated.  
 1.30 pm 10  
 THE PRINCE AND THE PAUPER - Excellent, a gem from 1937.  
 7.30 pm 2  
 THE SCARLET PIMPERNEL - Excellent, brilliant and superlative. This is one of the real screen greats, made in 1935, starring Leslie Howard, Merle Oberon, Raymond Massey and produced by the brilliant Alexander Korda. Although it's 43 years old, there have been few movies made to equal it; perhaps Laughton's 'Hunchback', or his 'Mutiny'. This is one of the rare occasions where the screen has done justice to a piece of great literature.  
 9.15 pm 2  
 DAVE ALLEN AT LARGE - Rec. comedy.  
 9.30 pm 7  
 LOVE IS A MANY SPLENDORED THING - This makes Fridit a television night for young Laverick. This beautiful, poignant story was based on the autobiography of Han Suyin and is without doubt the best, most sensitive and most authoritative account on film of some of the tragedy to emerge from the Chinese Revolution. It has made a fool of me before, and will doubtless do so again. This film competes with 'Pimpernel' as my movie of the week, although, 'The Chalk Garden' must run very close. It was the first movie William Holden made about the heartbreak and pathos of East meeting West, perhaps the most famous being 'The World of Suzie Wong', and it is easily the best. Holden and Jennifer Jones give marvellous performances; watch it.  
 10.40 pm 2  
 TDT - Recommended.  
 11.30 pm 7  
 BLACKBOARD JUNGLE - Recommended. It's very dated, but very good.

# MIRANDOLINA

ITALIAN FESTIVAL  
 OCTOBER 1978  
 THE UNIVERSITY OF  
 ADELAIDE THEATRE GUILD  
 ENSEMBLE presents

MIRANDOLINA  
 (La Locandiera)  
 By Goldoni

With special guest director,  
 RAYMOND OMODEI

A vivacious comedy of great wit and charm.....All that Goldoni offers is simply enjoyment.

".....fine, sweet, and witty..... assembled like parts in a sunlit landscape".

".....this horrible hygienic and sanitary state of affairs, this unbridled filth, this ambiguous rationality, this disturbing refinement, this furious capitalist misery."

These comments on Goldoni in general and *Mirandolina/La Locandiera* in particular are a fair if brief representation of twentieth century reaction to his work and at once indicate the range of possible interpretation of his theatre: from comfort and reassurance to disturbance and repulsion.

Largely neglected by the English speaking theatre, chiefly because of the generally unspeakably poor translations, Goldoni's continuing popularity in Italy and Europe demands our attention. He is known to us in English for *The Servant of Two Masters*, a bravura piece in which he brilliantly disciplined the hackneyed devices of the ancient commedia dell'arte. However, to know him by this single work is arguably to know Shakespeare only by *Love's Labours Lost!*

The Italian Festival is an appropriate opportunity to redress this imbalance and the obvious choice is *Mirandolina/La Locandiera* - an acknowledge masterpiece from his prolific maturity when his



mastery of the theatre was at its height. In a sense *Mirandolina* is the first modern comedy in that it is preoccupied neither with the aristocracy nor with the stock figures of the old commedia dell'arte - the Harlequins, Pantalones and Columbines - but with real characters who live and breathe and feel, whose actions are motivated from life and are recognisably human. Their reactions to the plot are no longer stereotyped or simplistic but confused, ambiguous and contradictory. The mood varies from seriousness to farcical merriment.

As there is no living tradition of playing the piece in English we have decided not to opt for the obvious choice of presenting it as a "comedy of manners" period piece with powdered wigs and eighteenth century cut-out scenery, but to emphasise the fascinating human relationships between the characters in a more natural and realistic setting. Most English versions of the play delete two characters, a pair of itinerant actresses. These good ladies have been restored in this production.

## O Camps

### ORIENTATION CAMPS 1979

The Students Association is calling for applications for Directors and Cooks for the 1979 Orientation Camps.

The Camps are to be held at Kursa Youth Camp at Aldinga Flat during February of 1979.

The Directors are expected to organise most aspects of the camps (they must prepare a bud-

get, organise food, activities, transport, helpers, etc.).

Applications should be forwarded to the President of the Students Association c/- The Students Association.

Applications should include previous experience and personal philosophy on the objects and functions of O-Camps. Joint applications are encouraged.

Applications for cooks should be forwarded to the President of the Students Association (as above) and should detail past experience, and suggestions for menus. Again joint applications are encouraged.

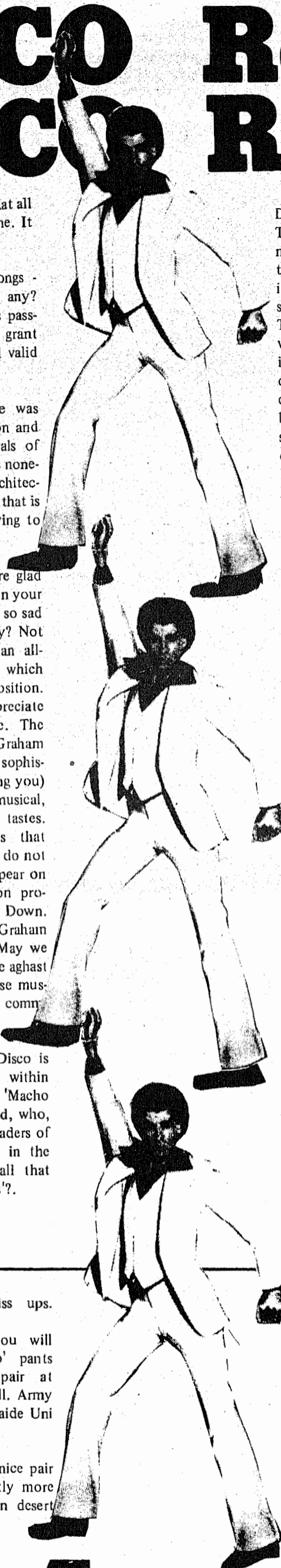
Applications should reach the President no later than Friday October 13th.

KERRY HINTON  
 PRESIDENT

# Notes



# DISCO Reply DISCO Reply



Dear Editor,  
Mark Schwerdt's attitude symbolises the semantic, pendantic attitudes fostered by this University. He uses half his reply quibbling on the definition of University as distinct from the students in it. Pretentious, pompous splitting of hairs! That will not do. He knows what we meant.

We know that not everyone who comes to this University can afford to be chic and sophisticated - but the point is, do they have to despise those who are. The whole point of our letter was not hate, as Simon seems to suggest, but a plea for the fact that though he does not like disco music, does he have to denigrate it all the time. We don't despise the uncool people around this august and venerable institution - we feel sorry for them - but they do annoy us when they constantly sneer at discos and the people who go to them. Not only are they impertinent in criticising their letters, but it also sounds very much like sour grapes.

As for your assertions about discos! You obviously have not been to any. People who do not look like John Travolta ARE let in (which John do you mean anyway, a la Grease, or a la Saturday Night Fever? They are not the same you know). Of course they are let in, discos were around long before Saturday Night Fever, and will be long after. As for being blinded by megawatt flashing globes - we love it!

Disco music is not bland and boring - what an inane thing to say. How can you move to boring, bland music? It must have style, panache, beat - otherwise no-one will dance to it. As Don Page (D.J. at Jules) says, all disco music has to have the same background beat to make it dance-

able but that is not to say that all disco music sounds the same. It is obvious that it does not.

And of course they are songs - hasn't he ever listened to any? They may not be quite as passionate as Bob Dylan (I'll grant you that) but they are still valid as music.

The Sydney Opera House was built with the same passion and conviction as the cathedrals of Chartre, or Rheims, but it is nonetheless a valid piece of architecture, with something to say that is worth listening to and trying to interpret and understand.

'Disco has its place' - we're glad you concede us that much in your magnanimity - but what is so sad if it rules a part of society? Not that it does. It is not an all-encompassing force, which strangles and stifles all opposition. Most disco people appreciate other musical trends, i.e. The Saints, Elvis Costello or Graham Parker. Disco people are sophisticated, (we keep on telling you) and this applies to their musical, as well as their other tastes. M.Schwerdt also implies that the aforementioned bands do not want 'hits' - then why appear on commercial television, on programmes such as Count Down. Why, only the other night Graham Parker hosted the show. May we suggest that M.S. would be aghast at the revelation that these musicians actually want to be commercial successes.

Lastly, he implies that Disco is completely comfortable within modern society. Wrong! 'Macho Man' is a song by a band, who, as everyone knows are leaders of the Gay Lib. Movement in the U.S. - wouldn't you call that 'challenging society's goals'?

M' WILLIAMS  
M' ANDRIGHETTI

Dear Editor,  
If Simon Stretton thinks that entrance fees to discos dictate what class is allowed in them, he'll be surprised to learn that Jules is free most nights of the week and other discos (e.g. Olde Lion) often have \$1 discos with a nice supper included. I'm an average uni student with not much cash and yet I manage to get to quite a few discos and have a good time - a much better time than at most uni shows which are

expensive and just piss ups.

For clothes, Simon, you will find some satin 'disco' pants for only \$10.00 a pair at Innocenti in Rundle Mall. Army pants or jeans a la Adelaide Uni are about \$22 minimum.

Windsor Smith make a nice pair of disco shoes for slightly more than a pair of Harrison desert boots.

Dear Mark Schwerdt,  
This 'DISCO' bickering is 'going nowhere'. There are two sides to this repeated record. SO WHAT if M & M want to lock themselves in a disco and conform. They are old enough to know what they are doing they realize they do what they are told to do they realise they lack some individuality etc. But what is the big hassle anyway? M & M did not say that people should not sit down and analyse Pink Floyd's lyrics or not to agree with the Sex Pistol's view on the state of England's economy. M & M merely express the view that there are different kinds of music. And that Disco music is the type you dance to.

The Romones, Graham Parker, The Sex Pistols and The Saints are also musicians but they are also commercially orientated, even Bob Marley and The Whailers (who continually remind us of the unchangeable state of the Third World today) are in for the money, they have to be. These groups also have meaningless empty phrases and songs, for instance:-

'Hey Lord don't ask me questions' I mean is he serious when he sings this? and 'God save the queen.....' yet he adds 'she ain't no human being'. Now, does this make sense, I mean really make sense? I don't think so.

I'm sure M&M will NOT be surprised to know that society's goals (which you failed to specify) are being challenged - SO WHAT it is still another way of conforming to an ideal isn't it? Yet you seem to point out that the ideal we conform to is wrong (we as in the disco attenders). We know we are conforming; we are not conditioned to like it - we chose to do this because we enjoy it.

A John Travolta hairstyle costs the same as any other and is quite neat and practical for day time, disco time or apres disco.

The people Jules will not admit are a small class; the type that have tatoos and ripple sole shoes.

On one hand, Simon, you say 'disco' only belongs to a small class able to afford its costly style and yet you and other correspondents say it is a wide-spread disease (dare I say

I think the quote that Mark left us with is very good and yes it does describe some Australians but for heavens sake give us a break from all of societies hassles and pressures one night a week. University students are not totally apathetic to our economic situation and our gross unemployment problems, but must we be reminded constantly about them? We release energy and frustration when we get on that revolving silver floor we are also keeping fit. Which is more that I can say for those who just sit and listen to Bob Dylan telling them about a boxer who was unjustly treated by the law.

I am not saying you shouldn't do this and yes I know there are other ways of keeping fit that are just as fun, but do you meet so many different people? (one must find out). These people do not lack creativity that need to be creative on the floor (dance floor) and they are individuals once you get them outside. I can see M&M's point of view and I can also see yours Mark because I happen to be a person who is not narrow minded when it comes to enjoying music (YES insinuation intended).

JOANNE  
(arts)

## THE SCIENCE FICTION ASSOCIATION

The Science Fiction Association has asked for a plug for their magazine which appears to be known as Spectre. (It used to be known as glass keys, auto delirium, AD. ....), Rumour has it that they not only change the covers when they change the name...but you can find out by picking one up from clubroom S4. Free to members...

'Fever') throughout society.

I don't know who M & M are but I would like to - they sound like two well adjusted individuals. Their thoughts are a breath of fresh air to this paper and this institution. Obviously what they say is at the least important and provocative - (witness the replies to their letter) - but furthermore I believe it to be the truth.

DAVID BRENNAN  
(ARTS - FLINDERS UNI.)

# MUSIC

## COLE

### 'GUTS'

This is a compilation album from New York Strangeboy John Cale. Anyone who has influences numbering classical composition, Andy Warhole and Lou Reed can't be all that average. It is impossible to tell how much is posturing and how much is sincere, but nevertheless his music does possess a kind of unpindownable(?) feel which is quite attractive. For those unaccustomed to his strangeness this record is a good way into his music, as most of the stuff here is pretty straightforward compared to what he can get up to.

## DOLLY

### FAYE TUCKER SINGS

These recordings, made in Nashville some years ago have now been released in Australia due to the success of Dolly in the country. They are classic Nashville recorded, Nashville sung, Nashville played, Nashville arranged, Nashville produced, Nashville country music cover versions. They are so American the Blonde Hair and Hot dogs almost drip off the plastic. For country music fans only.

## TROWER

### CARAVAN TO MIDNIGHT

The most frustrating thing about Robin Trower is that he could have been great. He started out in the Jimi Hendrix style: feedback distortion and grandeur. But now, four or five albums later, he is no further on. He has fallen away from the power that is the basis of his whole style. Perhaps it is his lack of ego that's done it. One of the essential elements of great rock music is a maniacal involvement and belief in what one is doing to the exclusion of advisers, critics, hangers on, and even audience: this results in music that is great without the need of anything else; a vision, if you like. E-ho, phasing, and distortion used properly can make the electric guitar the most inspiring musical instrument, yet so few really seem to EXPLORE the texture of its sound. Robin Trower however is someone who does seem to understand, but his ego is not strong enough to take it beyond the formula he now works within. 'Caravan to Midnight' contains some nice melodies and nice guitar; but what to me is the saddest thing are the hints of what it could have been.

## MANDALA

### THE EYE OF WENDOR

(Chrysalis, L 36643)

I know you've all been waiting for an emotive account of the comings and goings in downtown Carthilia.....Well, here it is!

Carthilia, a civilization of the Atlantian ilk, comes complete with dying king, golden-voiced princess, sundry odd masties (including arch-villain-cum-slave-trader Silesandre) and, of course, a Hero called Florian!

What more can I say, except that Mandalaband contains an excellent company of musicians and a competent group of vocalists (including ex-Steeleye Span singer Maddy Prior) brought together by producer, writer and co-engineer Davy Rohl (who's he!?) and delivers an interesting, if a trifle cliched, concept album.

## PURIM

### 'EVERY DAY, EVERY NIGHT' (L 36627)

Flora Purim's selection ranges from Latin-America through 'disco' to the slow, easy sound of a late night jazz club.

The fuvious 'Sambe Michel' provide enough excitement for the whole album, and yet somehow it doesn't clash with the sleazier numbers, such as 'Why I'm Alone'.

The appearance of jazz great Herbie Hancock, together with a host of very talented session men makes one hope for a musically proficient album. Add a talented producer, Airo Moreira (who co-wrote four of the ten tracks with Purim and Michael Colombier - not to mention providing percussion throughout the album) and you have a slick, well balanced set, which deserves the attention of any ear but that of the hardened rock and roller.

## PARKER

### 'THE PARKERICCA' (6360 161 PHONOGRAM)

This is the record many people have been waiting for. Graham Parker's studio records have tended to seem a little dry for those who have been knocked dead by one of his live shows. Probably the best way to sum them up is to say that they are the archetypal pub rock group: the muso in Rumour are primarily what used to make up Brinzley Schwarz, the mainstay of the British local rock scene for a number of years. Most of it is not rock and roll in the true 50's sense, but more evidence-clearmater style dance music without the country overtones. Songs like 'Gypsy Blook' and 'Fools Gold' approach 'nice' songs, whilst the classic 'New York Stuffle' and 'Soul Shoes' rage the album to a close in good style. As a bonus, their current single 'Hey Lord Don't Ask Me Questions', a studio recording, is tacked on the end. A good value, unpretentious rock album.

## MICHAEL

### COURT TALENT ORIGINALS (ELPS 3914 CBS)

Michael Bloomfield is a white blues man with a difference; he feels the music. This solo album features quite a gallery of unknowns as his backing band but it nevertheless works fairly well. The music itself seems to be some kind of tamala mowtown blues derivation; the funk influence is evident on more than one track. It's such a pity that by the time they get to record these songs they've so bored with the 'dues paying' repetition they've had to labour through, they funk up the arrangements to relieve their object boredom. Maybe that's a little unfair, but I do feel they should stick to what they're good at: rhythm and blues.

## FAIRPORT

### FAIRPORT CONVENTION

Folk music owes a great debt to these characters. Although they don't really seem particularly brilliant at playing, writing, or production, they have done one thing which will put them into, and keep them in the history books of rock and roll: They have put folk music into the language of rock. Simply by their use of electric bass and guitar, with rock drums grafted to the traditional melodies of medieval folk they have provided a bridge which allows addicts of either genre to understand the other. My class-beef with traditional folk still remains: there are only such a limited number of melody lines which they rehash over and over. But, when the whole thing is allied with a rock backing, some quite interesting concepts evolve. If anything they prove the universality of melody that really does exist through every single style of modern and ancient vocal music.

## DOLLY PARTON

### DOLLY PARTON 'THE HEARTBREAKER'

Dolly is an institutionalised paradox. She sings soft and sweet country music, but appears as a dolled up tart. Short of blaming the capitalist running dog American music industry, one can only postulate schitzofrenia. This album is the second current album released in this country, and sees her head more away from country music to the more middle of the road style of female vocal.

# On Dit

## Opera

In Adelaide this month there are some notable vanities. One is Bellini's 'La Sonnemeula' a thoroughly unpretentious opera of Swiss/Italian peasant life. There is none of the social criticism of G & S's. The Sorcerer. The lord of the manor is very kindly.

However, in this opera the tenor is allowed to cry to express his feelings, an act forbidden in our sexist society. (BUT THEN ALL THOSE DAGOES ARE POOFTAS I'VE SEEN THEM ON THE WORLD CUP).

The tunes overflow. Given Annear will sing the title role Afro v who seemed in middle age in the mid fifties Aida with Sophia Loren will be the lord of the manor.

Its a simple gentle opera of great genuiness.

Student concession is \$3. Elitists may not be seeing any great stars but you will see a fine opera. The other vanity is G + S's GRAND DUKE. Performance dates will appear later.

After a string of anti establishment libretti Gilbert produced the smug reactionary THE GONDOLIERS which became immensely popular. To atone he produced UTOPIA LTD which challenged the most cherished belief of the nineteenth century - jingoism. This offended everybody greatly and flopped. The Grand Duck which followed is confused, forced and somewhat empty in the libretto. Gilberts rhymes include some of his weakest. Sullivans music is not his best but still curtains some very good tunes and remarkable choral writing. You will find it fascinating because you will not be able to compare it with performances past. Amateurs please - because they give of their best. What fier thing could there be?

I did not know about last weeks performance of Rossinis 'jolly opera' Habat Mater or of AUCS and FUCS association. Perhaps people wanting free publicity could drop me a line.

BULSTRODE WHITELOCKE

## SIDRAN

### A LITTLE KISS IN THE NIGHT ARISTA AL 4178 (EMI)

Not really knowing anything about Ben Sidran, I approached this album in a completely open-minded manner. Vocals and piano are by Sidran, who wrote 5 of the 8 tracks. David Woodford's sax playing is superb. Blue Mitchell (trumpet) and Phil Woods (alto sax) add further mood to the music. One also notes the guitar playing of Jesse Ed Davis on a couple of tracks.

I suppose this set could best be described as soft jazz. Overall, I enjoyed 'A Little Kiss in the Night' and found it relaxing listening. While being fairly laid-back in style, the musicians are precise and blend superbly. Sidram's vocals add to the smooth, restful feeling of the album.

Most enjoyable to listen to, so, if you appreciate fine music and good musicians give it a listen - you won't be disappointed.

ALAN MOYLE

## ARIEL

### MORE FROM BEFORE IMAGE ILP-795

Ariel were one of Australia's best bands, and this album again testimony to that fact. It does however become a bit tedious at times, particularly the over-long 'Some Good Advice' - a good live atmosphere cannot always be successfully transferred onto record.

Nevertheless, excellent versions of 'Jamaican Farewell' and 'Rock and Roll Scars' make this a worthwhile album for anyone interested in Australia's rock heritage.

VICTOR FLIERL

# MUSIC

SPECIAL OFFER FROM  
A.U.W.S.C.

NEED A BREAK IN THIRD  
TERM?

GIVE WATER-SKIING A TRY!

Everyone whos 'been for a lash' agrees it's an incredible buzz, and a great way to get some much needed physical exercise and relaxation from studies.

And who are the best people to water-ski with? Adelaide Uni Water-Ski Club, of course! And the purpose of this article is to tell you that there has never been a better time to join AUWSC than now. In an unprecedented extra special offer, the club has halved membership fee to five dollars. Yes, for a fiver you can become a member and take advantage of the most important time of the year for the club -namely summertime.

AUWSC owns a block at Morgan on the River Murray, complete with shed and two boats and all the equipment necessary to ski. Each weekend a member of the committee has the job of organising events at Morgan. Members who wish to ski on that particular weekend call the organiser and transport to Morgan (in members cars - those without cars never have trouble obtaining lifts) is arranged.

Sometimes people go up to Morgan for jsut Saturday or just Sunday, but most stay up for the whole weekend to take advantage of the excellent high quality accommodation freely available. The club has a whole stack of inner-spring mattresses and these are spread around the floor of the shed to guarantee a good nights sleep (for those who wish to sleep!).



## water ski

The social atmosphere on a weekend has to be experienced to be believed, with talks around the campfire, and two nearby hotels to visit playing a big part.

Skiing at the site of the block on the Murray is fabulous, as some calm water can always be found, even under the most adverse weather conditions. The club caters for all levels of ability in Skiing, and that includes those who have never even seen a speed boat before.

For those with a little more experience, the club is one of a few in Australia with its own jump and this provides a great challenge for skiers and heart stopping entertainment for spectators.

At the present time, petrol costs need to be covered on weekends, and so a nominal fee is charged

per ski, but without a doubt this club offers students of the cheapest water-skiing available in Australia.

Further benefits realizable upon joining AUWSC include social events held in Adelaide and receipt once a month of an exciting newsletter (said newsletter including details of future ski weekends).

This year is a particularly special one for the club, as we are hosts to the annual intervarsity and this is to be held on the Patawalanga in February next year.

So for something new and stimulating, take the initiative and this special opportunity to join the AUWSC now. Good times are guaranteed.

For further details and membership forms contact our President.

## Diving

Rapid Bay October Long Weekend.

This weekend is envisaged as a social weekend, which is why Rapid Bay was chosen instead of Yorke Peninsula (usual venue for long weekends, which involves a 600 km, round trip.) Although all club diving equipment will be taken along, the aim is to encourage members who have not been diving lately to come along and get to know the other club members. We have over seventy financial members at present, so be there and make yourself known.

It has the makings of a great weekend as there are some great dives around Rapid Bay and there are plenty of diving spots in the vicinity that are easily accessible from Rapid Bay.

# GLIDING CLUB

UNI GLIDING CLUB  
COMPLETES HANGER

Adelaide University Gliding Club continues to grow, physically if not in members. Club members have recently put the finishing touches to our new hanger - in reality a glorified shed large enough to fit 3 RIGGED sailplanes albeit sideways. Most of the construction was done 'voluntary' labour - thanks to Emilis the Dodds, Guy Harley, Michael, Peter Ashenden, Dene Larwood, Anton and others (sorry if I missed you out) who sacrificed flying and limb in building the thing.

The chore of rigging and de-rigging aircraft every morning and night is now no longer necessary. Thus there is more time for flying. Especially so with our new instructors - Graham Parker, David Biggs, Guy Harley and Niel Manktalow and a reconstituted winch - thanks to Des Masler; (and David Ellis for the sign writing) so members and prospective members can look forward to an excellent summer.

GRAEME NEWCOMBE

# Hair Centa

## Men's Hair Cutters

Upstairs, 149a Rundle Mall 223 3341



## Hoof In Mouth

As the 1977/78 racing season slowly draws to a close we may do well to have a retrospective look at this year's racing and consider the prospects of this years contenders for 'Horse of

the Year'. Each year both the Victorian Racing Club and Malboro conduct awards for 'Horse of the Year'. Since its inauguration back in 1972, Gay Icarus, Gunsynd, Taj Rossi, Leilani, Lord Dudley and Surround have been named as worthy and often clear winners. But for this year's award the task of naming the winner is more difficult. To me it seems like a race in four.

Family of Man this year has won four weight-for-age events and finished second in 3 others. His wins were in the premier WFA event the Cox Plate last November, and this last Autumn in the Reid Stakes and the Queen's Plate. His most notable defeat was to Always Welcome in the All Aged Stakes after Easter

after a memorable struggle over the last 600 m. During this season this son of Colleen became the highest winning horse in Australasia surpassing the previous record held by the now retired Battle Heights.

Ming Dynasty during this year has won numerous top races all of which have helped to stamp him as one of this years top con-season Show Ego now stands ready to establish herself as her highly successful sire Showdown's greatest daughter.

However despite these noteworthy feats I believe Maybe Mahal, the Bart Cummings trained mare, must be my pick for the award. Unable to perform her stud duties this daughter of Maybe Lad returned to racing

winning three major races on end: the 100m Lightning Stakes, the 1200m Newmarket Handicap (setting a weight carrying record for tenders for the award. His most notable victories were in the Caulfield and Australian Cups, and the Queen Elizabeth Stakes and recently he ran close placings in the Boomben and Brisbane Cups. Show Ego owned by Ken Cox, the treasurer of the VRC stamped herself as the nations top three year old with tremendous victories in the Victorian and Queensland Oaks, and the Australian Derby. Although lowering her colours on ten occasions (all the mares) and then under 57kg the 1600m Doncaster Handicap. She has become the highest stakes-winning mare in history and her tremendous performance to secure these victories with weights

usually only given to steeplechasers or Russian clean and jerk champions must put her high on the favourites list for this year.

Other contenders for this year's award must include Stormy Rex, who won three derbies, Lefroy and So Called for performances against their own age group, Raffinrale for his freak burst back in the Spring and Gold and Black for his victory over Reckless in the Melbourne Cup. However all of these contenders I feel fail to capture the magnificance of the performances of Maybe Mahal. She is so named On Dit's Horse of the Year and, if the VRC and Malboro see fit to concur then they will add yet another more than worthy name to their revered list of previous winners.

# Sport

# STUDENT RADIO

## WEDNESDAY

It's 10 o'clock on a week night and you're feeling stuffed. What you need is a little something before you go to bed. Well, through a devastating twist of fortune, you're just in time for Student Radio. For 2 hours every night the magic of radio brings you music, talks, news and laughs. It's all on 5UV on 530. Student Radio has a certain compulsive effect: it can soothe the body, excite the senses, arouse the mind and captivate the imagination.

On Wednesday its laid back, all the way back, with Paul Brady. We warn you its hairy, Paul plays new releases from 11 to 11.30 and introduces Jazz till 12, with Trevor John. In the first hour Donna Magraeth presents 'Angry Penguins' and Fiona Guthrie joins Paul James in a 'What's on in Adelaide' - style venues guide,, while later in the evening its time for 'independent view'.

Student Radio is presented by students, many from Adelaide University. It's for students and just about anyone else awake at that time of the night. In the next few weeks we'll be telling you a bit about S/R and how it works. This week we look at the announcers who bring you the programs each week.....

## MONDAY

On Monday night Simon Stretton, S/R's were wolf of the wireless comes over your rooftops seeking out anarchy in Adelaide. Simon plays lots of new wave (when he can) and folk (when he has to) with special interest in local bands and artists. Monday night is also time for 'outside in', current affairs with the A.U. Labor Club and 'hemp' (need we say more?).



## THURSDAY

UND Thursday 1st Der Brian Shrowder. Brian regularly sends thousands into blissful sleep with the relaxing sounds of 'spot - the - announcer - with - a - cold'. He says he's not kinky, but who can be sure? Thursday also means 'counterpoint' (current affairs) and, at 11, our second music special through to 12.

## TUESDAY

If you prefer your radio pleasures served both elegantly and well, with more than just a veneer of sophistication you'll be listening to Fiona Guthrie on Tuesday. (It's radio of a different complexion when Fiona lets her hair down - try and catch her one night when she thinks no one is listening). Fiona introduces Mark Thompson with 'experimental art', Gay Radio and our regular music special presented by people who know about music.



## FRIDAY

Student Radio on Friday night. Zap/Pow! It's party night, with an orgy of S/R entertainers - Jeremy 'Cordeaux' bruer, Paul 'Fuzz' James, and of course there's always Lisa Colley (certified folkie and restaurateur... still, she's very good.....no really, we mean it....) you can right in on 223 2699 to request your kind of music, and if it's our kind of music we'll play it. So isn't it good to know you can get pissed listening to something decent these days. Coming up is our latest additon to the S/R lineup, Kevin (hi there) Kennedy with 'Showbiz', a backstate tour of the theatre - spots of Adelaide.



These are just a few of the people working with Student Radio. Student Radio relies on the efforts of a large team of people to get it on the air for 5 nights a week. Later we'll be saying more

about our talks programs, our music specials and the behind - the - scenes programmers. Further to that, S/R will soon be re-organizing itself to get in to shape for 1979.

Very shortly we will be looking for new recruits to be trained during the holi-rays. Until then, keep listening on 5UV, 530, 10pm till midnight, Monday to Friday.

# THE UNIVERSITY OF ADELAIDE NOTICE TO STUDENTS CURRENTLY ENROLLED **ADMISSION IN 1979 TO A NEW OR DIFFERENT COURSE**

Except as indicated below any student currently enrolled in the University who seeks admission in 1979 to: A DIFFERENT UNDERGRADUATE COURSE, OR A POSTGRADUATE DIPLOMA IN APPLIED PSYCHOLOGY COMPUTING SCIENCE OR EDUCATION must apply for admission

Applications must be made through the South Australian Tertiary Admissions Centre (SATAC) and on the prescribed form, as follows:

UNDERGRADUATE COURSES ..... FORM R  
POSTGRADUATE DIPLOMA COURSES . FORM P

Application forms available from the University office, or from SATAC. The completed form must be sent or delivered to:

SATAC,  
RED CROSS HOUSE,  
228 NORTH TERRACE,  
ADELAIDE, S.A. 5000.

# CLOSING DATE 31 OCTOBER 1978

## LATE APPLICATIONS

LATE APPLICATIONS, IF ACCOMPANIED BY THE PRESCRIBED LATE FEE, WILL BE ACCEPTED BY SATAC UP TO 3 JANUARY 1979 AND CONSIDERED WITH THOSE RECEIVED BY 31 OCTOBER. THE LATE FEE IS \$10 FOR LATE APPLICATIONS RECEIVED BY 30 NOVEMBER, AND \$20 FOR APPLICATIONS RECEIVED AFTER 30 NOVEMBER. THE LATE FEE, WHICH IS PAYABLE TO SATAC, IS NOT REFUNDABLE.

## EXCEPTIONS

### 1. FULL-TIME STUDENTS TAKING A SINGLE SUBJECT IN ANY FACULTY

A full-time student in any course may in addition enrol for a single subject in another course (subject to the approval — in writing on the enrolment form — of the faculty advisers for both courses) without having applied for admission and having been selected for entry to that course. But, in this case, no assurance can be given that any subject so passed may later be counted towards a degree.

### 2. MATHEMATICAL SCIENCES

(a) A student who is currently enrolled in Arts, Economics or Science, and who wishes to pursue studies in Mathematical Sciences should discuss his proposed programme of study with the Assistant to the Dean of the Faculty of Mathematical Sciences. Subject to the approval of the Assistant to the Dean he should then enrol in the normal manner in February 1979.

(b) A student who is currently enrolled in a Faculty other than Arts, Economics or Science, who wishes to undertake studies in Mathematical Sciences should lodge an application form (Form R) with SATAC by the prescribed date. He is advised to seek admission to

either Arts, Economics or Science. When lodging his application he should refer, in Section 8 of the form, to his wish to pursue studies in Mathematical Sciences. Subject to his being offered admission to either Arts, Economics or Science he may then, with the approval of the Assistant to the Dean, enrol in the Faculty of Mathematical Sciences.

### 3. ENGINEERING — SCIENCE

A student who is currently enrolled in the third year of the course for the degree of B.E. and who wishes to intermit his Engineering studies to obtain the degree of B.Sc. is not required to lodge an application form with SATAC. He should discuss his programme of study with the Assistant to the Dean of the Faculty of Engineering and with the Assistant to the Dean of the Faculty of Science or of the Faculty of Mathematical Sciences, and then enrol in the normal manner in February 1979.

August 1978

H.E. WESLEY SMITH,  
Academic Registrar.