THE UNIVERSITY OF WOLLONGONG

THE PARKING PROBLEM

Initiatives for 1990, 1991 and beyond

THE UNIVERSITY is making continuing efforts to deal with the problems of staff and student parking. Parking on campus is becoming even more difficult due to our increasing population and the tendency for the total number of spaces to decline as new buildings are erected. In the past year we have lost over two hundred spaces and the total available is now 1,573.

At present we have a two-tier price structure. Category 1 permits (red) allow parking in any car park, other than those designated for particular individuals or functions, at any time. Category 2 permits (blue) are available only to students as a concession and provide only limited access to car parks before 4.30 pm on weekdays. It must be stressed that a parking permit is just that — something which gives the holder permission to park on the campus, in accordance with the regulations and subject to the availability of specifically marked spaces. No category of permit currently issued gives the holder the right to expect a place to be available at any time he or she chooses to enter the campus.

During 1990 we can only see the situation remaining difficult. The University is funding a bus service connecting Halls of Residence with the campus. This service is currently poorly used and we are trying to publicise it more effectively. Unless usage increases substantially the service will be withdrawn. One idea is to offer free parking at Campus East, finishing the journey by bus. If you think this would ease your parking problem please let me know.

In the long term a number of major initiatives are planned.

First, a new multi-storey parking station will be built, to open in 1991.

Second, the academic timetable is being reviewed. This will include increasing the proportion of classes held on Thursdays and, most importantly, Fridays. Saturday mornings may also be used more intensively for teaching.

Third, and somewhat into the future, there is a tentative plan to improve the parking capacity of Northfields Avenue.

The decision to build the multi-storey parking station is a major one. The cost will be close to $3 million. Toward this the University is prepared to make a grant of $500,000. The rest will need to be raised by increasing the parking fees for all regular users of the campus.

The cost of each additional car parking space is very much greater than the average cost of providing the present spaces. The effect will inevitably be to raise the lowest cost of a parking permit in 1991 to about $2 a week, with a fee of about $4 a week for the present category 1 parking.

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Coal Board commissions research into health issue

Mr Alf Hewitt, right, Director of Mining Environment at the Joint Coal Board, presented Professor Lewis Schmidt, Head of the Department of Civil and Mining Engineering, and Professor Raghu Singh, Professor of Mining Engineering, with a cheque for $40,000 — the second installment of a $100,000 grant to investigate the extraction of dust in long wall mining. The issue is of considerable importance to mining health and safety. At the left of the picture are Dr Najat Aziz and Dr Ernest Baafi who will supervise the project.
New Head for Planning and Marketing

PLANNING and Marketing Branch has a new Head. He is David Fuller, BEd (Econs/Geog), Riverina CAE; MA (Applied Linguistics), Lancaster, UK. His other other qualifications include a Certificate of Teaching (NSW Dept Ed); a Certificate of T.E.S.L., Massey, NZ; and a Diploma of Administrative Management, Inst. Admin Man., UK.

His professional and research interests have embraced such subjects as teaching English for specifiable purposes; active learning; management and evaluation of educational operations; and enterprise in education.

David comes to Wollongong from the Queensland University of Technology, where he was Head of Foundation Programs.

Before that his work included freelance consulting in management of language teaching operations, and four years as Regional Project Director, Malaysia (Centre for British Teachers).

Parking on campus continued from page 1

The possible introduction of a $10 a week permit for a premium guaranteed space is also being considered.

These figures are given to provide an early impression of the situation likely to prevail in 1991 and they are, therefore, very tentative.

The building of the new park can only be seen as a partial solution. Other innovative ideas are eagerly sought and should be addressed to either Tony Clapham or me for transmission to the Parking Policy Committee. It has to be understood that the University of Wollongong, unlike most other post-1960 universities, has never received any specific funding for parking, and therefore new parking facilities must be self-funding.

We are now having to face up to the problems faced by many of our city centre colleagues for a generation. Listed below are details of the parking charges adopted by a selection of other institutions.

University of Melbourne
Senior staff only $190 p.a.
Royal Melbourne Hospital Staff $520 p.a.
Newcastle University No charge yet
University of NSW Reserved for very senior staff only
$208 p.a.
Staff $100 p.a.
Students - after hours only $25 p.a.
Macquarie University First come basis $25 p.a.
Adelaide University
Staff - first come basis $156 p.a.
Students - after hours only $36 p.a.

Within the City of Wollongong rates of more than $7 a week are commonplace. This applies for example to the Council employees. Employees of the IMB have no reserved parking but many use the Kenny Street park at a cost of $12.50 a week or approximately $575 in a working year.

The article is written to keep you informed on an issue that is important to all of us. Later in the year further articles will be published to inform you of new developments in relation to parking.

One final word, if you get a fine or if you are asked to move your car, please do not take it out on the campus Security Staff. They are endeavouring to enforce the regulations by which we are all bound, and which, given our circumstances, are an unfortunate but unavoidable necessity.

Please remember also that many of the vehicular regulations enforced by our Security Staff are specifically aimed at maintaining high levels of safety on campus. This applies particularly to the speed limits and to the no-parking restrictions on access roads which would be needed to facilitate the rapid entry of emergency vehicles.

Management in keynote finance conference

TONY NAUGHTON of the Department of Management was in Bangkok earlier this month to play a key role in the Second Annual Pacific-Basin Finance Conference. He delivered a paper (co-authored by Professor Lowe) on Corporate Strategy and Capital Structure.

The paper is a refined version of another presented by Lowe and Naughton in Australia, the United States and the United Kingdom. In terms of development of finance theory it breaks major new ground by proposing and finding evidence for corporate strategy as a major determinant of capital structure - one of the major frontiers of finance theory.

Tony, in addition to presenting the paper, also chaired the keynote session of the conference and doubtless afterwards sampled some of the delights of Bangkok.
It's a material world

FOR THE THIRD consecutive year the Department of Materials Engineering is presenting its course of lectures on materials for senior school pupils (Years 10, 11 and 12) and their teachers. According to Professor Bill Plumbridge, Head of Materials Engineering, the strategy is clear cut and simple.

Basically, we acknowledge the all-pervasiveness of materials and its appearance in the HSC syllabi of subjects such as physics, chemistry, industrial arts and engineering science. We then take components from these subjects and develop them to the level of current knowledge and application. With an emphasis on quality visual aids, demonstrations and hands-on where possible, our objective is to increase the level of awareness and interest in a field vital to Australia and a career with excellent prospects.

With such intriguing lecture titles as Inside Materials, Materials under Stress and Failure Investigation - the Materials Detective, it is not surprising that we are able to maintain attendances throughout the four week (eight lecture) program. Our undergraduate intake increased considerably this year which I believe was attributable to this program and our scholarship awards.

School teachers are particularly appreciative of the course, since it enhances their skills, especially in new areas such as polymers and ceramics. We hope at some time to establish a certificate course in materials which will become a recognised further-qualification for teachers.

Mr Bob Scott, a teacher at Bulli High School and vice-president of the Illawarra Branch of the Institute of Industrial Arts, writes:

The Institute members and the engineering science students from throughout the Illawarra high schools would like to take this opportunity to thank the University of Wollongong and, in particular, Professor Bill Plumbridge and the Materials Engineering Department, for presenting such a worthwhile program. Such programs serve to reinforce the knowledge gained at school as well as to challenge and extend our students. Teachers find the lectures very interesting and help keep them up to date on current trends in this field.

'We thank all concerned once again and hope that such programs can continue to be supported in the future.'

Research grants received

Dr M. Magdy, Electrical and Computer Engineering, from the Australian Electricity Supply Industry Research Board
Project A new approach to adaptively tune a PSS for generators

Associate Professor T.S. Ng from the Australian Electricity Supply Industry Research Board
Project Develop a knowledge acquisition system for expert system construction

Professor W. Plumbridge, Department of Materials Engineering, from the Australian Electricity Supply Industry Research Board
Project Fatigue creep-interaction in low alloy steels

Dr A. Basu, Department of Materials Engineering, from the Australian Electricity Supply Industry Research Board
Project Prestressing overhead conductors

Dr V. A. Cosbell, Department of Electrical and Computer Engineering, from the Australian Electricity Supply Industry Research Board
Project Harmonic behaviour of power system loads

Professor C. Ewan, Faculty of Health and Behavioural Sciences, Dr T. Bryant, Department of Geography, Professor D. Calvert, Department of Public Health and Nutrition, from the Department of Community Services and Health
Project Workshop on potential health effects of climate change

Centre for Work and Labour Market Studies, from the Bureau of Immigration Research
Project Labour market experience of recent female migrants

Dr R.J. Whelan, Department of Biology, from Roslyn Muston and Associates
Project Identification of the pollinator of the endangered Illawarra Greenhood Orchid

Professor S. Castles, Centre for Multicultural Studies, from the Bureau of Immigration Research
Project Immigration, ethnic conflicts and social cohesion
The Congress will bring together key practitioners and researchers to discuss strategies and new processes for improving individual, group and organisational performance. These new processes are viewed as basic requirements for the management of change, diversity and discontinuity that are factors of organisational life for the next century.

Dr Jabri’s paper uses cases from the field of R & D Management to demonstrate the potential of network analysis as an intervention tool for the management of change. Network analysis is found especially useful for diagnosing formal organisational arrangements, for identifying coalitions, and for analysing intergroup relations.

Dr Jabri will present a second paper with Felicity McGregor entitled Managing Organisational Change: An Action Research Case Study. The paper is based on a case study of the University of Wollongong Library which Felicity presented in 1988 in partial fulfilment of the requirements of her MBA degree in the Department of Management. As one of the key ‘change agents’ in the Library, Felicity has been instrumental in managing the change process.

The Congress, which has attracted participants worldwide, will be opened by the Federal Minister of Education, John Dawkins.

**Visiting Lecturer in International Relations**

Professor Dirk Ballendorf is on campus this month to lecture students undertaking the Masters program in International Relations.

Professor Ballendorf is from the University of Guam's Micronesia Area Research Centre. He was educated at Pennsylvania State College, Howard University and at Harvard, and in 1985 he was a Fulbright Visiting Fellow in Micronesian History at Macquarie University.

While in Wollongong, Professor Ballendorf will be investigating possible future staff and student exchanges with the University of Guam.

**The multifunction polis**

Hilary Winchester was concerned, ahead of today’s debate

THE DEBATE surrounding the multifunction polis all seems so very recent. And yet as far back as 1988 one of our own academic staff, Dr Hilary Winchester of the Department of Geography, together with Brian S. Chalkley, a geographer, from Devon, wrote a study on the proposed Japanese-Australian futuristic international complex for Australia. The article (first received by its publisher in 1988 and in its final form in August 1989), has only recently surfaced in Urban Studies, Vol. 27, No. 2, 1990, pp 273-282.

The joint authors express reservations about the project. While admitting that their survey might be considered ‘pessimistic and unduly alarmist’, they say:

‘At present the MFP represents a large-scale project, but one which could easily become a showpiece of polarised development. A possible scenario is the formulation of an economic and ethnic enclave living and working in ideal conditions, but deliberately segregated from areas of low-cost housing provided for the support workforce. The elderly, with the exception of a few wealthy migrants, would be under-represented. Disadvantaged groups, such as lone mothers with children, would be priced out of the market. The down and outs and the marginal would not be considered, although some would congregate in the open spaces designed for prestige use. The groups of society most in need of the potential benefits from new technology could be effectively excluded from this international “yuppie city”.... Indeed, a principal challenge for the prestige MFP will be to ensure that it brings benefits not only to the international elite but also to the local population who live and work there.’
The Friends' Annual General Meeting

THE FRIENDS of the University held their Annual General Meeting on May 18. The following is the Chairman of the Board's annual report to members. As this was compiled in March for circulation with the agenda, it omits any reference to an important event which recently took place: the launch of the book *Italians in the Illawarra* (reported fully in last week's *Campus News*). This will be formally reported in the 1991 Chairman's report.

**Chairman's Report**

BEFORE reviewing the activities of the Friends during the second half of 1989 and the early part of 1990, I would first like to say how delighted I was to be invited to take up the Chairmanship of the Friends' Board in June last year. I would also like to extend a very warm 'thank you' to Professor Peter Rousch for his Chairmanship of the Board prior to May 1989 and to add that his contribution to the work of the Friends during his period of office is very much appreciated by both his colleagues on the Board of Directors and the other members of the Friends' organisation.

In June 1989 a new Executive Officer, Juliet Richardson, joined the Friends' office and this, together with the move from Northfields Avenue to the Administration Building in March 1989, signalled the beginning of a new era for the Friends. In addition, at the last Annual General Meeting in early June, some important changes to the structure of the Friends' organisation were ratified, the most significant of these being the reduction of the four previous standing committees to two: the Community Involvement Committee and the Graduates Group.

The Community Involvement Committee continues to be involved in a number of important projects. Donations of some $8,000 in total have been made towards the Ethel Hayton Memorial Fellowship in Religious, Spiritual and Contemplative Studies. The ABC has been approached regarding the possibility of its assistance in establishing a high-profile series of lectures within the framework of the Fellowship, which will add to its prestige both nationally and internationally. In 1989 the Ethel Hayton Trophy was awarded to the University's Aboriginal Education Unit for its contribution to the community during the bicentennial year. The Lawrence Hargrave Sculpture on the theme of flight has been placed on the knoll at the foot of Mt Keira and development applications are currently with the Wollongong City Council for the sculpture to be illuminated at night and for the construction of a viewing layby off Robsons Road. The official 'opening' will be held as soon as possible so that the many sponsors can be formally thanked for their contribution. I would like to thank Alderman Frank Arkell, MP, for his contribution and support as Chairman of the Community Involvement Committee.

The Chopin Society, which is part of the Community Involvement Committee, has been active during 1989. A Chopin recital was held on University Open Day in August and a further concert, Chopin in the Mall, was held in Wollongong City Mall in December. The guest artist was Mr Maciej Pawela, a well-known Polish pianist who lives in Sydney, and he was joined by Miss Ambre Lyn Hammond, a young and very talented pianist from the Southern Highlands. Funds were raised to cover the costs of this event. It is hoped that the second national Chopin competition will be held in Wollongong in 1991. My thanks go to Mrs Kathleen O'Sullivan for her contribution as Chairman of the Chopin Society.

The Graduates Group has continued to make a very valuable contribution to the University's contact with its graduates, especially via the Graduates Gazette. The Chairman of the Graduates Group, Michael Arrighi, must be thanked for his efforts and enthusiasm. It is a credit to the work of the Graduates Group over the past few years that the University now acknowledges this area to be a priority in 1990. The development of the University's alumni operation at a national and international level has now become part of the work of the Friends' Executive Officer. A part-time Executive Officer for the Friends is being sought to enable work on the Friends' activities to continue.

In November 1989 the Board of Directors agreed upon a mission statement for the Friends which reads as follows:

'To create and enhance, through the Friends' unique access to both the University of Wollongong and the local community, understanding, pride, enthusiasm and support for the role and achievements of the University'.

Subsequently a comprehensive list of objectives, strategies and actions for the Friends has been drawn up by the Board members. This document is available for any members of the Friends to peruse and is intended to remain flexible. Projects are being instigated according to the financial and staff resources available to the Friends.

I would like to mention the enormous contribution made by the senior citizen volunteer workers who, under the guidance of Gwen and Eddy Deighton, prepare *Campus News* for mailing each week and the *Gazette* each quarter. They also assist with other mailings on an ad hoc basis, and their support and efforts are very greatly appreciated.

I would also like to mention that Muriel Murada, who was Secretary to the Friends' organisation for over three years, left the University in February 1990. Muriel is well known to many of the Friends' members and is greatly missed by them and by her colleagues. We wish her well and thank her for all her hard work on behalf of the Friends.

Finally, may I thank all the hardworking Committee members and my colleagues on the Friends' Board of Directors for their support and assistance. Without this help, which is given freely by members of the community, the Friends' organisation would be able to achieve very little.

Professor Lauchlan Chipman
Chairman of the Board
20 March 1990
Laboratory safety

Radioactivity - all you wanted to know in one easy lesson

Friday July 6, 10.30 am to noon, in the Staff Training Room

The seminar will be conducted by David Woods who has considerable experience and is currently the Deputy Director of the Australian Nuclear Science and Technology Organisation's (ANSTO) training.

The talk outlines such topics as the current radiation protection philosophy, units of measure and control of internal and external hazards.

If you are interested in attending this talk please contact the Centre on ext. 3946.

Telephone techniques

Monday July 2, 8 am to noon, in the Staff Training Room
RSVP Friday June 22

This half-day course concentrates on friendly and efficient telephone service covering such aspects as:
- Knowing your equipment
- Answering machines
- Listening skills
- Dealing with angry customers
- Leaving and taking messages
- Transferring calls
- Terminating calls with courtesy

The course is being conducted by Jenny Livingstone, an experienced consultant who specialises in telephone technique training courses.

Reference will be made to the new system PBAX that should be operating in the near future.

For further information please contact the Centre for Staff Development ext. 3946.

The Library

Library loans to academic staff

BOOKS issued to academic staff since Friday June 1 are not due back until November 8.

Why don’t you renew material borrowed before June and take advantage of the long loan period? Any you do not wish to renew should be returned by Friday June 29, which is the due date for books issued before June.

You are reminded that books on extended loan will be recalled if another borrower places a hold on the book.

Academic staff may also borrow material from the audiovisual collection and the periodicals collection, other than those included in the current periodicals display.

These are available for a shorter loan period than are books.

Research Funds

The sources of research funds given below are available to members of academic staff.

Further information, including application forms, may be obtained from Lyndal Manton (ext. 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Postgraduate Studies.

Wool Research and Development Council (Australian Wool Corporation)

Grants for Production Research

Preliminary submissions are being called for in the area of wool production research. There is a new system of project assessment and for further detail contact the Office of Research.

The University closing date is July 20.

APEX Foundation Research into Mental Retardation Ltd

Research Grants

The Foundation is inviting applications in any discipline concerned with the causes, diagnosis, prevention or treatment of intellectual disability and allied conditions. Grants will be in the vicinity of $20,000 to $25,000.

The University closing date is July 20.

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The University closing date is July 20.

Studentships

Three undergraduate studentships are on offer to the value of $1,000. Students must be preparing a thesis relating to intellectual disability as part of their studies.

The University closing date is July 20.

Public Health Research and Development Committee

Fellowships and Scholarships

PHRDC is offering fellowships and scholarships for training in public health research.

Fellowships are in the range of $23,414 to $41,841 and may lead to a further degree.

Scholarships are offered at $18,877 and can be for up to three years (PhD). The University closing date is June 22.

Commonwealth AIDS Research Grants Committee

1991 AIDS Research Training Awards

Four categories of awards are on offer: Training Development Awards, Traineeships, Postdoctoral Fellowships and Postgraduate Scholarships. All of these awards are to train researchers in the field of AIDS research.

The University closing date is August 3.

Economic Development Institute
(World Bank)

Robert Mc Namara Fellowships

This fellowship is for 12 months' postgraduate research in areas of economic development. The award budget is a minimum of $25,000 up to $40,000.

The University closing date is October 12.

Previously advertised Closing date

Australian Academy of Science
International Exchanges various dates
Arthritis Foundation of Australia July 20
Worksafe Australia Research Grants July 20
Adolf Spivakovskiy Scholarship July 27
RADGAC - Intellectual Disabilities and Carers Research Grants August 3
St John's College, Cambridge, Benians Fellowship August 18
Adolf Spivakovskiy Scholarship August 31
Nuffield Foundation Fellowship August 31
CSIRO Postdoctoral Awards September 7
Corpus Christi College Visiting Fellowship September 14
Sir Harry Gibbs Prize (Forensic Science) September 28

Campus News and the recess

Because of the recess (July 2 to 16) there will be no issues of Campus News on July 3 or 10.

Copy deadline for the issue for July 17 will be noon on Monday July 9
Mt Keira Scout Camp
Golden Anniversary

Mt KEIRA Scout Camp celebrates its Golden Anniversary on November 9.

Well over half a million people have visited the camp in its 50 years and the flow of visitors is increasing. Facilities which were adequate a decade ago can’t cope with the new demands being placed on them. Because of this, Scout Camp celebrations planned for November 9 and 10 have two key objectives:

1. To recognise past achievements in traditional scouting fashion
2. To take up the challenge of funding camp upgrading as an investment in the future of scouting.

Friday, November 9: Cabaret under canvas at the Oasis Resort. Prize for the best decorated table representing the 1940s era. All friends of Scouting are invited to attend. $30 each.

Saturday, November 10: Noon to near midnight celebrations at Mt Keira Camp, 5 km from the Little Flower Church of Mt Keira Road. Special arrangements are being made for parking and transport on the final leg of the trip to the camp. Featured will be Cub and Scout displays, camp craft, Venture Valley, Baden Powell Guild display, a continuous video show, a display of Scouting and Mt Keira Camp memorabilia. Meals and refreshments will start at 8 pm, with entertainment, special acts, Scout songs past and present.

Camp Fire Program: Being arranged by Brian Gillett (84 5298 home), who is Illawarra Scouting’s Performing Arts Advisor and Korimul Gang Show Director.

Golden Anniversary Weekend Hospitality: Director Arthur Day (71 6821) is arranging billets for outside visitors and is seeking bookings from those who are willing to provide accommodation to the visitors.

Memorabilia: A register of Illawarra Scouting and Mt Keira Scout Camp memorabilia is needed for research purposes, for Golden Anniversary displays and for the celebrations publication.

Former Scouts are asked to submit their stories on Keira in written form. One item already to hand relates to fundraising to build the Cub Lair. Four finalists in the Mobil Talent Quest were invited to help the effort. Two responded and attended. One of them was Joan Sutherland, who gave her last performance in aid of the Cub Lair before going overseas.

University Home Based Care

What is Home Based Care? It is:

• a child care service available to students and staff of Wollongong University,
• the provision of supervised child care and education in a selected home setting,
• reliable caregivers who look after up to five children (including their own) from birth to school age in their own homes.

We have child care facilities in our Home Based Care Scheme. If you need child care for the spring session, or for 1991, why not drop in at Kids’ Uni, Building 10, or call Trudy or Robyn on 27 0072, to find out more information about the service or to pick up an application form.

Child Care Services provide:
• full-time care
• regular, part-time care
• holiday care
• emergency care
• before and after school care.

Fees are means tested.

Our aim is to provide quality care and education for your child, so ACT NOW!

Courses

Australian Institute of Management

Monthly meeting
Guest speaker Mr Stephen Martin, member for Macarthur (NSW), Australian Labor Party
Wednesday June 20 at Cleo’s, 16 Burelli Street, Wollongong,
7.30 am breakfast ($12), 8 to 8.45 am address and discussion.

Course for new supervisors
June 27 and 27, 9 am to 5 pm
Cost: $250
A two-day course for between ten and 20 new supervisors has been organised by the Australian Institute of Management. It is designed for anyone who has recently been, or expects to be appointed to, a first line management position, or anyone who finds difficulty in getting objectives achieved through others.

Further information from Mrs Jenny Hamilton, Assistant Branch Secretary, tel. (042)27 0075, between 9.45 am and 2.45 pm, Monday to Thursday.

Women's Issues Group

The next meeting of WIG will be held at 7.30 pm on Tuesday June 26 in the Board Room of the Union Building

Program

Old fashioned feminism
Speaker Dr Winifred Mitchell
Refreshments and a door prize

How I became a student of the bagpipes!
Speaker Ms Miranda Baker

All Welcome

Arrangements for the meeting made with the assistance of The Friends of the University

Enquiries to Moira Bowman, tel. 84 3741
The Wallabies had their final training session in Wollongong before defeating France in the first Ricoh Test at Sydney Football Stadium (June 9).

Higher School Certificate Review Program

Monday to Friday July 9 to 13
Building 35, rooms G19 and G45

THE PROGRAM is being offered for those students sitting for the Higher School Certificate this year.

Lecturers for each subject offered in the program have been selected from teachers suggested by Department of Education subject consultants and are either consultants or teachers in their specialised fields.

Each subject has been timetabled for one session of three and a half hours and the cost of a session is $12. A registration fee of $10 will be charged for administrative costs.

As part of the program a Study Skills Workshop, *Work smarter – not harder*, conducted by Dr Keith McPherson, will be offered to Year 11 and Year 12 students from 9 am to 3.30 pm on Saturday July 14 at a cost of $40. A one and a half hour session on *How to write an exam essay* will be held on Tuesday July 10 from 5.15 to 6.45 pm.

Although the program is principally designed for Year 12 students, all students are welcome to attend.

Program

- **Monday July 9**
  - English 2 Unit; English 2 Unit General; Physics

- **Tuesday July 10**
  - Maths 2 Unit; Chemistry; How to write an exam essay

- **Wednesday July 11**
  - Maths 3 Unit; Geography

- **Thursday July 12**
  - Economics; Computing studies

- **Friday July 13**
  - Biology; Engineering science; Modern history

- **Saturday July 14**
  - Study skills workshop

Further information from Margaret Prendergast or Val Porter, tel. (042) 27 0076.

Advertisements

**FOR SALE**
Baby goods - cot, mattress, walker, back pack, change table. Used by only one very socialised baby. As new condition. Tel. 28 9558 or ext. 3492.

**FOR SALE (with relief)**
Car seat, series 3 safe-n-sound, $85; natty potty chair, $15. Both as new condition. Tel. Miranda on ext. 3380 or call at 19.1007.

**FOR SALE**
Acoustic guitar with pickup under bridge, soft case. $200. Tel. Wendy 94 2671.

Display cabinets
Display cabinets made to your specifications, using your choice of materials. Suitable for the display of geological and biological specimens. Tel. 84 9275 for quotation.

To let
Cottage, Parish Avenue, Mt Pleasant. Five minutes from the University, near bushland and park. Two bedrooms, one study/bedroom, furnished. From July or August for one year. $180 a week. Tel. Nigel Mackay ext. 3740 or 85 5621.

Abstract: In addition to being technologically significant, the energies and transition intensities of f-f transitions of rare earth ions in solids provide interesting challenges to theoretical models.

In recent years extensions to the interaction Hamiltonian have been necessary to explain such effects as electron correlation and anisotropic interactions with the local environment.

Seminars

**Department of Physics**
**Thursday June 28 at 12.30 pm in Physics lecture theatre (18.118):** Dr M.F. Reid, Department of Physics, University of Hong Kong, *Theoretical models in rare earth spectroscopy*