A negotiating team representing the University and Newcastle College of Advanced Education has recommended broad principles for the amalgamation of the University and the College.

The Councils of the two institutions will now decide whether they support the negotiating team's proposals.

The chief officers of the University and the CAE succeeded in achieving common ground during three weekly meetings, the last taking place on June 30.

The officers who took part in the meetings were:

Professor D.W. George, Vice-Chancellor of the University, Professor K.R. Dutton, Vice-Principal of the University, Professor M.P. Carter, Deputy Chairman of Senate of the University, Dr. E. Richardson, Principal of the CAE, Dr. D. Huxley, Assistant Principal of the CAE, and Mr. R. Hodgins, Acting Head of the School of Paramedical and Community Welfare Studies at the CAE.

Should amalgamation be forced upon the two institutions, they recommended that it proceed according to their "statement of agreement".

The officers said that the Councils of both institutions were on record as being opposed to enforced amalgamation. The Federal Government had made it clear, however, that, with effect from 1983, funding was dependent upon amalgamation taking place.

The State Government had indicated the necessity of constructive discussions occurring in order to ascertain what measure of agreement might be achieved.

The discussions among senior officers had taken place on the basis that the primary goal must be the development of a broadly-based institution directed to the pursuit of the highest standards of excellence of scholarship, research, teaching and professional preparation at all levels, across a widening range of disciplines and vocations.

Details of the proposed bases for the amalgamation of the University and the College of Advanced Education have been distributed throughout the University.

Professor Don George said at the staff meeting on June 29 that the University's representatives on the negotiating team thought that the only form of amalgamation which would allow common ground to be achieved was along the line of the "Wollongong" model, which was the basis on which the amalgamation of Wollongong University and Wollongong Institute of Education was going ahead.

Professor George said the University believed it important to retain the name of the University of Newcastle, with a Council composition which mirrored the Councils of other universities. He explained that the Minister for Education presently appointed five members of the Council compared with about 15 members of the College Council.

Room for evolution and interaction in respect of academic activities at the University and the College would not be excluded by the agreement. There would also be a willingness to look seriously at rationalisation of administrative and support services.

Subject to the recommendations from the negotiating team going to the Councils of the University and the College, it might be possible to advise Macquarie Street and Canberra that agreement had been reached by the end of July. Reaching a consensus should break the logjam preventing the release of recurrent funds for University and Advanced Education purposes in 1983.

Professor George expressed the hope that the University community would be supportive of the discussions on amalgamation. He had informed Commonwealth authorities that the University was prepared to co-operate despite the limited support given by the State and the Commonwealth and although it has opposed the enforced amalgamation.

HOW TO COPE WITH COAL TRAINS P.6
Apart from showing blue movies, prostitutes (acquired from Kings Cross) are raffled or awarded as prizes and the prize is often consumed on stage in front of the audience and rooms in a nearby hotel and booked for the "lucky" winners.

For too long now this function has been allowed to continue. People within the University either turn a blind eye to it or others are simply not aware of what actually happens. It cannot be dismissed as "the boys getting together and having a bit to fun". This sort of "fun" does nothing to bring credit or credibility to the University of Newcastle and we should all be ashamed that it is allowed to occur.

What is also quite sad is that certain members of academic staff play a role in legitimising this event by helping to sell tickets or officially blessing it by opening the "gala" event. I would be quite interested to know what organiser of "Kultcha Nite" can write in defence of their activities.

Will I cannot publicly put my name to this letter in fear of harassment and intimidation from the followers of "Kultcha Nite". This fear is not imagined as two years ago a female who spoke out against this event was harassed. I feel it is enough to write this letter to bring to the attention of members of the University community the nature of this insidious happening.

I am sure that most people would join with me in a demand that "Kultcha Nite" be completely banned from the premises of the University of Newcastle. That is if you care.

EDITOR'S NOTE: The writer of this letter was one of 29 signatories to a letter written to the Vice-Chancellor on the matter. Consequently, the Vice-Principal informed the President of the Engineering Fraternity that any entertainment arranged on campus must not incite unlawful activities.

In view of the statement near the end of the letter, University NEWS has departed from its usual practice of refusing requests that letter writers' names be withheld. This should not be taken to imply University NEWS' acceptance of the claims relating to harassment.

Academic Plan considered

At its meeting on June 18 the Council had before it the Academic Plan which had been transmitted to it by Senate with the advice that Senate had adopted it.

Council noted that the adoption of the Plan was the culmination of a considerable period of discussions concerned with the handling of the changed circumstances in which the University found itself, particularly the reduced financial resources available. Council, was informed that, while the great majority of Senate had supported the adoption of the Plan, within the University there were disagreements of varying strengths with various aspects of the Plan.

While recognising that every aspect of any Academic Plan adopted would receive universal support, Council, nevertheless, did not move from its earlier view that a Plan was needed. It wished, however, to consider any alternative proposals dealing with the problems facing the University with which the University wished to place before it, as well as those supported by Senate.

Delegates of the University have been invited to make submissions to Council on the Academic Plan adopted by Senate and suggestions are to be lodged with The Secretary no later than July 31.

New Drama Production

The Drama Department's second major production will be Woyzeck, by Georg Buchner, in a new translation by Michael Ewans and Rick Billinghurst, with original music by Jenifer Ewans, from the Music Department of the WAC.

Woyzeck, although written in 1836, was not performed until 1913. Since then it has become widely acknowledged as a masterpiece and is the foundation for several different developments in the modern theatre.

The production will run in the Drama Studio from Wednesday, July 21 to Saturday, July 23, and from Wednesday, July 28 until Saturday, July 31, at 8.15 pm with a matinee at 5 pm on Sunday, July 24. Admission is free, but admission is by ticket only. Tickets are to be purchased from the Drama Department, because of limited seating. The Drama Department's telephone number is 605 705.
Off to Cambridge

Professor G.J. Jameson, of the Department of Chemical Engineering, will be attending a NATO Advanced Studies Institute at Christ's College, Cambridge, from July 5 to 16. There will be a total of 45 invited participants. As a principal speaker, Professor Jameson's attendance is being sponsored by the organisers.

The Institute will be concerned with the fundamentals of Flotation — a process for the separation of small amounts of a particular mineral from the large amounts of sand, clay or other substances with which it is found in nature. The surface properties of the mineral are controlled by the addition of surface-active materials to a suspension of the finely-crushed ore in water. Bubbles of air are then introduced, which float the "values" to the surface in the form of a froth, while the unwanted "gangue" stays in the water.

Flotation was pioneered in Australia in the early years of this century. Because of the many complex problems it poses, progress in the field has owed as much to empirical art as to predictive science, but Professor Jameson believes that in the last 10 years there have been significant advances in the inter-related fields of electrochemistry, surface chemistry and fluid dynamics which underpin flotation phenomena, and rational explanations are beginning to emerge.

For Professor Jameson, the Institute will be a return to familiar ground. He was a Research Scholar at Christ's College while studying for his Ph.D. at Cambridge University from 1960 until 1963.

"My scholarship was founded in late medieval times and has lasted through the Reformations, the English revolution and the industrial revolution in essentially the same form", he said. "At a time when standards of higher education are under threat, it is reassuring to be reminded of the resilience of our institutions".

NEW COUNCIL

Following the elections for the Council of the University, Professor Ron MacDonald, Mr. Pran Chopra, Mr. Trevor Askie and Ms. Jessie Dyce are the new members of the Council. The elections generated a great deal of interest and it was necessary to conduct a ballot in every category of Council membership.

In the ballot to elect Professorial members, Professor Geoffrey Kellerman and Professor MacDonald were elected.

In the ballot to decide who would fill the two vacancies for Academic Staff other than Professors, Dr. David Dockrill and Mr. Pran Chopra were the successful candidates.

The successful candidates in the ballot for the two Non-Academic positions on the Council were Mr. Trevor Askie and Mr. Maurice Edmonds.

Eighteen candidates stood for the six Convocation elected members of the Council. The ballot determined that the following should fill these positions: The Very Rev. Robert Beal, Mr. Warren Derkenne, Emeritus Professor Clif Ellyett, Mrs. Elizabeth Morrison, Ms. Jessie Dyce and Mr. Brian Relf.

Another election was held to fill three vacancies in another category of membership of the Council, viz members elected by members of the Council themselves. This election, conducted on July 2, resulted in the re-election for a further term of Mr. Alec Forsythe, Mr. John Risby and Dr. Peter Hendry.
Inaugural Lecture

Professor Sanson-Fisher

"It is very clear now what Behavioural Science can contribute. It gives some reasons as to why people acquire disease, why they go or don't go to the doctor, what happens at the doctor's and why the visit to the doctor's often causes problems", Professor Robert Sanson-Fisher said in the Medicine Lecture Theatre.

Professor Sanson-Fisher spoke to a good crowd of Convocation members, students and staff about Behavioural Science in Relation to Medicine and why it took many years for the discipline to become recognised. He was delivering his Convocation Inaugural Lecture.

"Social and behavioural events have an important impact in determining disease. We know, for example, that as Japanese shift to the United States they change their traditional habits and acquire the illness-pattern of the U.S. People have argued that a lot of the cancers have environmental aspects. Other work suggests that significant life events, like the loss of your partner or your husband, can impact on both your illness and your psychological disturbance. Whether or not patients utilise medical services is also dependent upon attitudes and behaviour. You may believe that there is no point going to the doctor because the symptoms may turn out to be something life-threatening, cancer of the bowel, for example.

When you get to the doctor, what you do may determine how the doctor responds to you. For example, there is a large number of patients who become more assertive with their doctor. They ask questions, demanding explanations of what the doctor is telling them. What happens, the doctor too, may act in an aggressive way. What he does determines the adequacy of the diagnosis he gives. About 70 per cent of the diagnoses that he will make will be based on interaction with him.

There is also some evidence that the orientation and the training of the care-giver to whom you will determine the sort of treatment that you get.

"If you go to some parts of England, the probability of having a tonsillectomy or some other operation is much greater than other parts. So the ideology of the staff may determine to some degree what sort of treatment you get. "What Behavioural Science is, or how we should justify it in Medicine rarely occurs to me. However, I ask how it is that it has never been there before? I think the reason goes back to the eighteenth century, when the most common causes of death were infectious diseases such as diphtheria and whooping cough. Then Pasteur discovered that micro-organisms could be destroyed by boiling and he was able to cure anthrax, a fatal disease in sheep, by means of immunisation.

"This led to the beginning of the germ-theory of medicine and to what we can call today the bio-engineering approach to medicine. It has led to a dichotomy between the mind and the body and it's assumed that the body is the most important component. So it leads to doctors saying things like, 'Oh, the hemorrhoids in Room 310 are doing well'. The person that the hemorrhoids are in are not so important.

"The whole person and his relationship with the environment tends to be ignored. The responsibility for health care has shifted from the patient to the physician, the important person because he can intervene and prevent illness. There has been a tremendous growth in technology and high powered technology to cope with infectious diseases. Over the last 20 years, this bio-engineering approach has been increasingly attacked. People have questioned the belief held by the public and some members of the medical profession that antibiotics and high-powered technology have stopped death rates associated with infectious diseases. They have pointed out that, in fact, death rates were already down before the introduction of antibiotics. As examples, take scarlet fever and diphtheria. It has been suggested that the reason for the downward trend was not the bio-engineering approach but better sanitation, better food, better water supply, etc.

"Perhaps, the most fundamental argument against the bio-engineering approach is the change in the causes of death. Research indicates that a lot of the factors associated with the diseases which are the main causes of death in Australia are behavioural. Some of these factors are things like family and, as usual, cannot be changed. However, others, such as smoking, physical activity, type A behaviour and so on, are behaviours which may be changed. Type A behaviour covers the typical aggressive, striving individual and it is argued that those people are more likely to have heart attacks. These arguments have led to a subtle, but real, shift in the orientation that some people in medicine now take, a shift from single cause to multi-factorial cause and to trying to find multiple variables which may account for disease patterns.

I believe that Behavioural Science, Behavioural Medicine, has an important contribution to make to both medical research and education. While the discipline of Behavioural Medicine is frustrating in that it spans a wide spectrum, there are two areas in which we can make good and efficient contributions over the next two decades. The first is health promotion and defining those factors which influence the quality of a patient's life. Both of these endeavours will involve us in the development of reliable and valid measures so that we can sensitively, and in an acceptable way, monitor changes in our patient's life. Without such data it would be impossible to effectively validate the impact of any intervention we might implement.

"At the same time we need to develop procedures which will allow the modification of patients' and care-givers' behaviours, and I stress the care-givers. It has to be done, not in isolation, in a collaborative way, and by collaboration I mean not only within the Faculty but we also need collaboration and collaboration and collaboration Departments in the University and with people from the community. Fortunately, these efforts to attend to the whole person, to his interaction with his environment and where needed, the modification of behaviour and attitudes, is compatible with the stated aims of medicine, and, in particular, the Newcastle Medical School. I can really think of no better place to carry on that work than here in Newcastle", Professor Sanson-Fisher concluded.

Professor Sanson-Fisher was introduced by the Warden of Convocation (Mr. Philip Miller) and thanked by the Vice-Chancellor (Professor Don George) for his lecture.
Researchers at the University of Newcastle have won the University a place in a national silicon chip design programme.

Their complex design for part of the layout of a new integrated circuit has been accepted by the CSIRO's VLSI Design Laboratory in Adelaide.

Dr. Kewal Saluja and Mr. Leon Byles, of the Department of Electrical and Computer Engineering, assembled a complex design called a "pipeline multiplier", which covers five square mms and consists of 40,100 transistors.

They are two of scores of computer scientists at universities and industries who accepted the VLSI Design Laboratory's invitation to participate in an Australian chip development program.

The VLSI Design Laboratory is a Commonwealth Government activity, which received $1.5 million funding from the CSIRO.

The CSIRO set up the VLSI research group to concentrate on designing Australian silicon chips. The laboratory is not involved in establishing facilities for manufacturing chips.

Dr. Saluja is a Lecturer in circuit design techniques and Mr. Byles is an honours student. Dr. Saluja attended the first VLSI Instructors' Workshop at the University of Adelaide last February. The prime object of the workshop was to make available newly-acquired knowledge in the VLSI (very large-scale integrated) design field.

Dr. Saluja was convinced that the Department of Electrical and Computer Engineering was capable of becoming involved in silicon chip design and when the CSIRO invited bids from possible participants in the national programme he and Mr. Byles decided to have a try.

Since last March they have done extensive work. They decided to design a "pipeline multiplier" for use in very fast computing systems and availed themselves of several software tools supplied by the VLSI Laboratory and the University's Computing Centre. After completing work on the new design, Dr. Saluja sent it to the VLSI Laboratory.

Dr. Saluja says that the design will now be incorporated, with others, in the overall design for Australia's first multi-project chip. The masks for the the chip will be prepared in the United States. The chip itself will be fabricated either in the United States or Australia. When the chip is returned to Dr. Saluja and Mr. Byles in August extensive tests will be carried out on it.

Dr. Saluja says that apart from proving that they can design a chip the significance of the work for the Department of Electrical and Computer Engineering is that students can be taught how to employ the new techniques in their laboratory work and, at a future time, in their professional activities. This knowledge will be useful to staff and students in other disciplines like Mathematics, Medicine, computer science and other branches of Engineering etc.

UNION NEWS

The Union Dinner and unruly behaviour in the Bar in the Union were among the matters discussed at the last meeting of the Board of Management of the Union.

Arrangements for the Union Dinner, to be held in the Union on September 17, are proceeding satisfactorily. Grace Brothers would make a travel award at the Dinner.

The Board was told that unruly behaviour in the Bar had on a number of occasions interfered with the enjoyment of patrons. It was agreed that this was a serious matter and that action should be taken to prevent further instances.
How to cope with Coal Trains?

Described once by the late Professor James Auchmuty as a man whose standards are high, his firmness of vision invaluable and his resilience superb, Professor Eric Clarence Parker, Professor of Architecture, retired on July 5, 1982, after a career in which he became very involved in two major tasks.

From 1957, when he came to Newcastle as the first full-time Lecturer in Architecture at Newcastle University College, until 1965, and from 1974 until his retirement, he has supervised University architectural education in Newcastle.

The break from this work was a nine-year secondment as office-in-charge of planning both the re-location of the University from Tighes Hill to Shortland and the physical development of the new University.

Referring to the latter part of this task, Professor Auchmuty said: "... he had the difficult task of ensuring the maintenance of high architectural and environmental standards on a site which could have easily become a disastrous hotch-potch of conflicting styles and purposes."

One of my colleagues at the New South Wales University of Technology was going on sabbatical leave and he asked me to lecture for him at Newcastle University College one day a week", Professor Parker said in an interview with the APEW. "At the end of each rectic visit I was entertained by the Architecture students in the Scott Street bar of Stan Brain's (now demolished) and listened sympathetically to claims that they were neglected by their parent institution at Kensington."

The first full-time member of the architectural staff of the Newcastle College worked from the back seat of his Rover P3 car until the Warden, the late Doctor Ralph Basden, was able to find him an office in the College at Tighes Hill. The School of Architecture was originally in the Darling Building, but moved to the Clegg Building and, finally, to the McLarty Building before making the move to Shortland in late 1970.

By the time the Independent University of Newcastle had been established, with Professor Frederick Romberg as Foundation Professor of Architecture, Eric Parker (then an Associate Professor) had seen student numbers and teaching staff increase very considerably. Gordon Appleby, John Haldane, Mervyn Edwards and Don Morris were the first selected to join the staff at Tighes Hill. During this period a Newcastle student brought distinction on the small School of Architecture by winning the University of New South Wales Medal. This former student was architecture, Brian Suters, who, since graduation, has continued to give support to the School and employment to many of its graduates.

Professor Parker remembers that a hot issue in the sixties was whether responsibility for architectural education should be returned the Newcastle Technical College. However, members of the profession expressed their opposition, and, at a senior staff meeting, Professor Alan Tweedie moved, and Professor Auchmuty seconded, a motion recommending the establishment of a one-department Faculty of Architecture at Shortland.

"The Tech", as well as some in the profession, were reluctant to see us leave Tighes Hill and for a short time the tension created for us paralleled that which exists now because of the proposal to amalgamate the University and the NCAE."

On the planning of the new University, Professor Parker recalled a day in 1964 when Professor Phillip Baxter, Vice-Chancellor of the University of New South Wales, Professor Auchmuty and he made an inspection of the virgin site. Despite the extreme heat that day and the hordes of mosquitoes, they were very impressed by what they saw — "the vision splendid and a portent of a golden future."

The University of New South Wales, concerned because the Tighes Hill campus had become overcrowded, appointed Laurie and Heath, a Sydney firm of architects and planners, as Master Planners of the new campus. The University, Professor Parker emphasised, decided that no accommodation was needed regardless of whether the University College became an autonomous institution. The University arranged the construction of the McMullin, Geology and Physics buildings. Professor Parker saw the coal trains which used the old Wallsend railway line as the only disadvantage of the new University site. "The trains from Wallsend often failed to surmount the hill where the Community Child Child Care Centre now stands and sand had to be placed to give the wheels traction. The clutter was dreadful."

Later, he proposed that the railway line be joined up to the network of private and State owned lines, that fast trains with rubber wheels be provided to bring people to the University and that a station be built east of the pres-
Campus Discrimination

Practices in universities result in the same patterns of discrimination as those we find in government bureaucracies. Women, for example, are often hired for positions which, unlike positions given to men, do not afford opportunities for fast progress. Moreover, female teachers are less likely to be given tenure and women in the administrative area do not progress to the most senior positions. The administration and the faculty are usually chosen from the same pool, as if confirming a self-fulfilling prophecy.

Brian Flanagan, Director of the Centre for Employment Policy Research, recently said, "If we don't change the way we do things, we'll have the same problems in 10 or 20 years' time."

Alison Ziller, Director of Equal Opportunity in Public Employment, speaking at the meeting in the University's Drama Theatre sponsored by the Staff Association and the Association of Women Employees of the University, said the aim of the program is to introduce fair employment practices, which ultimately will be to everybody's advantage.

Mr. Don Morris (now Planner), said that the Royal Australian Institute of Architects extended accreditation for the University of New South Wales. Don Morris was one of the first group of architects to design landscape and buildings in the University of New South Wales. Don Morris said that he received the news that the Royal Australian Institute of Architects had extended accreditation for the University of New South Wales.

Shortly before Professor Parker retired he received the news that the Royal Australian Institute of Architects had extended accreditation for the University of New South Wales. Don Morris was one of the first group of architects to design landscape and buildings in the University of New South Wales. Don Morris said that he received the news that the Royal Australian Institute of Architects had extended accreditation for the University of New South Wales.
Architecture and the Tent

Mr. Philip Drew

The tent is a fascinating, if undervalued, building tradition. Most Australians have experienced the "tradition" on their holidays, or during military service, without thinking overwhelmingly about its past.

In earlier times, tents served mankind in a variety of guises as great shade roofs suspended over Roman amphitheatres, on the Crusades, as symbols of medieval chivalry during tournaments, as magnificent portable palaces for European kings and princes, not to mention the beautiful Bedouin tents of the Near East and North Africa.

During the Gold Rush last century, something like half the population of Australia appears to have lived in tents. Furthermore, the Australian verandah has been explained as a permanent construction, growing out of the British practice of establishing tent stations in India.

The study of tent types, their origin and development, has led to Mr. Philip Drew, Lecturer in Architecture, being appointed a Visiting Associate Professor at Washington University, St. Louis, Wisconsion, for the duration of the Fall '82 and Spring '83 semesters.

Mr. Drew's interest in the history of the tent began in 1972 when he was writing the work of Frei Otto, the German pioneer of the modern tent, whose ideas culminated in the Munich and Jeddah stadia at a time when it was generally thought that tensile building was a relatively recent innovation.

Mr. Drew set out to discover the early history, development, and cultural significance of the various tent types which preceded modern developments.

While he is at Washington University, Mr. Drew will offer courses on the Architecture of the Tent, New Directions in Contemporary Architecture, Style in Architecture, and a design studio on Textile Buildings.

Philip Drew's reputation outside Australia was furthered by his book on The Third Generation, Frei Otto, Tensile Architecture, Two Towers, and this year the publication of a study dealing with the architecture of the Japanese architect Arata Isozaki. The invitation to visit Washington University was made at the suggestion of the noted art historian, Professor Udo Kultmann.

Scholarships

The Australian Computer Research Board and the Radio Research Board are offering postgraduate scholarships leading to the award of Ph.Ds at Australian universities.

Both kinds of scholarship are worth $10,000 per annum (plus certain expenses) and is expected to run for three years, subject to the successful progress of the scholars.

Applicants must be under 25 years old, have Australian citizenship or be permanently resident in Australia, and have, or expect to gain, a first class honours degree or equivalent in an appropriate discipline.

Persons interested in applying for the scholarships should obtain application forms and a statement of the conditions from the Secretary, P.O. Box 225, Dickson, ACT, 2600.

Applications for the Computer Research scholarship close on August 20.

Applications for the Radio Research scholarship close on September 17.

Queen Elizabeth II Fellow

Dr. Nick Wormald, an ex-student of the University, has returned to the campus to work with the Department of Mathematics as a Queen Elizabeth II Fellow. He is on leave from Louisiana State University, Baton Rouge, where he is an Assistant Professor of Mathematics, and the University of Newcastle he is spending until the end of next year collaborating with mathematicians and doing private research in connection with Combinatorics and Graph Theory. He worked with Professor Bob Robinson until he resigned to take up an appointment in the United States. As the picture shows Dr. Wormald is accompanied in Newcastle by his wife, Anne, and his three-year-old son Samuel. He holds a B.Sc. with Honours degree in the Australian National University and a Ph.D. (1978) in the University of Newcastle. Before taking up his position at the Louisiana State University he had a postdoctoral fellowship at the University of Waterloo, Canada.
Japanese Scholarship

Mr. Peter Cummins, Japanese QIIA student, has been awarded a scholarship by the Japanese Government for him to study at Kumamoto University (our sister university in Japan) for one year.

Mr. Cummins was recommended by Dr. K. Ono, Head of the Japanese Section, for the scholarship award because of his high performance in Japanese, very co-operative attitude in class and extra-curricular activities.

Dr. Ono says that he was extremely delighted at the outcome. This was the second consecutive year that a student had been awarded the most valuable scholarship. He also thanked Professor Fukuda, his partner from Kumamoto University, for supporting his recommendations to the Japanese Government.

The scholarship includes return air fares, living allowance of $A492.00 monthly, plus some settlement allowances.

Peter is expected to leave Newcastle on October 4.

Radio Busking

The most exciting and innovative weekend of radio in Newcastle for many years will be presented by 2NUR-FM on Saturday and Sunday, July 24 and 25.

Known as the Radio Busking Weekend, the event will feature some of Newcastle's top bands, musicians and performers 'live-to-air' from the 2NUR-FM studios at the University.

All kinds of music will be featured — from the larger folk and jazz bands, such as Rum Culls, Chief O'Neill's Favourites, the Maryville Jazz Band and the Roaring Horns, to individual singer/guitarists, duos, organists, pianists and many more.

Lecture Theatre V07 will be turned into a large music studio for the weekend to accommodate the large groups and it will have video, audio and intercom links to the station. As listeners will be invited to visit the station during the weekend, a large crowd is expected.

The aim of the weekend is to raise $20,000 to help keep 2NUR-FM on the air.

The station is on air for more than 19 hours a day presenting a wide range of educational, talk and music programming. All programs are presented by volunteers and some 150 people are involved in the preparation of programs each week.

The station receives only basic funding from the University. Most of the money needed for continuing operations must be earned from listeners and business supporters.

2NUR-FM has brought a new dimension to radio in Newcastle with programs such as the History of Newcastle, Anzaas Congress coverage, local Council broadcasts, radio drama, literature and educational programs and musical offerings, which include classics, jazz, folk, country, blues, brass and big bands, musicals, opera and alternative rock.

The station hopes that people will recognise the value of this service and become subscribers. The cost is only $20 per year, for which a monthly program guide is provided with full details of the station's offerings. This subscription is tax deductible.

Please send your subscription to 2NUR-FM, c/- The University of Newcastle.

Art Exhibition

arranged by VON BERTOUCH GALLERIES to assist The Friends of The University

in the FOYER of the GREAT HALL on FRIDAY, JULY 16

by MATTHEW PERCEVAL

at 7.45 pm

Followed by Wine and Cheese

Open SATURDAY, SUNDAY and MONDAY — Hours: 10 am to 5 pm.

Devonshire Teas Available

For further information please telephone The Friends of the University, President: Mr. K. Gordon, telephone 63 2729 or The Secretary: Mrs. L. George, telephone 52 4175.
Vicki Schofield

Volleyball player Vicki Schofield, a Mathematics student, has been selected to play in the Australian Universities' Women's team to tour New Zealand from August 10 to 28. This is a glowing tribute, which recognises a dedicated volleyballer, who gives of her best at all times. We trust Vicki will have a marvellous tour and that she will return with the spoils of victory.

Award Approved

A meeting of Newcastle Division of UASA on June 22 gave final, unanimous approval to the Draft University of Newcastle Academic Staff (State) Award.

The meeting authorised the Executive to enter into negotiations with the University Administration with a view to the implementation of the Award.

The Executive was asked to report back to a further general meeting by August 31 before the draft Award, as amended in negotiation, is signed.

The Honorary Secretary of the Newcastle Division of UASA (Dr. Don Wright) said the Draft Award had been delivered to the University Administration and negotiations were expected to begin almost immediately.

Hunter Orchestra

A public meeting to launch the Hunter Orchestra will be held in Newcastle City Hall on Monday, July 12 beginning at 7.30 pm. The meeting will be chaired by the Lord Mayor, Alderman Joy Cummings. Special guest speaker will be one of Australia's leading singers, Lauris Elms.

The Chairman of the Steering Committee for the Orchestra (Mr. Athol Cowley) said the purposes of the meeting were to put into perspective the work behind the establishment of the Orchestra and to inform the public of the progress to date. Details of how the Orchestra would function would also be disseminated, Mr. Cowley said.

The meeting would also launch an appeal for further funds and elect the first Board of Directors. People at the meeting who are enrolled as subscribers would be eligible to vote for this board. People wishing to subscribe, would be able to do so on the night.

The annual Campus Scamper for the Commonwealth Bank Trophy will be run on Wednesday, July 28, over the Long (6.2 k/m) and Short (4 k/m) trails. The run will start at 12.30 pm and be run on No.2 Oval. Individual or team entries (three runners) may be telephoned to Jock Armstrong at Extension 469. The closing date is July 23. The Department of Army (Singleton), the RAAF (Williamtown), the Department of Correctional Services (Maitland) and local tertiary institutions as well as interested community members, have been invited to compete.

WANTED — The University Surfers are looking for two female surfers to compete in this year's Intervarsity Surfing Championships held from August 22 to 29. There are excellent prizes and entertainment offered and it promises to be the best I.V. ever.

The standard of surfing does not have to be of that good; it is thought that we need some girls to represent the University in the competition and to have a good time too. Any enquiries would be greatly appreciated. Just leave your name and details downstairs in the SRC Office.

Defence Support

The Department of Electrical and Computer Engineering has attracted two further research contracts from the Department of Defence in Canberra worth $52,600.

Assoc. Professor Tony Cantoni has been awarded $40,100 over the next two years for a project in connection with adaptive signal processing. Personnel, equipment, travel and maintenance are encompassed by the grant.

Professor Cantoni explained that he and Dr. Lal Godara, a research assistant in the Department of Electrical and Computer Engineering, were applying the grant to processing the output of a large number of antennae with the aim of rejecting interference and enhancing the quality of designed signals. He said that the work was relevant to the local area in that TV and FM radio reception were effected by transmission from Sydney, whose frequencies are encompassed by the large number of Newcastle stations.

He and his colleagues had constructed a pilot system to process those signals and using the Department of Defence's support it was hoped to improve the system so that it could be utilised by people working in several fields, including communications and mineral prospecting.

Assoc. Professor A. Goodwin and Dr. R. Evans have received a grant of $15,500 from the Department of Defence for research into ways of estimating the flight parameters of aircraft. The aim of the research was to develop methods of processing measurements so that performance models for aircraft could be obtained, Dr. Evans said.
Advertisements

FOR SALE


DRESSED DUCKS — live young ducks, 19 weeks old, excellent table birds or ornamental. Will weigh at least 6-7 lbs when dressed. 7 each. Also bantam rooster to give away. Please telephone Extension 572 or 94 9244 after hours.

WANTED

MAH JONG INSTRUCTION — preferably before Adrian Ashman can obtain same. Can anyone help? Please telephone Ross Telfer at Extension 215 (Education).

ACCOMMODATION

Visiting Lecturer in Medicine wishes to rent a three bedroom house for a period of four to six months from September 1. If you can assist please telephone Susan Flynn at 20411, Extension 141.

Worker on Kiln

Pottery partner needed to share garage space and help build wood kiln in rural area close to University. Please telephone Nick at Extension 611.

Medical Students

The Staff cuppa tea room in the Engineering Building has a wide selection of out-of-date Time, Newsweek, Modern Motor, Punch, etc. magazines for immediate disposal. If you intend to graduate soon and establish as a GP, these are a MUST for your Waiting Room. Enquiries in person to Room EA020, between 1 and 2 pm daily.

TO LET

Two/three bedroom unit with separate dining, lounge, kitchen and entry hall. Situated in quiet block, central, opposite Newcastle High School and two blocks from Hunter Street West. $120 per week. If interested please telephone 57 4132.

Spacious accommodation available at Kotara from mid September for a three to six month lease. Large rooms, well appointed for summer living inside and out. Lovely garden, suit garden lover, all rockery and no moving. Rent negotiable, close to bus and Kotara station. Please telephone Win Thompson at 57 2166.

LOST

On July 2 prescription sun glasses in a bright yellow case. Please telephone Extension 745.

Geographers

The Newcastle Geographical Society will hold its second organisational meeting on July 14 in Room R108 in the Geography Building.

The Steering Committee will present its report on aims and objectives and elections for society officers will be held.

After the formal meeting, the Chairman of the Hunter Development Board, (Mr. Alex Young) will speak on the Geographical Society and Hunter Development (talk postponed from last meeting).

All interested persons are invited to attend.

Mumps

THERE HAS BEEN AN INCREASE in the number of cases of MUMPS amongst Newcastle University students in the last month, in particular those students living at Edwards Hall.

We advise that if you have not had either a mumps vaccination or a mumps infection, to contact the University Health Service at Extension 763, or your local doctor, for information regarding vaccination and complications from mumps infection.

DIARY OF EVENTS

THURSDAY, JULY 8

Room 6 7 pm FILM: BEING THERE (narrated and un· worldy box caught up in very involved circumstances.)

FRIDAY, JULY 9

Room Department of Mathematics Seminar

Guest Speaker: Dr. T. M. Mills (Bendigo College of Advanced Education). Topic: LAGRANGE INTERPOLATION: DIVERGENCE.

Talk by Professor David Johnson, of the University of Sydney on THE FALKLAND ISLANDS WAR and THE LAW. Staff House. (Arranged by the Australian Institute of International Affairs.)

SUNDAY, JULY 11

8 pm Newcastle Film Society presents: ARMACORD (Pollini, Italy, 1974).

MONDAY, JULY 12

3 pm Union Courtyard — Drums, Jazz Ballet, and Fire Eating Demonstrations.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4 pm</td>
<td>ANGLICAN EUCHARIST, Union Basement.</td>
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<tr>
<td>1 pm</td>
<td>TUESDAY, JULY 13</td>
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<tr>
<td></td>
<td>FILM: BETTER ACTIVE TODAY THAN RADIOACTIVE TOMORROW (Film demon-</td>
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<td>strates the successful opposition to a prospective nuclear power</td>
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<td>plant in West Germany.)</td>
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<tr>
<td>2.20 pm</td>
<td>2,10 pm Department of Sociology Seminar. Guest Speaker: Dr. Alan</td>
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<tr>
<td></td>
<td>Chalmers. Topic: DOES SOCIAL SCIENCE HAVE ANYTHING TO LEARN FROM</td>
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<td></td>
<td>THE PHILOSOPHY OF SCIENCE?</td>
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<td></td>
<td>Venue: Room S325.</td>
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<tr>
<td>8,30 pm</td>
<td>8,30 pm Department of Philosophy Seminar. Guest Speaker: Norton</td>
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<td></td>
<td>Jacob, Topic: THE PRIMITIVE FOUNDATIONS OF METAPHYSICAL ARGUMENT.</td>
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<td></td>
<td>Venue: 106 Bruce Street, Cooks Hill. (Mr. G. Doran’s residence.)</td>
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<tr>
<td>9 am</td>
<td>WEDNESDAY, JULY 14</td>
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<tr>
<td>8.15 am</td>
<td>8 pm Department of Mechanical Engineering Seminar. Guest Speaker:</td>
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<td>Dr. B. Cook. Topic: DIGITAL CONTROL OF INDUCTION MOTORS. Venue: EAGO1.</td>
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<tr>
<td>6 pm</td>
<td>6 pm Department of Mathematics Seminar. Guest Speaker: Professor</td>
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<td></td>
<td>Lloyd Fosdick, from the Department of Computer Science at the</td>
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<tr>
<td>12.30 pm</td>
<td>TUESDAY, JULY 20</td>
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<td></td>
<td>Department of Philosophy Seminar. Guest Speaker: Dr. Ian Fairbairn.</td>
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<tr>
<td>8 pm</td>
<td>SUNDAY, JULY 18</td>
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<td></td>
<td>Newcastle Film Society presents: JULES ET JIM (Truffaut, France,</td>
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<td></td>
<td>1962.)</td>
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<tr>
<td>4 pm</td>
<td>MONDAY, JULY 19</td>
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<td>ANGLICAN EUCHARIST, Union Basement.</td>
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<tr>
<td>18,30 pm</td>
<td>TUESDAY, JULY 20</td>
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<td></td>
<td>Department of Philosophy Seminar. Guest Speaker: David Stove (Tra-</td>
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<td></td>
<td>ditional and Modern Philosophy Department, University of Sydney.)</td>
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<td></td>
<td>FILM: WITCHES AND FAGGOTS — DYKES AND POOFETERS. (This film docu-</td>
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<td>ments the social and individual oppression of homosexuality in both</td>
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<td>an historical and present day context.)</td>
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<tr>
<td>8,15 am</td>
<td>WEDNESDAY, JULY 21</td>
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<td></td>
<td>Department of Mechanical Engineering Seminar. Guest Speaker: Mr. A.</td>
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<td></td>
<td>Harrison, Engineer. Bulk Materials Handling, CSIRO, Lindfield. Top-</td>
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<td>ic: BELT CONVEYING. Venue: EAGO1.</td>
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<tr>
<td>7 pm</td>
<td>Room 8</td>
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<td>FILM: FLESH GORDON.</td>
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<td></td>
<td>(A sendup of Flash Gordon.)</td>
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<tr>
<td>1 pm</td>
<td>FRIDAY, JULY 23</td>
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<td></td>
<td>POSTGRADUATE MEETING - APSUN. Discussion and social. Venue: Godfre-</td>
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<td>y Tanner Room, Union. Free Refreshments provided.</td>
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<tr>
<td>10 am</td>
<td>JULY 24 and 25</td>
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<td>WEEKEND NON-RESIDENTIAL WORKSHOP in TECHNICAL STAGECRAFT of the</td>
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<td>Playhouse Theatre, Hunter Street, Newcastle. Conducted by Aarne Ne-</td>
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<td>me and members of the Hunter Valley Theatre Company staff. If any</td>
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<td>persons are interested please contact the Department of Community</td>
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<td></td>
<td>Programmes.</td>
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