Inaugural Lecturer

"The number of those who would wish to interfere in science is mounting rapidly as the impact of science-induced transformations are increasingly widely felt," Professor Clifford Hooker, the new Vice-Chancellor of the University at the great Convocation Inaugural Lecture, said in the Drama Theatre.

Inaugural Lecture...

Professor Hooker told a good crowd of staff and Convocation members, when he delivered his Convocation Inaugural Lecture, that the industrialist would like to intervene on behalf of his favourite policies, the ethical fundamentalist against all research he held anathema, the militarist in free-market proposition.

"While some of the shaping of science is deplorable, much of it is valuable and, in the light of the role and impact of science, justified.

"We who do this leave us? How to avoid the plunge into the dark abyss of an authoritarian philosophy of science and an authoritarian society to produce it? We are left trying to walk along tight-ropes, juggling opposing forces which we feel the urgent necessity of resolving but which cannot be resolved.

"The first tight-rope concerns the generation of our knowledge of ourselves. We just do not know very much yet about the design of human institutions; about the new circumstances into which science is helping to catapult us; about the real dynamics of science; about the deeper nature of human intelligence and its relation to human values, its dependence on human institutional arrangements; about the choice and change of values themselves; or about how to assess and respond to the historical movements now in motion.

"Learning about these things is an urgent necessity; it also requires commitment to the further development of science and to further experiments which will modify our past ways of proceeding. We need to have the enquiry over, the answers are not finally settled.

"But this is impossible because the process of enquiry is itself part of the dilemma, the knowledge required itself part of the problem. So we need to tread our way delicately and warily around a developing spiral, each new revolution enlarging our understanding of what we are about and at the same time enlarging our scientific capacity for further transformations. Above all, we need to understand and control this spiralling process. Understanding and designing humane spiral developments is a crucial task in which, ultimately, many responsible people, philosophers among them, must become involved.

"The second tight-rope is institutional. We urgently need institutions for relating science to society so that the tension between the genuine scientific need for autonomy and free criticism on the one hand and the genuine need for society to exercise rational and moral responsibility for its own condition and future on the other hand are definitively reconciled.

"We have no hope of effecting a definitive reconciliation, the best we humans can do is to create a system of institutional checks and balances which prevents the worst abuses of scientific arrogance on the one side and authoritarianism of whatever source and colour on the other, yet allows the increasingly intense interaction between science and society that is now an historical necessity.

"Our universities are one institution in the mix. Whatever their difficulties and crankinesses, and whatever their other legitimate goals, society should think very carefully before it allows them to be emasculated because they form the strongest of its autonomy-preserving institutions.

"On the other side, new techniques such as technology assessment theory are beginning to provide new government institutions, such as the Australian Science and Technology Council and the Department of Science and the Environment, with the first tools for assessing in a more democratically accessible way what society's interests might legitimately be and where it is sensible to refrain from intervention.

Whether such tools will become institutionalised in an effective way remains to be seen.

"On every side problems emerge as these issues are tackled. How is scientific data in fact used by government? How ought it to be used? What is good science policy? What of international versus regional roles for science, flexibility of development versus credibility of research effort, etc.?

"I have neither the time, nor the arrogance, to propose a complete set of science/society institutions here, but of this I am certain: developing a workable set of institutions for this crucial area is one of the truly urgent necessities for this generation. It is a task in which all responsible people should be involved, philosophers having a particular responsibility because of their care of some of the basic cultural ideas involved (e.g. those of freedom, humanity)."

"Professor Hooker, who spoke on The Accomplishment and Arrogance of Science, was introduced by the Warden of Convocation (Mr. Phillip Miller) and thanked for his lecture by the Vice-Chancellor (Professor Don George)."
Letters to Editor

It was of great disappointment to me to learn of the University Council's decision to increase the rent at Edwards Hall from $45 to $51 per week for 1981.

Of greater concern to me was the Council's virtual neglect of student opinion. The authoritative and paternalistic way with which the decision was reached at the meeting failed to even consider and circulate the petitions put forward by Edwards Hall's residents and the wider student body.

The Council may argue that there are a large number of students at the Hall who are in favour of the increase. Obviously the misleading framework with which these students were presented by their "Messiah" warden seemed to justify to them that the rise was warranted. But one look at Edwards Hall's carpark shows that the matters of financing rent and necessities such as B.M.W.s are taken care of by some generous benefactor and not by an inadequate EAS cheque.

But what about the students who are already finding it difficult to afford the costs? And what about the ones who will be arriving next year to face the new higher costs? To me these are the students the Council should be concerning themselves with. As there is an acute housing shortage in Newcastle which is here to stay and the fact the Edwards Hall is the only live-in college, the future of the Hall seems quite secure and obviously the University does not have to worry about it. Hence they are free to charge whatever rent they wish as they know the Hall will always be in demand.

At least from this experience I have gained an insight into what it means to be against as SRC President for 1981: A University Council who appears to disregard student opinion even when they are openly confronted by it.

MARGARET KAVARAGH, President Elect - 1981.

I wish to comment on the decision taken by the Newcastle division of the UASNSW at its meeting on Thursday, October 22 to send a report on the Industrial Commission of New South Wales for an award covering our conditions of employment. In doing so I am taking the view that since the press was admitted to the meeting and later published a report on it I am committing no breach of confidentiality.

Given the excellent conditions enjoyed and still being enjoyed by the academic staff of this University it seems to me to be self-destructive madness to seek to replace those by those in a industrial award. To take such action is to invite an outside body to dictate to us how we shall go about our normal working activities and is therefore an abdication of our role as an autonomous academic body.

In seeking to understand my colleagues' action I can only assume that they take for granted that any industrial award they obtain will enshrine their actual existing conditions. There is no justification for this belief and, taking into account the suspicion with which the general public regards the university community's behaviour, it is almost certain that an award would seek to reduce the gap between our traditional employment conditions and those of the average employee in order to make the position more generally acceptable.

The passing of the resolution will further damage the good will that has existed in this University between its governing body and its academic staff. It guarantees indeed that any award that is granted will be implemented legally and that the carton changed temporarily to lose sight of the long-term aspects of the University's future.

Put more bluntly, they were for a time persuaded to place their own security, believing it to be at risk, before the preservation of this University as an autonomous academic institution. This is an example of a conflict situation having been unnecessarily created by people irrevocably committed to the belief that such conflict is the basis of all social relationships, a view which absolutely denies any significance to other concepts such as goodwill, cooperation or consensus.

We shall all be losers if this ideological campaign achieves its objectives, but the greatest sufferer will be the University, deprived of the support of those on whom it most depends.

I appeal to my colleagues to resist the present hysteria which threatens to overwhelm us and to consider carefully the ultimate consequences of their recent decision.

JOHN BACH, Department of History.

On Thursday, October 23, Professor Cliff Hooker gave his inaugural lecture, organised by Convocation. There were probably sixty people there to hear some very challenging reflections on science and human institutions. While applauding the work and enthusiasm of Convocation, I would like to suggest that inaugural lectures should be handled in a very different fashion. An inaugural lecture is an important academic and community event. It is an opportunity for the academic community to welcome a new member to its ranks. It is an opportunity for the community at large - staff, students and the public - to hear about the program of action of the new man. It is one of the ways in which 'academic leadership' can be demonstrated, however briefly. Inaugural lectures have been and still are a vital tradition in many universities. It should be so here.

It therefore seems to me that the University itself should take such lectures under its wing and help to promote them solidly by sending an invitation to every member of the University and hold them at a time calculated to gain the widest possible audience, either by suspending teaching for an hour during the day or holding them in the evening when the general community can more easily attend. Perhaps even the kind of ceremony associated with graduation could be tried to emphasise the importance of the occasion.

In the climate of concern about the University and planning for the future, an attention to the intellectual concerns of the community would both demonstrate our commitment and reassurance to the new Professor that he was among like-minded souls.

PETER HEMPENSTALL, Department of History.

STAFF Appointments

Mrs. K.M. Beckett, Office Assistant/Typist, Department of Community Programmes.

Miss S. Suljić, Stenographer (Secretary), Faculty of Medicine.

Mr. J.W. Williamson, Analyst/Programmer, Secretary's Division.

Mr. A. Donker, Station Manager, University Radio Station 2NUR-FM.

Resignation

Mrs. A.M. Smith, Adult Library Assistant, Auchmuty Library.
Senator’s Visit

Senator Gareth Evans will be the guest speaker at a luncheon in the Southern Cross Lounge in the Union on November 10. Senator Evans will give an address entitled Constitutional Reform: Where, When and How?

Senator Evans, an ALP Senator from Victoria, holds a B.A. and an LLB with honours from the University of Melbourne and a M.A. from Oxford University. Before he became a Senator in 1978 he was Senior Lecturer in Constitutional Law at the University of Melbourne.

Senator Evans served as a member of the Commonwealth Parliamentary Delegation to the Constitutional Convention in 1978 and acted as Convenor for the Campaign for Constitutional Change in 1978. He is the author of Labor and the Constitution, 1978-1978,

Overseas experience

Nine third year medical students from the University are currently making the most of overseas elective study terms, having organised overseas projects in medical education, research and clinical practice. Five of these students will be away for one term of eight to ten weeks, while the others four have combined two elective terms into continuous projects running for five to six months. Of the longer projects, Doug Routley and Greg Wilkins will be working at Harvard University in the areas of respiratory medicine, cardiology and oncology, with a brief visit to McMaster University in Canada to evaluate a curriculum very similar to Newcastle’s. In Australia, they range from one who will be attached to the Faculty of Medicine of the University of Newcastle, to another who will look at aspects of medical history.

Students are encouraged to consider all types of projects provided they have something to do with medicine and the diversity of proposals for this first third year elective in 1980 is impressive. For those projects which will be undertaken within Australia, they range from one who is studying Italian so that she can then assess the health needs of that community in Newcastle to another who will be attached to the Community Health Centre Lifestyle programme in Mona Vale, Sydney, to another who will look at aspects of medical history.

Because the Newcastle course is so different to the traditional curriculum, students were encouraged to travel as far and wide as possible to experience alternative attitudes and approaches to problems. Students have to pay for all travel expenses themselves and even though accommodation costs are often minimised by the host institutions and hospitals this is obviously a major limiting factor for many. However, Dr. Madsen is confident that with the recent availability of a number of Bank schemes providing loans repayable after graduation and recount of experiences from students who do go overseas, in future years more students will avail themselves of this unique opportunity to enrich their undergraduate training.

Dr. Barry Madsen, Chairman of the Elective Studies Sub-Committee, said that most medical schools provide time in their undergraduate curricula for electives and reviewed some years ago the philosophy, objectives and administration of these programmes suggested they should also be a part of the local Newcastle course.

Elective experiences provide opportunities for students to develop skills of independent learning important for practitioners who have to cope with the changing face of medicine for many years after graduation), for development of problem solving skills, pursuit of excellence, the opportunity to delve into areas not covered in the course, appreciation of the development of knowledge, curiosity and many other noble aims. Consequently the Faculty has provided for a number of elective experiences in the curriculum, with the full term electives in third and fourth year being the main ones.

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Morton Rawlin who is to undertake a local laboratory-based elective, and he is working with a medical biochemist in the Faculty, Dr. Peter Dunkley, on the effect of noradrenaline uptake and release on cyclic AMP phosphorylated protein in synapses.
COUNCIL NEWS

The Vice-Chancellor told Council on October 17 that about half the cost of supporting a Chair of Occupational Medicine in the Faculty of Medicine would have to come from outside the University. Several industries had promised amounts which totalled about $76,000. Some of this finance would be spread over three years.

Assoc. Professor W.G. McMinn was appointed Acting Head of the Department of History for six months from December, 1980, during the absence of Assoc. Professor J.P.S. Bach on an outside studies programme.

A new scale of fees and a budget for 1981 for Edwards Hall was approved after considerable discussion. The basic residential fee for undergraduates will be $51 a term-week. (The fee this year is $45 a week). At the recommended level of fees, the Hall was expected to have an income of $409,062, whilst expenditure was estimated at $411,194, leaving a small deficit of $2,132 for the year.

The Harri Jones Memorial Prize is to be awarded to an Australian poet who has not yet attained his 36th birthday whose work is judged to be outstanding. Mr. Jones was a Senior Lecturer in the Department of English and would have attained his 36th birthday whose work is judged to be outstanding.

The Newcastle University Students' Association said that if its component of the general services charge were increased by $4.50 for full-time students and by $3.50 for part-time students the association would have a budget surplus of $12,250 by February, 1982. This would restore NUSA to a stable financial position and give the necessary scope for new initiatives.

The extension will house an additional squash court, an enlarged shop and, above the shop, the lounge, there will be access to the lounge off the balcony which overlooks Squash Courts Nos. 5 and 6. All costs associated with this project are to be met by the Sports Union.

Having previously deferred action on the agreement of conditions of employment for academic staff of the University which had been proposed by the University Academic Staff Association of New South Wales, Council was asked to support a motion to authorize the Vice-Chancellor to sign the agreement on behalf of the University. The motion was not approved by the Council.

Council was told that the Interim Reports of the two Working Groups of the Council on the future arrangements with respect to appointments at the Deputy Vice-Chancellor/ Vice-Principal level had reached the Standing Committee. The Council agreed that the appointment of the new Deputy Vice-Chancellor would be considered by the Allocations Committee. The Council agreed that the Vice-Chancellor write to all Professors in the University informing them of the Council's decision and inviting them to indicate their interest in appointment as Acting Vice-Principal.

Following requests from the Newcastle University Students' Association and the Sports Union, Council agreed to increase the general services charge from January 1, 1981. The new charge will be $120.50 for full-time students and $115.50 for part-time students. The increase is $113.50 for full-time students and $109.50 for part-time students.

Seeking permission to increase its charge from $37.25 to $39.75, the Sports Union stated that it wished to arrange for all students to be given cover by the New South Wales Government's Sports Insurance Scheme, to be implemented in 1981.

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In addition, an entrance charge of $10 is paid by students who wish to use the University Union for the first time.

The new general services charge will be distributed as follows:

- University Union $56.
- Sports Union $39.75.
- Students' Association $23.50.
- Part-time students, $18.50.
- Recreation Organisation $1.25.

The Council had before it a report from the Chancellor on the deliberations of a Committee set up to consider the question of filling the position of Vice-Principal and Deputy Vice-Chancellor to replace Professor Alan Tweddle, who will retire on December 31. Council endorsed the Committee's proposal that an Acting Vice-Principal be appointed from January 1, 1981 until December 31, 1981, pending a determination of future arrangements with respect to appointments at the Deputy Vice-Chancellor/Vice-Principal level. Council agreed that the appointment be a part-time one and that the need for any supplementary teaching assistance in the Acting Vice-Principal's Department during the period of his appointment be considered by the Allocations Committee. The Council agreed that the Vice-Chancellor write to all Professors in the University informing them of the Council's intention and inviting them to indicate their interest in appointment as Acting Vice-Principal.

Following a recommendation from Senate, Council decided to rename the Department of Civil Engineering the Department of Civil Engineering and Surveying. The Faculty of Engineering had argued that Newcastle was the only place in Australia in which a degree in Surveying was offered by a Department, the name of which did not include the word Surveying.

Council approved the establishment of a number of new prizes. Digital Prizes in Computer Science II, Computer Science III and Statistics and Computing have been donated by Digital Equipment Australia Pty. Ltd. Dr. Neville Clouten, who recently resigned as Senior Lecturer in Architecture to take up a position in the United States, donated a prize, to be known as the Neville Clouten Architectural Synthesis Prize, for a design project in one of the five Architecture subjects of the B. Arch. (Hons.) or B. Arch. (Arch.) degree courses.

Council was told that, in accordance with earlier resolutions, agreement had been reached with the Sports Union on the location of a non-licensed lounge in an extension to the Sports Pavilion. The extension will house an additional squash court, an enlarged shop and, above the shop, the lounge, which will be accessed to the lounge off the balcony which overlooks Squash Courts Nos. 5 and 6. All costs associated with this project are to be met by the Sports Union.
Graphs are used in Electronics for identifying and counting graph structures, and for investigating the efficiency of power series operations on a given set of graphs. In applications of graphs to the sciences, a graph can be a chemical molecule with points representing atoms and lines representing bonds. In Physics, graphs may be used to model circuit designs, with points representing circuit components and lines representing connections between them. In Electronics, graphs are used to model circuit designs, with points representing circuit components and lines representing connections between them. In Chemistry, a graph represents a chemical molecule, with points standing for atoms and lines representing bonds. In Physics, a graph may represent a pattern of interactions between particles. In Electronics, graphs are used to model circuit designs. In some applications, the number of graphs on a given set of points can be found by generating examples of all the relevant graph structures, but there are techniques of an algebraic nature which often serve to find the numbers much more quickly.

In a previous project which the ARGC supported for 1975-1980, further theoretical work on algebraic enumeration of graphs was carried out. In conjunction with this the algorithms for cases of special interest were run by computer to find the numbers of graphs on large numbers of points. The new project for 1981 will concentrate on better ways to carry out graph counting algorithms by computer. These algorithms all rely on power series operations, which are potentially infinite sequences of coefficients to be added, multiplied and composed according to fixed rules. The investigation of how to improve computing methods for power series operations will involve both theoretical analysis and experimental work. The natural application is graph counting.

One product of the new project may be new computer routines for the efficient operations on power series used for symbolic computing software. Another would be significantly extended graph counting capabilities for scientific applications. Both sorts of benefits are world wide, and not specific to the Hunter Region.

Dr. R.D. Rose, Senior Lecturer in Biological Sciences, was the recipient of $7,400 from the Australian Research Grants Committee for a continuing project entitled Chloroplast DNA Replication in Cells and Isolated Protoplasts, which he explained in three terms: Chloroplasts are the structures in the cells of plant leaves that convert solar energy to chemical energy in the process known as photosynthesis. Chloroplasts are the ultimate determinants of plant growth as well as being the ultimate source of energy for life on earth. About 20 years ago it was observed that chloroplasts contain DNA. It was then a surprise as all genes were thought to reside on the chromosomes in the nucleus. The chloroplast genes are now known to specify certain key components of the photosynthetic process. Some plants photosynthesize more efficiently than others due to their chloroplasts and chloroplast genes. Genetic manipulation of chloroplasts offers a way of improving photosynthesis and therefore the yield of economically important plants, whether used for food, fibre or energy.

The research supported by ARGC has been directed into two main areas. First, to obtain more information about the chloroplast genes themselves, particularly how they are transmitted from one chloroplast to the next during chloroplast division, and secondly, to examine ways of introducing chloroplasts and chloroplast genes into plant cells. The initial part of the study has provided more evidence about the location of the DNA molecules in the chloroplast and using the electron microscope it has been possible to visualise active chloroplast genes. Chloroplast DNA molecules are anchored to specific chloroplast membranes in a way that facilitates their transmission to succeeding generations of chloroplasts.

It was in order to apply the above knowledge that studies were initiated to introduce chloroplasts into cells. Plant cells are encased in a hard wall and before anything as large as a chloroplast can be introduced, the wall of the cell has to be removed. The walls can be removed by enzymes to generate cells surrounded by a membrane and known as protoplasts. If a single cell can have its chloroplasts altered genetically it is possible to obtain a new plant with these characteristics. This is because regeneration of new plants from single cells has been shown for many plants, though it is proving difficult for cereals such as rice and wheat.

In our chloroplast transfer studies we use spinach leaves as a source of chloroplasts and protoplasts, as the chloroplasts in spinach have been extensively studied by plant physiologists. Our other test plant is the carrot which was the first plant used to regenerate plants from single cells. Spinach leaf protoplasts have been fused with carrot root protoplasts using a fusing agent called polyethylene glycol, which will enable study of how a spinach chloroplast operates in a foreign cell.

Much of the increased yield of plants used by man has in the past come from crossing plants of desirable type and selecting the best progeny. Plant physiologists now believe that it may be possible to use the knowledge of the cell and molecular biology of plants, to alter plants in a way not previously possible, to provide increases in plant productivity.

The studies in progress at the University besides being supported by the ARGC have been helped greatly over the last year by two Honours students, Richard Hodgson and Graeme Lindbeck with their research projects in this area and Mrs. Joan Brien supported by ARGC funds.
ARGC REPORT

The Australian Research Grants Committee has awarded a grant of $4,000 to Dr. Rodney Vaughan, of the Mathematics Faculty, to study the distribution of travel and land use in urban areas.

The aim of the project is to analyse data to confirm a theory that the seemingly complex traffic patterns can be described by simple mathematical models. To date most urban traffic models have used very complex methods which required a very large data collection effort and concentrated their attention to the city under study. The new theory claims that cities have much more in common than has been thought in the past and in planning for population growth. Planners should look at travel behaviour in cities larger than the city under examination.

Dr. Vaughan has already shown that models of the type proposed are a good description of a limited number of cities that he and his international colleagues have investigated. These models describe traffic patterns in a city by the use of three features: the spread of homes, the spread of work places and a measure of the relative closeness of a worker to his place of work. In turn these three features can be related to simple characteristics of a city such as population and shape.

A set of computer programmes has already been developed for the analysis. The project grant allows for a part-time research assistant who will transfer information from existing city traffic reports and present them in a form for computer processing. It is expected that support will be available from the ARG for a further two years past the initial year 1980.

Viewpoints wanted

Emeritus Professor C.D. Ellyett was recently elected to Council by Convocation. Stemming from this he is keen to seek facts or viewpoints which any member of the University staff or of Convocation may wish to put to him to provide background essential to forming opinions.

He is at the University for several days during most weeks and suggests that the simplest method of making contact would be by a note to him, C/- the Department of Economics. He would then telephone any contact number given and arrange an appointment.

Efficient reading

Year 10 high school students have again been offered Efficient Reading Courses by the University Counselling Service.

Two courses will begin on November 17 - one lasting from 10 am until noon and the other from 6.30 pm until 8.30 pm. The venue for the courses is Room V01 in the Mathematics Classrooms Block.

The charge is $20 per student.

Elected to Council

In the ballot conducted to elect a member of the Council, being a student of the University elected by the students of the University, the voting was as follows:

- Greg Holding 248
- Ian Chaussivert 186
- Informal 20

Mr. Holding will hold office from January 1, 1983 until December 31, 1984.
Mr. Paul Casey, an Honours student of the Psychology Department, will graduate with a Master of Arts degree at next year's graduation ceremonies. Mr. Casey is currently a Lecturer in Psychology at the Goulburn College of Advanced Education. From 1977 to 1979 he worked on a research thesis entitled "Categorisation Reaction Time and Category Structure in Semantic Memory Using Artificial Categories," supervised by Dr. R.A. Heath. At present, a paper based upon Mr. Casey's research is being reviewed by the Journal of Verbal Learning and Verbal Behaviour. The following paragraphs summarise the contribution made by Mr. Casey in this area.

The field of human information processing is partly concerned with the manner in which our knowledge is stored and the processes by which we retrieve stored information. The term "semantic memory" is used to refer to our system of receiving, retaining and transmitting information about meaning of words, concepts and classification of concepts. Much semantic memory research has been limited to reaction time (RT) experiments involving categorisation tasks, sometimes supplemented by multi-dimensional scaling (MDS) procedures. Most of the research has relied on "natural memories." Here it is assumed that all subjects possess the necessary information to decide that "A canary is a bird" and "A church is not a fish" and make decisions about other equivalent, seemingly trivial assertions. The use of natural memories, however, results in difficulty in controlling factors such as set size, word frequency, conjoint propositional frequency, recency and concreteness.

In order to attain more adequate control over the factors of set size, set structure, printed word frequency and printed conjoint propositional frequency, a set of artificial categories was developed and introduced to subjects over a period of twelve weeks. Four categories of beings on the imaginary planet VIZ were introduced to the 20 early adolescent subjects by means of stories, exercises and discussions. The consonant-vowel-consonant trigrams used as names of categories and instances were selected from within the 45-70 range on a 1-100 scale of meaningfulness. The major emphasis in the training period was on control of the verbal materials and involvement by the subjects with the materials. At the conclusion of the training period the 20 subjects were successful in performing a written recall of all the instances (48) grouped and described appropriately within their respective categories.

The major findings from Experiment I were that significantly longer categorisation RTs were required to classify instances from the hierarchical categories as compared with those from the categories with no experimenter imposed structure. No set size effect was found. Experiment II, six months later, found by means of clustering and MDS procedures that the 12 remaining subjects retained the hierarchical structures and imposed their own structures on the other two categories.

It appears that imposing one's own structure on verbal materials may facilitate organisation. Moreover, clustering and MDS procedures seem potentially useful techniques for investigating the psychological structure of knowledge and may thus aid study of the development of concepts and perhaps also be useful in the evaluation of teaching techniques.
Glenn Tippett, a Japanese IIA student, has been appointed to the Ube Academy of Foreign Languages, Japan, as an English Language Instructor.

The Cities of Newcastle and Ube have agreed to make affiliation as sister cities and the appointment has been made as part of the promotion of the sister city relationship. Glen is planning to leave Newcastle in the middle of November.

The Outside Studies Programme Regulations, introduced in April, 1979, have worked well, but certain problems of interpretation and application have been experienced.

Accordingly, the Finance and Personnel Committee accepted the Vice-Chancellor's suggestion that it would be timely to review the regulations and consider any modifications which might be thought necessary.

The Council endorsed this viewpoint and appointed a committee to review the OSP regulations, comprising Professors M.P. Carter, G.C. Curthoys, R.G. Keats and K.E. Lindgren and Mr. B.W. Relf.

Professor Carter, who is Convenor, said the sorts of matters which the Review Committee would be considering were: whether the University wished to provide for the taking of leave inside the University, the desirability of payment of one half salary in advance in the light of the possible necessity that considerable moneys be outlaid initially by the applicant and whether the University wished to facilitate the taking of leave for purposes other than sustained research or scholarship, e.g. leave for professional experience.

The Review Committee is anxious to provide the opportunity for all members of the academic staff to submit views and suggestions and hopes that any suggestions will reach it by November 18. Members of staff are invited to address their comments to Professor Carter in the Department of Sociology.

A meeting of academic staff members on October 21 voted 51 to 5 in favour of the University Academic Staff Association of New South Wales applying to the Industrial Commission of New South Wales for an award covering their conditions of employment.

The President of the Staff Association (Assoc. Professor G. Curthoys) explained the meeting and its deliberations in these terms:

For the past 18 months discussions have been held between representatives of the University Academic Staff Association and the Vice-Chancellor and his advisers on a draft agreement on conditions of employment. At the outset, the USAA agreed to the University's request not to register the agreement in the Industrial Commission.

After a number of meetings an agreement was reached between the negotiating parties and the Vice-Chancellor recommended to the Finance and Personnel Committee that the draft agreement be signed. However, the Finance and Personnel Committee decided to seek legal advice and after they received the advice the Council decided not to sign the agreement.

At the close of the meeting on October 21 a resolution congratulating the Executive for its work on the draft agreement was carried with acclamation.

Moreover, the Staff Association was asked to make known to members of the Council of the University and members of State Parliament its opposition to any amendments to the By-laws which would permit the dismissal of academic staff for reasons other than those already laid down in the By-laws.
EXAMINATIONS
IMPORTANT REMINDERS

EXAMINATIONS IN THE AUCHMUTY SPORTS CENTRE

In the forthcoming examination period the Auchmuty Sports Centre will be used for examinations.

The following information may assist you in making arrangements for any examination you will be taking in the Centre.

PARKING:
Temporary Parking space will be available on grassed areas within the vicinity of the Centre. Signs and a patrol attendant will be provided to assist students in parking.

It cannot be guaranteed that the temporary parking areas will accommodate all candidates so you are requested to allow sufficient time to use the alternative parking facilities at the Squash Courts (Six Minutes Walk to the centre) and Engineering (Six Minutes Walk to the Centre).

WALKING:
12 Minutes should be allowed to walk to the Centre from the Union/Library area.

Students travelling to the University on the Route 100 bus can walk to the Centre through the Newcastle College of Advanced Education grounds in approximately 12 to 15 Minutes if they leave the bus at the NCAE bus stop.

SPECIAL EXAMINATION ROOM

It's examination day and while travelling to University on your motor bike you have an accident - fortunately no serious injuries but you're quite shaken.

You wake on the day of your most important examination with a severe migraine?

If you are eight and a half months pregnant and sitting in one position for a three-hour paper is impossible?

If something like the above is, or turns out to be, you, then you are a candidate for the special examination room.

To make arrangements you should contact Glennie Jones or Tom Reid. Please telephone 685 616 or 685 263 as soon as possible or, if the need arises on the day, when you arrive at the University. Assistance in relation to any questions you have is also available at either the Counselling Service or the Health Service.

If during your examination you become distressed and you feel for some reason that you are not able to continue in the standard setting, you may approach the Supervisor and request consideration for transferring to the Special Facility.

Leave arrangements

The working days between the forthcoming Christmas and New Year, December 29 to 31, are granted as concessional holidays to members of General Staff not required for duty. In addition, Thursday, January 1, 1981 is a Public Holiday.

Wednesday, December 24 is a normal working day. The Vice-Chancellor intends to invite members of staff to have an end-of-year drink with him late in the afternoon.

Friday, January 2, 1981 is a normal working day. However, it is suggested that members of staff consult with their Heads of Department as to the possibility of utilising annual leave, or flextime, credits if they wish to have an uninterrupted break from December 25 to January 4.

The concessional days between Christmas and New Year are in lieu of the Newcastle Show Day, the concessional half-days before Christmas and Easter and the concession of Christmas shopping time.

If members of staff have any enquiries concerning the arrangements, it would be appreciated if they directed them to the Assistant Bursar (Personnel), Extension 328, or to the Staff Officer, Extension 213.

Kings College speaker

Professor E.J. King, an authority on Comparative Education, will visit the University on November 12 and 13.

Professor King recently retired as Professor of Education at Kings College, University of London. He taught in grammar schools between 1936 and 1947 and in the University of London Extra-Mural Studies between 1947 and 1953. Thereafter he lectured in Education at Kings College.

Professor King is visiting Australia under a Fellowship from the Commonwealth Department of Education. He will give two addresses in the Drama Theatre on November 12. Participation in Education: Recent Experience and Proposals at 4 pm, and Education and Work, a Key Relationship at 7.30 pm - and speak at a seminar in the Department of Education Staff Room on November 13 at 10.30 am.

Elections

The Faculty Board, Faculty of Engineering, elected Professor G.J. Jameson Deputy Dean of the Faculty of Engineering until December 31, 1981.

The Faculty Board, Faculty of Economics & Commerce, elected Professor M.O. Jager Dean for three years from January 1, 1981.

The Faculty Board appointed Mr. B.P. O'Shea Sub-Dean to hold office for the same period as Professor Jager.

Following Professor R.G. Tanner's resignation as Dean of the Faculty of Arts, the Faculty Board, Faculty of Arts, elected Professor J.F. Burrows, Dean of the Faculty of Arts from January 1, 1981, until December 31, 1982.

Following Professor Tanner's resignation, the Sub-Dean also submitted his resignation to take effect from December 31, 1980.

On the nomination of the Dean-elect, Dr. P.J.A. Hempenstall was re-elected Sub-Dean for the period January 1, 1981 until December 31, 1982.
SPORT

The campus Indoor Soccer grand final at the Auchmuty Sports Centre on Friday, October 17, between Edwards Hall and Chemistry. Edwards Hall men's and women's 3-1 win put Chemistry gave them a good game. Edwards Hall thus ran out worthy winners of the Commonwealth Bank Indoor Soccer Trophy for the second year in succession. Congratulations.

The Pavilion Sportsman's Bar will open at 4 pm on Friday, October 31, for a special discount sale of your liquor requirements. KB and LA cans, in two dozen cartons, will cost $10.50. KB and LA bottles, in one dozen cartons - $9.50. Christmas is nearer than you think!

Half-Court Tennis may now be played on the Basketball court (especially adapted for this recreation) beside Nos. 1 and 2 tennis courts at No. 1 Oval. Enthusiasts should contact Jock Armstrong on Extension 469 for further details.

The touring New Zealand University Squash Teams (men and women) are expected to arrive in Newcastle on Tuesday, November 25. They will be hosted by the University Squash Club during their stay. Matches have been arranged on Tuesday, November 25 and Friday, November 28, in the Squash Pavilion at 8 pm. After their stay locally, the New Zealanders are proceeding to the University of New England to attend the annual Inter-university Squash Contest.

The outcome of matches played between University and Cardiff-Boolaroo in the Newcastle District Cricket Competition:
- Firsts, University Won;
- Seconds, University Won;
- Thirds, University lost by two runs on the first innings;
- Fourthly, University Won.

University Cricket Club will hold a party at Allan Smyth's home at 4 Byron Street, Cardiff, on Saturday night, November 22, beginning at 8 pm. Members, wives and their friends are invited.

The President of the University (Christine Claydon) said the Board believed that the University's and the Staff's responsibilities for the full maintenance of the University's Squash facilities and to require them to pay a membership fee.

A chart which detailed the comparative levels of support to the University, the Sports Union, Edwards Hall and the Staff House clearly illustrated the inequality of support given by the University to the respective bodies. If there were to be an allocation of University funds for the support of student bodies, it would be equally shared by those bodies.

Ms. Claydon pointed out that the original decision to make the University totally autonomous was the University's and the Board could not accept that the price to the University was anything less than a pledge to compensate the University for payment of the Secretary Manager's salary.

The former Vice-Chancellor had made it quite clear that the funds for the building were originally provided to the University by the Government, with the requirement that the facilities would be made available to both students and members of the University staff. The Board believed, Ms. Claydon said, that the University had a continuing obligation to ensure that staff had equal right of access to the University's facilities as that enjoyed by students. The Board also believed that it had an obligation to its financial members to ensure that they were not subsidising the use of the University's facilities by un­financial persons. The Board could foresee considerable staff opposition to any proposition to restrict their usage of the University's facilities and to require them to pay a membership fee.

A chart which detailed the comparative levels of support to the University, the Sports Union, Edwards Hall and the Staff House clearly illustrated the inequality of support given by the University to the respective bodies. If there were to be an allocation of University funds for the support of student bodies, it would be equally shared by those bodies.

Ms. Claydon said the Board asked the Council to forward the $7,500 withheld from the 1980 grant to the University immediately. To increase from 1981, the annual grant to equal the salary of the Secretary Manager as at the commencement of First Term each year and to accept immediately responsibility for the full maintenance of the University Building.

Course expansion

The Bachelor of Educational Studies postgraduate degree course which the University presented in Gosford this year for the first time is to be expanded and strengthened in 1981. Enrolments for 1981 will be accepted for either the B.Ed.Stud. or the M.Ed.Stud. degree.

Both of these degree courses are designed for teachers and educational administrators who wish to explore in-depth areas of education relevant to their own professional interests.

The B.Ed.Stud. degree comprises four units of study, and the M.Ed.Stud. six units. Most candidates for both these degrees enrol on a part-time basis and undertake two units each academic year. Each unit involves two contact hours per week.

In 1980 two units of study were offered at the Central Coast Educational Resources Centre in Mann Street, Gosford. The 1981 programme will depend upon candidates' interest and staff availability, and will again be conducted at the Centre.

BEWARE - the SRC ball is coming
Professor Honoured

At its annual meeting on October 20, 1980, the Australian Academy of Technological Sciences elected Professor B. Anderson to its Fellowship. Professor Anderson, who is presently overseas, was elected to the Australian Academy of Science in 1974 and thus becomes one of the small group of Australians to have been recognised by the senior Academics in both science and technology.

Fellowship

The Education Research and Development Committee invites applications for a limited number of Advanced Research Training Fellowships commencing between July 1, 1981 and June 30, 1982 from graduates who have already demonstrated competence in educational research and who are in a position to pursue or continue a career involving educational research upon completion of the Fellowship. Fellowships provide for a short period of advanced training and experience in one or two institutions (either in Australia or overseas), nominated by the applicant, where educational research is carried out at a high level.

Fellowships are normally awarded for a minimum of three months and up to a maximum of six months, but in special cases a slightly longer period will be considered. Provisions for successful applicants include:

- economy class return airfare (where applicable).
- a sustenance allowance (appropriate to the country concerned).
- payment of all compulsory fees.
- payment of certain incidental costs.
- Fares and allowances are not available to dependants.

Applications for Advanced Research Training Fellowships will close on January 23, 1981. Application forms and further information may be obtained by writing to the Secretary, EROC, P.O. Box 856, Woden, ACT 2606, or by telephoning Canberra (062) 797 044. It is expected that awards will be announced in June 1981.

Advertisements

**WANTED**
GREAT HOME for lovingly cared-for family. Please telephone Extension 260 or 57 0475.

**WANTED**
People interested in joining a babysitting co-operative in the New Lambton Rankin Park area. Please contact 57 1130 or 52 5821.

**WANTED TO RENT**

**POSITION WANTED**
Hand caning available for Bentwood chairs and Rockers. Please telephone 67 4518 after hours.

**FOR SALE**
PING PONG TABLE - Full size table tennis; folding legs; two bolted sections for easy storage or transport; good condition $50. Please telephone Extension 444 or 59 4285.

CAPSELA - the spaceage construction kits, models K500 and K300, fully equipped, excellent Christmas gift for boy eight upwards. Please come along and inspect in Room L652 or telephone Extension 375. $60.

SURFBOARD - perfect for beginners, 6'6". Single fin, Nirvana, with cover and legrope, $50. Please telephone Extension 375.

NEWCASTLE FORUM meets at the M.E.A. each month. Forum is a social and discussion group for thinking, mature-minded people. Please contact Tom 69 4771 for further details.

Frenzied merrymaking

It will be a scene of frenzied merrymaking on Monday night, November 24, in the Union, when this year's Recovery Ball is held.

The ball is the traditional University of Newcastle gathering at which students regain strength and refresh themselves after the annual examinations. It usually attracts a sell-out house.

The ball will be held from 8 pm until 1 am and the celebrations will have a central theme, The Revolution Is Coming.

Included in the entertainment will be Cabaret Conspiracy, a three-hour entertainment package. Tarot Card Readers and Palm Readers will wander amongst the guests.

Musical entertainment will be provided by Jeff St. John, The Tim Piper Blues Band and The Proteins. Tickets, which cost students $5 and their guests $7, are on sale in the Union. Sales will be limited to 1,000 tickets.

The Proteins. The Tim Piper Blues Band and The Revolution is Coming. Musical entertainment will be provided by Jeff St. John, The Tim Piper Blues Band and The Proteins. Tickets, which cost students $5 and their guests $7, are on sale in the Union. Sales will be limited to 1,000 tickets.

One of the more famous Tarot cards - not a student is unaware of the results.
Diary of Events

Education seminars

Seminars to be presented for postgraduate students, and staff, in Education, as well as research students and staff in other departments of the University. All will be conducted in Room W202, Department of Education.

November 3
9.15 am

10 am

11.45 am
Mr. A.C. Archer: M.Ed. prospectus. Curriculum evaluation in Agricultural Education. Chairman: Dr. K. Telfer.

2 pm
Mr. J. McQuater: Staff paper. 100 years of public examinations in N.S.W.

3 pm
Mr. Lister: Ph.D. progress report. Some methodological problems associated with writing a history of the curriculum of SOA schools. Chairman: A/Prof. A. Barcan.

4 pm
Mr. G. Doran: Ph.D. prospectus. Paul Feyerabend and science education in medicine. Chairman: Prof. R. Laura.

November 4
9.15 am
Dr. A. Ashman and Dr. E. Braggett: Staff paper. Educational programmes for gifted children: research in progress.

10 am

11.10 am

11.45 am
Mr. G. Barnes: M.Ed. progress report. Learning styles in young children. Chairman: Dr. E. Braggett.

2 pm
Mr. J. McCrum: Ph.D. prospectus. Resistance to change in technical and further education administration. Chairman: Dr. J. Wood.

2.45 pm

3 pm
Dr. J. Wood: Staff paper. Flexile employment patterns for the 1980's.

4 pm
Mr. J. Schiller: Ph.D. prospectus. The nature and practice of student-teacher perception. Chairman: Dr. R. Telfer.

4.30 pm

5 pm
Mr. D. Carley: M.Ed. progress report. Punishment - school and society. Chairman: Mr. W. Warren.

November 5
9.15 am
Dr. E. Braggett: Staff paper. Action research.

10 am

11.16 am
Mr. G. Barnos: M.Ed. progress report. Learning styles in young children. Chairman: Dr. E. Braggett.

3 pm
Mr. D. Carley: M.Ed. progress report. Punishment - school and society. Chairman: Mr. W. Warren.

3.45 pm

4 pm
Mr. J. Schiller: Ph.D. prospectus. The nature and practice of student-teacher perception. Chairman: Dr. R. Telfer.

4.30 pm
Mr. J. McCrum: Ph.D. prospectus. Resistance to change in technical and further education administration. Chairman: Dr. J. Wood.

4.45 pm

5 pm
Dr. J. Wood: Staff paper. Flexile employment patterns for the 1980's.

5.45 pm
Mr. J. Schiller: Ph.D. prospectus. The nature and practice of student-teacher perception. Chairman: Dr. R. Telfer.

November 6
9.30 am
Computing Centre seminar presented by John Lambert, VIO1. Introduction and Background.

11 am
Ian Smith, Very Elementary Use, VIO1. Ian Smith, Introduction to the Command Language, VIO1.

November 7
2 pm
Computing Centre seminar presented by John Lambert, VIO1. Introduction and Background.

2.30 pm

3 pm
John Lambert, Pascal, VIO1.

3.30 pm

4 pm
Computing Centre seminar presented by John Cooper, The Statistical Packages - MDPF, F-STAT, GLIM, VIO1.

5 pm
Computing Centre seminar presented by John Cooper, The Statistical Packages - MDPF, F-STAT, GLIM, VIO1.

November 8
6 to 9 for 4 hours
"Renovare Your" End-of-Year Party, organised by the Medical Society and the Engineering Society, Siam's Bar Courtyard, The Union. (Bring a staple and get in free; others $3). Barbeque, legs, all you can eat and drink.

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