

# guelph

## UNIVERSITY NEWS BULLETIN

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*Program draws attention*

## Student records computerized

A computerized student information system at the University is attracting attention from universities across Canada.

The Student Information System has been on-line in the Records section of the Registrar's Office for the last two years and is scheduled to be implemented in the Admissions section in January, says Peter Tron, Registrar's Office.

The Admissions Office is where all undergraduate applications for the University start. Other Canadian universities are particularly interested in the Admissions computer program for its credit equivalence program whereby transcripts from students applying to the University will be entered on-line. The computer will then automatically arrive at the Guelph equivalent for courses or credits from other universities, regardless of where the student is coming from, he says.

So far, the Universities of Manitoba, Toronto, Waterloo and Brock have visited Guelph to see the new system. Ontario universities are interested in joining together to form a task group so that all can benefit from the program. "I can see a day when universities will not have to require transcripts," says Mr. Tron. "The Ontario Universities' Application Centre could eventually input the data and the receiving University would capture the total transcript including equivalent credits on computer tape."

The on-line student admissions information records include biographical material, secondary school grades (12 and 13), academic data from any other post-secondary institutions the student has attended and an account of all official correspondence between the students and the University.

All this material will be at the fingertips of the Admissions staff who will no longer have to put students on hold while they

search for files. "One of the main objectives is a paperless office," says Mr. Tron.

As for accuracy, there are safeguards in the system to ensure that no important material is missing from any one file. Mr. Tron says speed and accuracy are equally important aspects of the system. "Because we are a service operation, the new system should increase our efficiency in dealing with prospective students."

The University of Guelph is one of the few Ontario universities that has a systems section reporting directly to the Registrar: The fact that this section is an integral part of the office ensures that the technical staff have a good working relationship with the users of the system and are familiar with the day-to-day operations of the entire Registrar's Office.

The Admissions staff at Guelph have been intimately involved in the specifications

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## Phoenix Theatre donates archives

Another Ontario theatre archive has been acquired by the Library. Graham Harley, artistic director of Phoenix Theatre, and Professor Leonard Conolly, Chairman, Drama Department, have arranged for the transfer of the Phoenix archive to Guelph.

Founded by Graham Harley in 1975, Phoenix Theatre closed down in the summer of 1983 because of financial difficulties. Once described by a *Toronto Star* theatre critic as "the liveliest and most eclectic theatre in Toronto," Phoenix built its reputation on the artistic excellence of innovative productions of a wide range of plays, from John Vanbrugh's Restoration comedy, *The Relapse*, to Allan Stratton's *Nurse Jane Goes to Hawaii*. Many of Phoenix's productions were Canadian premieres.

The Phoenix archive contains several prompt scripts, fundraising files and documents, production files, programs, review clippings, sound tapes, designers' sketches, posters, box office receipts, contracts and a human skull used in a 1981 production of *Hamlet*.

The Phoenix archive joins those of the Shaw Festival and Tarragon theatres at the University of Guelph □

*Arts Dean David Murray and Professor Eugene Benson, English Language and Literature, presented a print by Levi Qumaluk of Povungnituk, to Judy Nasby, Director, MacDonald Stewart Art Centre. The print was donated by the College of Arts in memory of Donald Forster, President of the University of Guelph, 1975-1983.*



# University's aims, objectives up for review

## Senate votes for Biotechnology Centre, new department

### Meeting November 15, 1983.

Perspectives of the future characterized discussion at Senate. The meeting was chaired by Acting Vice-President, Academic, Dr. Janet Wardlaw. Among the decisions were: the approval of plans to establish a Plant Biotechnology Centre, approval of a new Department of Molecular Biology and Genetics, authorization of a major review of the University's Aims and Objectives, and establishment of the position of Associate Vice-President, Academic.

Professor Ron Osborne, chairman of the Research Board, who presented the proposal for the Plant Biotechnology Centre, pointed out that scientists on campus working in this area perceived the need for a focal point for work conducted in various departments. One of the advantages cited was improved ability to relate to national granting agencies such as Agriculture Canada, the National Research Council and the Natural Sciences and Engineering Research Council, who are stepping up support for work in this area.

In response to a question, Dean of Research, Bill Tossell drew a distinction between the responsibilities for the Centre and those of the new Department of Molecular Biology and Genetics. The Centre, said Dean Tossell, would focus on mission-oriented work relating to plants, while the new Department would concentrate on graduate studies and basic research. Dean Tossell also said that, in view of developments under way in Ottawa, it was urgent to move ahead quickly in this area. He added that he looked forward to increased interaction between the social sciences and the biological sciences through centres such as this.

During discussion Dean Tossell also reported on a proposal for a joint Guelph-Waterloo effort in Biotechnology, capitalizing on the various strengths of both campuses, such as Waterloo's success in industrial linkage. If this idea moves forward, the new Guelph Plant Biotechnology Centre would become one element in the joint effort.

In proposing a new Department of Molecular Biology and Genetics within the College of Biological Science, Professor Tom Hulland, chairman of the Committee on University Planning, stated that many departments on campus depend on the support of basic research developments in this area. The new department will initially draw faculty members from several departments — a number of them probably on cross-appointments. The faculty complement will ultimately reach about 10, said CBS Dean Burce Sells.

Dean Tossell said approval would be a milestone decision. "We now have the largest group of biologists at any Canadian university," Dean Tossell continued, "but we cannot stay at the forefront without this

type of a grouping to undergird all segments of biology on the campus. The effects of this decision will be felt for many years."

A suggestion to name the new department "Cellular and Molecular Biology and Genetics" failed to gain support. Professor Hulland pointed out that the proposed Graduate Centre will include this wording, and many departments on campus deal with cell biology.

Dean Sells observed that: "We consider part of our mandate to include cell biology in a broad context (eukaryotes) except those in the domain of the microbiologists (prokaryotes)." He also pointed out that genetics is moving today in the direction of molecular biology.

Dean Jack MacDonald of the College of Physical Science pointed out that the new department is "equally important to Physical Science faculty members. We will work very hard to make it a success."

Professor George Barker said that he came to Guelph to chair a department of Botany, but before he arrived he had inherited Genetics as well. He described the separation of the two groups now in his department as, "a very exciting development" and promised his whole-hearted support for the new department. "This is not a fad, it is here to stay," he concluded.

The proposal to change the position of Assistant Vice-President, Academic, to Associate Vice-President, Academic, with increased, and some "line" responsibilities drew the concern of many senators. They debated the motion for over half an hour, expressing particular concern over the creation of a new administrative position at this time. The motion passed with a small majority after a lively discussion. The change will become effective on July 1, 1984.

The Awards Committee reported 11 new awards, changes to five others and the cancellation of three existing awards. The new awards include the Keith Ronald Graduate Fellowship of \$1,000 for graduate work in the College of Biological Science, the Mae McEwen Memorial Scholarship of \$1,000 for a student who has completed semester six of the Environmental Biology Major in the B.Sc.(Agr.) program, and the College of Social Science Graduate Scholarships of \$1,000 each, with up to 10 awards being made annually to graduate students entering the College.

Other decisions of Senate included renaming the Chemistry Department the Department of Chemistry and Biochemistry, and initiating a full review of the Aims and Objectives of the University. The purpose of the name change is to enable the Department to compete more effectively off-campus for graduate students and research funding.

The review of the Aims and Objectives is in line with established policy that this exercise should be undertaken every five years. The document was first adopted in 1972 and was reviewed in 1978. A committee of 13, chaired by the Vice-President, Academic, will undertake the task.

### MOTIONS

#### Executive Committee

- Senate approved changing the position of Assistant Vice President, Academic, to Associate Vice President, Academic, effective July 1, 1984.

#### Striking Committee

- Senate received for information the names of two Senate appointees to the Selection Committee for Director of the Office for Educational Practice. They are: Professor B. Boehnert and Professor E.L. McFarland.
- Senate received for information the names of the College Representatives on the Library and Awards Committees:

Professors P. Hardwick, M. Beverley-Burton, M. McKim, C.G. Gray, V. Lotter, R.W. Irwin and O.P. Miniats were appointed to the Library Committee and Professors E. Waterston, J.M. Canne, M.J. Wall, A. Salvadori, B.E. Smit, G.M. Jenkinson and J.H. Reed to the Awards Committee.

- Senate approved the proposed additions to the Library Committee and the Committee on Educational Development.

Graduate student J. Berry was added to the Library Committee and graduate students L. Hill, J. Randall and J. Berry to the Committee on Educational Development.

#### Board of Undergraduate Studies

- Senate approved the proposed schedule of dates for 1984-1985.
- Senate approved the proposed B.Sc. Specialized Honors Applied Biochemistry Program.
- Senate approved the proposed B.Sc. (Agr.) Minor in Agricultural Mechanization.
- Senate approved proposed changes to the B.Sc. Specialized Honors Botany Program.
- Senate approved proposed changes to the B.Sc. Specialized Honors Microbiology Program.
- Senate approved the introduction of Work/Study Co-operative Education in the B.Sc.(Eng.) Program.
- Senate approved the introduction of Work/Study Co-operative Education in the B.Sc.(Agr.) Soil Science Major.
- Senate approved the introduction of Work/Study Co-operative Education in the B.A.Sc. Family Studies and Child Studies Majors.

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# The university: academic freedom in a neutral zone



The time may have come for universities to reconsider their historical neutrality, said Acting President Dr. Howard Clark in the last of the series of discussions on "The University Nuclear Arms."

Speaking on "The Social Responsibility of the University," Dr. Clark pointed out that universities have traditionally taken their neutrality on moral and social issues seriously, to the point that it was felt improper even to encourage debate on such issues.

The fact that universities have long been focal points of such debate springs from another tradition, namely that of academic freedom.

Certainly, he continued, this view has prevailed in North America ever since the Association of American University Professors' declaration of 1915, which affirmed the right of faculty to speak their minds, their right of tenure and their right to a hearing before they could be disciplined.

Given the variety of views that faculty might express, the university itself, as an institution, could do little else but maintain a strictly neutral posture. Controversial professors have always been acceptable, provided it was clear that they spoke only for themselves and were not reflecting what might be perceived to be their university's own ideological goals.

Since those days, Dr. Clark said, universities have grown in size and changed in character, particularly with respect to the sciences. This, in turn, has emphasized the scientific method, the impartiality of the researcher and the idea of the scientist's having no responsibility for the social consequences of his research.

Against this background, Dr. Clark argued that the concept of strict university neutrality is no longer valid. "Our prime function," he said, "is still to transmit knowledge and to discover new truths, but since this knowledge is transmitted and these truths are discovered by human beings, surely we

have a responsibility to develop in these human beings the ability to make moral judgments and ethical decisions about their work. Seen in that light, the university can no longer be neutral. You cannot encourage the development of moral maturity unless the institution itself displays a sense of responsibility towards ethical issues."

Some obligations are clear, he noted. The institution would have to insist that debate be rigorous. It can also take action to provide an adequate forum for such debate, to see that it is balanced, that all views are presented and that it should not involve indoctrination. This can be done through courses, seminars or conferences.

It can insist that the function of discussion is to clarify the nature of the problem and to suggest solutions. It might even be possible for a university to place itself on record on such basic issues as declaring its opposition to war and its belief that logical, rational discussion can make an important contribution to the settlement of disputes.

The emergence of any such new roles for universities, concluded Dr. Clark, could proceed only with caution and much further debate.

A new series of weekly discussions on the university's role in contemporary society is being planned for the winter semester. □

## Grand Canyon still a thrill

Seventeen third- and fourth-year Geography students travelled to Arizona for 12 days in August as part of the 1983 Department of Geography Field Course. This annual summer course exposes students to unfamiliar environments, says Professor Bill Nickling who, with Professors Phil Keddie and Julius Mage, led the expedition.

"Long-distance trips are expensive and we have to alternate them each year with a more local study. The Arizona trip was possible only with the generous help of Alumni Association funding," he said.

Students set up headquarters in a motel at Tempe, a suburb of Phoenix near the Arizona State University whose geography faculty provided important resources in the study of local conditions.

The trip provided students with first-hand experience of the physical and human aspects of an arid environment. The physical aspects could be observed directly in river bed morphology, the effect of tamarisk growth in channel development and such topographical phenomena as *taboni*, or cavernous weathering. Field studies of this kind were conducted at temperatures above 40°C most of the day.

"We had to cover a lot of ground," recalled Prof. Keddie. "The logistics were

complicated since we wanted to take every advantage of the unique opportunities provided both by the terrain and the courtesy of the people at Arizona State. And of course, we could not miss the Grand Canyon. No matter how many photographs you have seen of it, or, as far as that goes, how many times you have been there, the reality is still an awesome shock." □

## OAC recognizes high school teachers

The fall OAC awards ceremony marked the launching of an innovative program sponsored by the OAC Alumni Foundation. For the first time the awards dinner for the 15 recipients and their parents included a high school teacher who each student felt had made the most significant contribution to his/her early education.

"As far as we know, this is the first time anything like this has been done in Canada," according to Professor Mike Jenkinson, who says high school teachers are only rarely made directly and publicly aware of their personal contribution to an individual student's development.

At the awards ceremony held in War Memorial Hall, \$128,450 from some 70 donors, was distributed to about 150 students. Three new awards were made including the Greig Muir Memorial Scholarship of



Regina Rieckenberg, left, of Thunder Bay, receives the Amos and William Lowe Scholarship from Professor T.K. Warley, School of Agricultural Economics and Extension Education.

\$700 for a second-year student from Quebec who is entering food or dairy science. A new award from Monsanto provided \$300 to a fourth-year student majoring in horticultural science, plant protection or crop science, and a new Ontario Food Protection Association Scholarship of \$200 was given to a food or dairy science student.

The Amos and William Lowe Memorial Scholarship of \$1,500, first announced five years ago to a student entering OAC from Rainy River or Thunder Bay, was presented for the first time this year. □

## Just you and the music

A three-year-old Strathclair, Manitoba girl stepped tentatively onto the ice in her new two-bladed training skates and enjoyed the experience so much that she went on to become senior women's figure-skating champion of Canada. Heather Kemkaran, who represented her country in the Lake Placid Winter Olympics, is now an undergraduate at Guelph, majoring in English and political studies for a career in law.

Heather, whose first win in competition skating did not come until she was seven years old, talks about the high levels of dedication needed to become a champion. Her drive comes from an invincible will towards excellence, she says. "You can't really talk about the competitive spirit in figure-skating. You don't have the runner in front of you to overtake or the one behind to stay ahead of. You are on your own under the bright lights with months of hard training behind you and mere minutes in which to achieve everything. You are sustained by the electricity of the mo-



Heather Kemkaran.

ment, with all the pre-skate jitters left behind the moment you hit the ice — it's just you and the music."

there is nothing casual about the music. The final selection of three brief passages that will perfectly capture the mood and the rhythms of those crucial minutes come only after months of tentative choreography, worked and

reworked until every beat and nuance is translated into lyrical movement.

Heather was 12 years old before she won her first national championship as a novice. She jumped straight from there to the senior level and finished seventh in 1975 at the age of 15. Three years later she was first. She slipped to second in 1979, but made an unprecedented come-back to regain the title in 1980. By that time she had represented Canada in nearly a dozen international events, culminating in the 1980 Olympics.

But where was she to go from there? The obvious route was to turn professional and make a lot of money, she says. "It was all very tempting and there was no shortage of offers. The alternative was to retire from skating and educate myself for a more durable career."

Heather registered for part-time studies at the University of Toronto in 1980 and came to Guelph as a full-time student in 1982. She hopes to go on to law school where she may specialize in contract law in the show business field.

In the meantime, she is putting the finishing touches to a feature film script which she expects to co-produce. It is based on a fictionalized version of her career. □

## Unemployed alienated from friends and family

The effects of unemployment are like ripples from a stone dropped in the water. First the immediate family feels the strain, then the extended family and friends, and as time passes, the community, where retail merchants and social services are hit. Eventually, the impact becomes national.

The unemployed suffer not only from severely restricted incomes that may lead to loss of house or in extreme cases — bankruptcy — but also from stresses that lead to physical, psychological and social problems ranging from insomnia to high blood pressure and a decrease in personal self-worth that is never overcome, notes Amy Cousineau, who is well known at community and provincial levels for her work in credit counselling. Mrs. Cousineau taught in the areas of family finance and economics in the Department of Family Studies for several years before taking up her new position as assistant to the Director of the Gerontology Research Centre.

One of the most damaging effects of unemployment is the loss of the support system that sustains the worker. The unemployed person becomes isolated from work associates and often alienates himself from extended family and old friends. A sense of

shame and fear of competition in a reduced job market may discourage continued contacts with old colleagues and participation in self-help groups.

There are, however, some positive effects of unemployment, she notes. Some workers develop close ties with children they had little time to enjoy while they were working. Also, the power structure of the family may shift, giving husband, wife and perhaps children more equal roles in decision-making. In addition, unemployed people often develop new skills such as cooking or carpentry, and may become involved in skills exchanges.

Mrs. Cousineau does not, however, see a rosy future for Canadian workers. Although the baby boomers have now mostly been absorbed in the job market, jobs will continue to be lost to technology and women will continue to enter the work force in increasing numbers. Although some commentators feel that the proportion of women in the workforce, now at about 50 per cent, will level off, Mrs. Cousineau believes that figure will continue to climb. Already, most women with school-age children are working, and increasing numbers of younger women are taking only brief maternity leaves when their children are born.

Many of these women cannot afford to stop working, she notes. Others are single mothers who have no choice but to work, and yet another group has become used to a lifestyle dependent on two incomes. Also, increasing numbers of women are unwilling to disturb their career progress for years at a time.

As more people suffer the indignities of unemployment and inflation, the Canadian dream of the 1960s — a good job and a nice house — recedes. Young Canadians find that hard work is not necessarily its own reward and that jobs do not always wait for those who study hard, she says. Not only young people, but their parents too, suffer bitter disappointment as a result.

Mrs. Cousineau suggests that in today's job market, flexibility and adaptability are extremely important. She points out that even with the high rates of unemployment, there are, in fact more than 10 million Canadians employed.

One factor that makes the unemployment situation a little less financially straining than during the 1950s and 1960s is that there is often another income in the unemployed worker's family. This may be another adult or a teenager, and does reduce the financial stress, she says. □

Continued from page 2.

Senate approved the introduction of Work/Study Education in the B.A. Honors Psychology Co-operative Program.

Senate approved proposed changes in the schedule of studies for the Pre-Veterinary Year.

Senate approved proposed changes to semesters 1 and 2 of the D.V.M. Program.

Senate approved proposed changes for admission to the Pre-Veterinary Year.

Senate approved proposed changes for progression from the Pre-Veterinary Year to semester 1 D.V.M.

Senate approved the list of proposed new courses.

Senate received for information the membership of the Program Committees for 1984-1985.

#### Board of Graduate Studies

Senate received for information the additions to Graduate and Associated Graduate Faculty.

*Graduate Faculty:* J. Lipkowski, Chemistry, H. Farazdaghi, School of Engineering, G. Hayward, School of Engineering, R.T. Oakley, Chemistry, W.H. Johnson, Clinical Studies, K.F. Harling, School of Agricultural Economics and Extension Education, M.A. Hayes, Pathology and M.K. Clayton, Mathematics and Statistics.

*Associated Graduate Faculty:* R.W. Baron, Agriculture Canada/Environmental Biology, W.T.K. Bosu, University of Wisconsin/Clinical Studies, S.E. Dixon, Retired/Environmental Biology, S.F. Koval, University of Western Ontario/Microbiology, R.J. Van Exan, Connaught Laboratories Ltd./Biomedical Sciences, A.P. Watson, Arboretum/Consumer Studies, T.G. Kennedy, Medical Research Council Group/Animal and Poultry Science, W.R. Jarvis, Agriculture Canada/Environmental Biology, E.A. Trott, Philosophy, W.D. Patterson, Connaught Laboratories Ltd./Microbiology, and, D.C. Factor, Thistletown Regional Centre/Psychology.

#### Board of Studies for the Associate Diploma in Agriculture

Senate approved the revised schedule of studies for the Farm Operators and Managers Division, beginning with semester 2, winter 1985.

#### Research Board

Senate received for information the list of members of the Board and its standing and ad hoc committees for 1983-1984.

Senate received for information the report on research funding received during 1982-1983.

Senate received for information the description of the Research Board Grants Program.

Senate approved the revised Radiation Safety Policy.

Senate approved the revised Biohazards Safety Policy.

- Senate approved in principle the establishment of a Plant Biotechnology Centre.

- Senate approved a proposal to assess after five years the desirability of continuing the Plant Biotechnology Centre.

#### Committee on Bylaws and Membership

- Senate received for information the results of fall semester by-elections.

Faculty members elected were: Professors J.C. Alexander and R.D. Gentry. Graduate students elected were J. Berry, J. Randall and L. Hill.

#### Awards Committee

- Senate approved the following new awards:

The Ted Newton (Memorial) Scholarship, R.A. Fisher Scholarship in Statistics, The Leibniz/Newton Calculus Scholarship, Keith Ronald Graduate Fellowship, The Ontario Food Protection Association Scholarship, Varley and Lyon Exchange Scholarships, Mae McEwen Memorial Scholarship, College of Social Science Graduate Scholarships, Kim Prize, John E. Tong Memorial Award and A.C. Nielsen Scholarship.

- Senate received for information the report on changes and cancellations of awards.

The awards with changes are: Arts Alumni Scholarship: name change to Donald Webster Memorial Scholarship; Glaxo Prize in Large Animal Surgery: name change to Glaxovet Prize in Large - Animal Surgery; College of Biological Science Alumni Association Alma Mater Scholarship (Graduate): change in value from \$250 to \$1,000; Biological Science Students' Council Scholarships: change in value from \$100 to \$150 each and Massey-Ferguson Scholarship: change in time of making award from end of the fourth year to end of the third year.

The awards cancelled are: The Robert D. Newton Memorial Award, Patricia McKeown Memorial Scholarship and Andrew Leslie MacNabb Prize.

#### Committee on University Planning

- Senate established a committee to review the Aims and Objectives of the University of Guelph, with at least an interim report to be made by June, 1984. The Committee membership will be:

The Vice-President, Academic who shall be Chairman; the Chairman of the Senate Committee on University Planning; the Provost and 10 additional members of Senate, appointed by Senate, of whom three shall be Deans, one shall be an undergraduate student, one shall be a graduate student and one shall be on a Board of Governors appointee to Senate.

- Senate approved changing the name of the Department of Chemistry to the Department of Chemistry and Biochemistry, effective immediately.

- Senate approved the establishment of a Department of Molecular Biology and Genetics, to become operational July 1, 1984.

- Senate renamed the Department of Botany and Genetics the Department of Botany, effective July 1, 1984. □

## Heavy metals affect crops

Heavy metals in the environment from industrial processes and their effect on crop growth are being investigated by a researcher at the OAC.

Horticultural Science professor, Doug Ormrod wants to determine how much exposure to heavy metals, such as nickel, copper, lead, mercury and zinc, plants can tolerate before showing injury. His research is focusing on three of Ontario's major crops — corn, soybeans, and tomatoes.

Prof. Ormrod is using controlled environment facilities, applying various concentrations of the metals, either directly in the soil or in the dust that accumulates on plant leaves, and observing the growth and health of each plant. So far, he has learned that the plants can tolerate some exposure without any apparent damage. But, he says there is a "very sharp threshold," the point at which the plants become visibly injured. "As we gradually increased the concentration of the metals the plants didn't seem to respond," he says, "and then, very suddenly, they became seriously injured."

Prof. Ormrod says the results of his research could indicate the need for industry to adopt improved emission control practices such as greater use of filter systems to decrease the fallout of dust particles.

Prof. Ormrod has also spent several years investigating the effects of gaseous pollutants — originating in industrial emissions — on crops. He has worked specifically on the response of plants to nitrogen dioxide, sulfur dioxide, and ozone. He has concluded that, in general, the existing concentrations of individual pollutants are not harmful but when the pollutants are combined, more serious injury to plants usually appears.

"The major implication of this work is that the mixture of gaseous pollutants in the environment may be harmful to plants," he says. "Nitrogen dioxide, for example, when alone in the environment, is not injurious but when combined with other pollutants it can become injurious. This is something that was not considered when the air quality regulations were established and indicates that these regulations for acceptable concentrations of gases may need to be changed to account for the mixture of gaseous pollutants in the environment."D

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#### A Conservation Opportunity

The belief that the life of a lamp is shortened by turning it off is still with us. This does not apply in our environment, where the cost of power exceeds any penalty in shortening the life. The break-even point for turning out fluorescent lights is less than 10 minutes. If fluorescent lights were turned off at the time of our peak loading for the month, the saving could be over 50 cents per fixture.

**THE ANNUAL FALL CONCERT** of the University of Guelph Choir, conducted by Kathryn Laurin, will take place Sunday, November 27 at 8 p.m. in Chalmers United Church, Guelph.

This will be the first performance for the Choir under the direction of Miss Laurin. Soloists will be Donna Trifunovich, soprano, Ann Bisch, alto, John MacMaster, tenor, and Neil McLaren, baritone. Accompaniment will be provided by pianist Mary Louise Vosburgh, members of the Kitchener-Waterloo Symphony Orchestra and Jan Overduin, continuo.

The program will feature Mozart's "Missa Brevis in F Major, K. 192," and will also include excerpts from Mendelssohn's "Elijah" and Berlioz's "L'enfance du Christ."

Tickets are available at the University Centre box office or at the door. General admission is \$4; students and senior citizens, \$3.

**RON GIBBS**, Customer Systems Engineering Group, Bell Canada, will discuss "Fibre Optics" Tuesday, November 29 at 10 a.m. in Room 442, University Centre.

Mr. Gibbs will be describing fibre optics, how they work, where fibre optics are being used today and what Bell Canada hopes to develop in the future. The emphasis will be on how fibre optics are used, and will be light on intricate technical details.

For further information, contact Kent Percival, Ext. 3065 or Alison Van Roon, Ext. 2706.

Student records and development of the system, says Mr. Tron. The duties of the staff will be modified when the new system is implemented but everyone associated with the project is eager to get involved with the computer age, he adds.

IBM personal computers will be used as full-screen terminals connected to the GEAC mini-computer that runs the SIS system. These microcomputers can also be used for administering such programs as campus tours and liaison.

The official opening of the system will be in January and a workshop will be held in February for all Ontario universities. □

## University Canada

### New University Affiliates

The Board of Governors of the University of Alberta has approved an affiliation agreement between the university and The King's College of Edmonton. The agreement will be reviewed following its initial three-year period. King's College is a multi-denominational Christian liberal arts institution and is managed by a corporation. It offers courses in the arts, sciences, education and theology. The university and college are developing a list of courses approved for transfer.

The Senate of the University of Saskatchewan has approved affiliation of the Central Pentecostal College in Saskatoon as a theological college. The decision is subject to review in five years. The university's theological affiliates offer courses leading to degrees and diplomas in theology.

**THE UNIVERSITY OF GUELPH BAND**, conducted by Kenneth Tinnish, will present a concert entitled "Give My Regards to Broadway" on Monday, November 28 at 8 p.m. in Peter Clark Hall, University Centre.

In addition to the title song, "Give My Regards to Broadway," by George M. Cohan, the program will include some popular Broadway showtunes from the musicals *Ain't Misbehavin'* by Thomas "Fats" Waller et al; *A Chorus Line* by Marvin Hamlisch; *Fiddler on the Roof* by Jerry Bock; Leonard Bernstein's *West Side Story* and *Oklahoma* by Richard Rodgers.

Admission to the concert is \$2 and tickets are available from the University Centre box office or at the door.

**THE OAC DIPLOMA** livestock evaluation team represented the University at the Royal Winter Fair, and placed second out of nine competing teams in the Inter-College competition. The team consisted of Gerard Bruder, Dale Giffen, Art Groenewegen and Bernard Lehy and was coached by Dr. S.D.M. Jones, Animal and Poultry Science. Bernard Lehy won the Challenge cup for the best individual score in the competition.

**DON BARR**, Radio Shack, will demonstrate and discuss the "OMR Card Reader for Microcomputers," Tuesday, November 29 at 2:05 p.m. in Room 441, University Centre.

The purpose of the demonstration is to evaluate the equipment and to discuss the pros and cons of introducing these machines as a replacement for the large IBM card reader in the basement of the ICS building. Your opinions and ideas are vital to the future of OMR services on campus.

For further information, contact Jane Mathews, Ext. 3047 or Alison Van Roon, Ext. 2706.

### E.T. Jaynes

Professor E.T. Jaynes, Wayman Crow Professor of Physics at Washington University (currently on sabbatical at Cambridge University), will be a visiting professor in the Department of Physics from December 4 to December 17. His visit is sponsored by the University Short Term Visiting Professor Program.

Dr. Jaynes' research interests include the information theory (maximum entropy) approach to statistical mechanics, as well as the foundations of probability and statistics (particularly Bayesian statistics).

He will give the Physics Colloquium Tuesday, December 6, as well as a number of seminars to the Departments of Physics and Mathematics and Statistics on recent applications of maximum entropy methods in problems of image regarding construction, crystallography, and biomolecule structures.

Contact the Physics Department for details. □

**TWO FRENCH PLAYS**, *Un Mot Pour Un Autre* by Jean Tardieu and *Le Professeur Taranne* by Arthur Adamov will be presented Thursday, November 24 at 8 p.m. in Lower Massey Hall.

These plays are performed by the students of 44-302 (French Studies) under the direction of Professor Marguerite Andersen.

**THE DEPARTMENT OF ATHLETICS** is offering master classes in modern dance with guest artist Libby Nye Tuesday, November 29 from 6 p.m. to 7:30 p.m. and Thursday, December 1 from 6 p.m. to 7:30 p.m.

Libby Nye, an established teacher of the Limon technique, is a graduate of the Julliard School of Music and Dance and was a principal dancer with the Limon Company.

The registration fee (per class) is \$7, payable at the door. For more information telephone Cathy O'Brien, Ext. 2152 or 2215.

**THE THURSDAY NOON HOUR CONCERT** Thursday, November 24 features Eric Wilson, cello, and Thelma Wilson, piano from 12:10 p.m. to 12:45 p.m. and 1:10 p.m. to 1:45 p.m. in Music Room 107, Mackinnon building.

Program I at 12:10 p.m. will consist of the Prokofiev "Sonata in C Major, Op. 119," for cello and piano; "Kol Nidrei, Op. 47," by Max Bruch and "Fantasy Pieces, Op. 73," for cello and piano by Schumann.

Program II at 1:10 p.m. will include "Two Pieces for Cello and Piano (1899)" by Webern; "Suite for Solo Cello (19781)" by Eugene Wilson, professor of music at the University of British Columbia, and "Suite Populaire Espagnole for Cello and Piano" by de Falla, transcribed by Maurice Marechal.

Jane Toenjes of 503 Colborne St. E., Whitby, is the winner of the Clara E. Elliott Scholarship in the College of Family and Consumer Studies. The scholarship recognizes a student who maintains an A standing while making a significant contribution to the University community. The winner receives half of the \$4,000 award at the beginning of semester five (third year) and the remainder at the beginning of the seventh semester (fourth year). Miss Toenjes is enrolled in her seventh semester of Applied Human Nutrition. □

General Cafeteria **Help**, Food Services. Job rate: \$7.79. Probation rate: \$7.17. Open to on-campus employees only.  
Assistant Foreman, Maintenance Department. Salary range: \$21,915.00 - \$32,873.00. Midpoint: \$27,394.00. Open to on-campus employees only.  
Executive Secretary to the Director, Secretary to the University Centre Board, University Centre Directorate. Executive Secretary 1. Salary range: \$281.51 - \$403.41. Job rate (level 5): \$324.88.



## Faculty and Graduate Activities

Professor D.R. Farrell, History, attended the joint congress of the Canadian Society for 18th Century Studies and the Atlantic Association of 18th Century Studies in Saint John, New Brunswick, where he presented a paper, "To Keep Them in Proper Subjection: Jeffrey Amherst and the Indians."

Prof. Farrell also presented a paper, "Mobilizing for War: Logistics and the British War Effort in the West, 1775-1785" at the George Rogers Clark Trans-Appalachian Frontier History Conference held in Vincennes, Indiana.

Professor M. Fine, Family Studies, attended the annual conference of the American Association of Marriage and Family Therapy held in Washington, D.C. He presented a workshop with **Professor C.A. Guldner**, Family Studies, "Integrative Training Program: Choice and Chance," which was a detailed description of the family therapy training program at Guelph.

Prof. Guldner also attended the American Psychological Association Conference held in Los Angeles where he presented a paper, "Development of Family Therapy Within Canada." Prof. Guldner was presented an honor of merit award for his contributions to the divisional development of AAMFT.

Prof. Fine and two colleagues also presented a research session, "The Development of a Family of Origin Scale."

Professor K.F. Gregory, Microbiology, was one of two Canadians who participated as invited speakers at a conference on "Research in Biology and Biotechnology in Developing Countries," held at the National University of Singapore. Prof. Gregory's topic was "Recent Advances in Biotechnology with Particular Reference to Developing Countries."

Professor Peter Hardwick, Music, addressed the Guelph chapter of the Humanities Association of Canada on "Choral Music of the English Cathedrals, 1837-1910."

Professor Ross Irwin, School of Engineering, attended the Third Canadian Science and Technology Historical Association Conference held at Queen's University, Kingston. He presented a paper on "A Canadian First in Grain Harvesting."

Professor J.C. Majithia, Computing and Information Science, attended the conference on "Integrated Services Digital Networks," held in Monterey, California. He also served as member of the Canadian Council of Professional Engineers Accreditation Team at the University of Manitoba.

Faculty members and graduate students participated in the annual meetings of the Canadian Association of Gerontology in Moncton, New Brunswick. Professor Anne Martin Matthews, Family Studies/Gerontology Research Centre, gave presentations in a session, "The Availability of Data for Gerontological Research" and in a symposium, "Research Challenges in the Social Sciences"; Professor Joan Norris, Family Studies, gave a paper, "Assessing Qualitative Dimensions of Adult Social Interaction"; and Professor Joe Tindale, Family Studies, a paper on "Unemployment: Family and Generational Differences." Professor Victor Ujimoto, Sociology and Anthropology, chaired a session on "Ethnicity and Aging."

Sociology and Anthropology graduate students presenting papers at the conference were: Sandra Forbes, Family Studies, "Institutionalization of an Elder: Effects on the Family System"; Judith Frise, Family Studies, "Coping Mechanisms Utilized by Middle-Aged Working Women"; and Phil Rim-

mer, Family Studies, "The Effects of Age, Locus of Control, and Life Events on Midlife Men's Perception of Time," co-authored with Professor Joan Norris.

**Professor Anne Martin Matthews**, Family Studies/Gerontology Research Centre, representing the Canadian Association on Gerontology, and **Professor Joan Simon**, Consumer Studies, representing the Canadian Design Council, were among 300 invited delegates to the Second Canadian Conference on Aging held in Ottawa.

Professor G.S. Mittal, School of Engineering, discussed research work on "Functionality of Binders, Extenders and Meats in Meat Emulsions" at the Canadian Meat Council meeting held in Guelph.

Professor David Piggins, Psychology, gave a talk on "Seeing Depth" at the Sunday night series of talks at the Bookshelf Cafe, Guelph.

**Professor V.F. Rasper**, Food Science, attended the 68th annual meeting of the Association of Cereal Chemists held in Kansas City, Missouri. He was elected chairman of the carbohydrate division of the Association. He also chaired a symposium, "Cereal Polysaccharides -- Their Roles in Technology and Nutrition" sponsored by the Carbohydrate Division and approved by the American Dietetic Association for continuing education credits. As chairman of the physical testing methods committee, he organized several meetings of the committee where the working protocol for an international collaborative study on the use of alveographic technique in soft wheat quality testing was finalized. He also participated in the technical program of the meeting and presented two papers. A paper, "The Action of Lipoxygenase in Improving Soft Wheat Flour Duality" was co-authored by W. Zellen. The co-author of the second paper, dealing with "The Effects of Extrusion on Bread Baking Potential of Rice Grits," was H.R. **Sharma**.

Prior to the AACC annual meeting, Prof. Rasper attended a three-day workshop, "The Advances in Starch Chemistry" held at Osage Beach, Missouri.

**Dr. A. Singh**, Biomedical Sciences, presented a poster entitled, "Effect of 3-methylindole on Bovine Airways Lavage Cells" at the 41st Annual Meeting of the Midwest Anatomists Association held in Omaha, Nebraska. The co-authors of the work were Miss **M. Spinato**, Dr. O.S. Atwal and Dr. P. Eyre, also of Biomedical Sciences.

Professor D.A. Swayne, Computing and Information Science, presented a paper at Parallel Computing '83 held in Berlin. The conference, sponsored jointly by mainframe computer manufacturers and computer societies, was held at the Free University. His paper, "Parallel Implementation of ADL/D Methods," is to appear in the Proceedings to be published by North-Holland. It represents joint work with Dr. A.C. Genz of Washington State University.

Prof. Swayne, also attended the Society for Industrial and Applied Mathematics fall meeting and associated Conference on Scientific Applications of Parallel Processing, held at Norfolk, Virginia, where he presented a paper, "On Parallel LOD Methods" and also a joint paper with Dr. A.C. Genz, Washington State University, on "Parallel Implementation of AL/D Methods."

Professor Dan Yarmey, Psychology, presented a paper at the annual meeting of The Psychonomic Society, held in San Diego. The paper was "Witnesses' Attribution of Responsibility Toward Rape Victims and Rapists."

## PUBLICATIONS

Bray, T.M. and J.C. Merrill, 1983. "Effects of Species MFO Inducers and Conjugation Agents on the In Vitro Covalent Binding of <sup>14</sup>C-3-Methyl indole Metabolite in Liver and Lung Tissues," Comp. Biochem. Physiol. 75C(2): 395-398 (Bray, Nutrition; Merrill, University of Texas A & M).

Christofides, L.N. and D.A. Wilton, 1983. "The Determinants of Contract Length: An Empirical Analysis Based on Canadian Micro Data," Journal of Monetary Economics 12: 309-319 (Christofides, Economics; Wilton, Waterloo).

Majithia, J.C. and San Qi Li, 1983. "Buffer Analysis of an Integrated Voice and Data Terminal," Computer Communications, vol. 6, no. 4: 171-177 (Majithia, ICS; Li, Waterloo).

Mullin, Donald, 1983. Victorian Actors and Actresses in Review, Westport (Ct) and London: Greenwood Press, 1983, (Drama).

Ogilvie, T.H., S. Rosendal, T.E. Blackwell, C.M. Rostkowski, R.J. Julian and L. Ruhnke, 1983. "Mycoplasma felis as a Cause of Pleuritic in Horses," JAVMA, 182(12): 1374-1376 (Ogilvie, Blackwell and Rostkowski, Clinical Studies; Rosendal, Veterinary Microbiology and Immunology; Julian, Pathology; Ruhnke, OMAF Veterinary Services branch).

Patterson, J.M., S. Rosendal, J. Humphrey and W.G. Teeter, 1983. "A Case of Disseminated Paecilomyces in the Dog," Journ. of the American Animal Hospital Assoc. 19: 569-574 (Patterson, Clinical Studies; Rosendal, Veterinary Microbiology and Immunology; Humphrey, Pathology; Teeter, Martin Veterinary Hospital, Islington).

Renninger, G.H., 1983. "Synchronization of Impulse Generation by Lateral Inhibition in the Limulus Compound Eye: Intracellular Studies," J. Comp. Physiol. 152: 517-527 (Physics).

Rioux, Clement, D. Carlyle Jordan and James B.M. Rattray, 1983. "Colorimetric Determination of Catechol Siderophores in Microbial Cultures," Analytical Biochemistry, 133: 163-169 (Rioux and Jordan, Microbiology; Rattray, Chemistry).

Tapon, F., 1983. "CAPM as a Strategic Planning Tool," Managerial and Decision Economics, vol. 4, no. 3: 181-184 (Economics).

Tapon, F., 1982. "The CAPM: An Evaluation of its Potential as a Strategic Planning Tool," Managerial Science, vol. 28, no. 10: 1166-1173 (Economics).

## University Canada

The Social Sciences and Humanities Research Council spent \$51.3 million for grants and fellowships in the humanities and social sciences in 1982-1983, an increase of 21.8 per cent over \$42.2 million last given.

The increase represents supplementary funding provided by the government for stepped-up research in Canadian studies and priority areas.

The 240-page annual bilingual report lists all individuals and organizations awarded grants in 1982-1983, with supporting statistical and financial tables. The text discusses program highlights and administrative changes over the year and, in the program areas, gives brief descriptions of representative projects. Copies of the report may be obtained from the information division of the SSHRC, Box 1610, Ottawa, KW 6G4.

# Next Week at Guelph

## THURSDAY, 83 11 24

**Noon Hour Concert** - ERIC AND THELMA WILSON, cello and piano, 1210 and 1310, MacK107.  
**Worship** - CATHOLIC MASS, 1200, chapel, level 5, UC.  
**Apiculture Club** - BIOLOGY OF BEE-EATERS, M. Dyer, 1710, Graham Hall, Rm. 200.  
Graduate Seminars - THE RELATIONSHIP BETWEEN STRESS, ADRENAL CORTICAL FUNCTIONING AND HYPONATREMIA IN THE PHOCID SEAL, T.E. Johnson, 1110, Path220.  
Inter-Varsity Christian Fellowship - BIBLICAL LIVING: BETWEEN LEGALISM AND LICENSE, L. Delmonte, 1845, UC442.  
Meeting - BOARD OF GOVERNORS, 1000, UC424.  
Performance - LES BALLETS JAIL, 2000, WMH.  
Clinic - CAREER DISCOVERY, 1200, UC429.  
Drama - UN MOT POUR UN AUTRE et LE PROFESSEUR TARANNE, 2000, Lower Massey Hall.  
Film - THE CHINESE IN CANADA, 2000, Guelph Public Library.

## FRIDAY, 83 11 25

**Friday Flicks** - VIDEODROME, 1930 and 2130, P5105.  
**Worship** - FACULTY CHRISTIAN FELLOWSHIP, 1200, Johnston Hall 157.  
Chemistry Seminars - VITAMIN E - NATURE'S ANTIOXIDANT, Dr. Keith Ingold, NRC Ottawa, 1500, CM319.  
Sports - VOLLEYBALL, Brock at Guelph, 2000.  
Staff Development Opportunities - MANAGING YOUR PUBLICATIONS, Peter Taylor, 1315, UC442, Ext. 3058 to register.  
**Audubon Wildlife Films** - FROM REEFS TO ROCKIES, Charles Hotchkiss, 2000, WMH.

## SATURDAY, 83 11 26

**Sports** - VOLLEYBALL, Gryphon Tournament, 0900.  
**Continuing Education** - SNOW, WIND AND SUN CONTROL, F. Theakston, 0930; HOW TO BUILD A HOBBY GREENHOUSE, John Siemens, 0930; BEER MAKING, John Deman, 0930, Ext. 3956 to register.

## SUNDAY, 83 11 27

**Hollywood Nites** - THE HUNGER, 1930, WMH.  
**Worship** - ANGLICAN/UNITED, 1600, UC441; CAMPUS CHURCH SERVICE, 1030, PS113; CATHOLIC MASS, 1000, PCH.  
**Guelph Cycling Club** - PUSLINCH LAKE, 1000, UC.  
International Cinema - AUTUMN SONATA, 2000, PS105.  
Sunday Afternoon Walks - FILM FESTIVAL, 1400, J.C. Taylor Nature Centre.  
**Concert** - UNIVERSITY OF GUELPH CHOIR, 2000, Chalmers Church.

## MONDAY, 83 11 28

**Concert** - UNIVERSITY OF GUELPH BAND, 2000, PCH.  
**Continuing Education** - NEGOTIATING SKILLS FOR WOMEN, Anne Ruhl, 1900, Ext. 3956 to register.  
Drama - ANTIGONE, 2000, Inner Stage, MacKinnon building.

## TUESDAY, 83 11 29

**Worship** - CATHOLIC MASS, 1700, chapel, level 5, UC; CHRISTIANITY AND MARXISM, 1700, UC332.  
**Our World** - ZIONISM TODAY, 1210, UC442.  
Meeting - MICROCOMPUTER CLUB, 1900, IC5212.  
Drama - ANTIGONE, 2000, Inner Stage, MacKinnon building.  
Dance - MASTER CLASS IN MODERN DANCE, Libby Nye, 1800, Ext. 2152 to register.

## WEDNESDAY, 83 11 30

**Worship** - CHRISTIAN DOCTRINE CLASS, 1700, UC334; IMMANUEL FELLOWSHIP, 1900, AS141; ANGLICAN EUCHARIST, 1210, UC301; CATHOLIC MASS, 1700, chapel, level 5, UC.  
Biochemistry Seminars - RIBOSOME BIOGENESIS IN MYOGENESIS, Fred Jacobs, 1200, P5222.  
**Gerontology Research Centre Seminars** - CANADA AND THE WORLD ASSEMBLY ON AGING, Dr. Anne Martin Matthews, 1200, UC332.  
Classes - CITIZENSHIP ORIENTATION, 1930, 128 Woolwich St., Ste. 203.  
**Continuing Education** - INFORMATION MANAGEMENT, J. McBride and D. Beatty, 0900, Ext. 3956 to register.  
Drama - ANTIGONE, 2000, Inner Stage, MacKinnon building.

## THURSDAY, 83 12 01

**Worship** - CATHOLIC MASS, 1200, chapel, level 5, UC.  
**Apiculture Club** - LONG-TERM STORAGE OF QUEEN HONEY BEES, Dr. S.M. Shehata, 1710, Graham Hall, Rm. 200.  
Drama - ANTIGONE, 2000, Inner Stage, MacKinnon building.  
Staff Development Opportunities - FUNDAMENTALS OF LEADERSHIP, S. Baetz, 0900, UC441, Ext. 3058 to register.  
Dance - MASTER CLASS IN MODERN DANCE, Libby Nye, 1800, Ext. 2152 to register.



### For Sale

1974 VW Super Beetle, 836-2868; Ski-doo, 821-1545; Osborne I microcomputer, double density, software and service contract, contact John, 3328; small men's computer camp T-shirts, contact Shirley, 3956; girl's figure skates, size 2, 821-7826; plant stand with trays and grow lights, 843-4518 after 1800; 1976 Chev Nova, 853-3833 after 1800; Lowry Holiday Deluxe electric organ, 824-4432 after 1800.

### Wanted

Long hair male kitten, housetrained with shots, 658-9938; country home for red point Siamese cat, male, neutered, 824-3365; daily ride from Burlington area to Guelph, January, share gas, (416)632-5910; male skater with Junior Bronze Dance to partner Fergus Skating Club members for test days, paid position, starting immediately, 856-4049 after 1700.

### For Rent

Oceanfront condo, Ft. Myers Beach, Florida, Jan. 7-14, 822-6383 before 0800.

### Lost and Found

Lost: Seiko woman's silver watch, week of November 11, in MacKinnon building, reward, 823-1859.

Personals is a free service offered by the News Bulletin for staff, faculty and students at the University. All items must be submitted to the News Bulletin IN WRITING one week before publication

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