

## Official opening of Gerontology Centre

Acting President Dr. Howard Clark will officially open the new Gerontology Research Centre Thursday, November 3 in a ceremony which marks the culmination of more than 12 years of studies carried out at the University of Guelph.

Dr. Clark says the establishment of the Centre represents a major development of the University's research programs in the social sciences. "It recognizes the rapid development of strong research capabilities related to gerontology in the College of Family and Consumer Studies and the College of Social Science and should be a major provincial resource in an area of growing social significance."

The Departments of Family Studies, Geography, Psychology, Nutrition, Human Biology and Sociology have all, at various times, been involved in research into the human aging process, a fact which, as Dean of Research Bill Tossell says, "contributed significantly to the selection of this University as the location for the Gerontology Centre, rather than the other universities that also applied for the privilege."

The official opening, to be held in Macdonald Hall Room 149, will be attended by more than 100 members of the University administration, representatives of the Social Science and Humanities Research Council of Canada (SSHRC) which provided the \$297,000 to fund the Centre through its first three years, government officials, members of organizations involved in care of the elderly and faculty members who have carried out funded gerontological research.

Lawrence Crawford, provincial co-ordinator for senior citizens for the Ontario government, and William Taylor, SSHRC President, have been invited to address the guests on the significance of gerontology research. It is expected that Mr. Taylor will send a representative.

The Centre's director, Professor Anne Martin Matthews, says the Guelph Gerontol-

ogy Research Centre is one of only four in Canada. She sees its main function as that of developing systematic and concentrated research activities both by and for academics, government and service providers. A major mandate of the Centre is to foster collaborative, multi-disciplinary approaches to the studies of a broad spectrum of issues affecting Canada's aging population.

"The fact is," says Prof. Martin Matthews, "that when we talk about the one in four people who will be over 65 years of age one of these days, we are referring to ourselves. When we speak of 'their' needs we really mean 'our' needs."

Prof. Martin Matthews says the Centre, while acting as a stimulus and co-ordinator for gerontological studies in general, will tend to specialize in two main areas of

research: the aging family and the environmental aspects of aging.

"Guelph has a traditional interest in the rural environment and it is here that the social consequences, both of aging and the draining off of younger people into the towns, will be most evident. Some southern Ontario towns already have 16 to 18 per cent of their population over 65 years of age," she explains. "The cost to municipalities of providing the extra health care needed by the elderly out of a dwindling tax base is just one of the social problems we have to face."

Amy Cousineau, assistant to the director, feels the Centre has an important research co-ordination function to play.

"Part of our role is to help ensure that re-

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*A scene from The Suicide, playing at the Inner Stage, MacKinnon building, until October 29. Left to right: Drama students, Lauren Nesbitt, Jeffrey Shea and Helene Lohan.*

# Solids reveal their secrets

In spite of its pre-eminence as a fuel for industry for more than a century, coal until recently remained an enigma since scientists had no way of exploring its structure. Now scientists have developed nuclear magnetic spectroscopy techniques that allow probing the structure of non-crystalline solids. The latest *Chem Trends*, "Solids Reveal Their Secrets," describes how Professor Colin Fyfe, Chemistry, and other chemists around the world pursue studies of coal, polymers, glasses and industrial catalysts.

Many commercially important compounds such as polymers have been intensely investigated through the new solid state NMR techniques which involve magic angle spinning of the sample within a powerful magnetic field.

Prof. Fyfe and his research group at Guelph have used the technique to study Bakelite, a polymer first made in the late 19th century and used extensively in switches

and sockets. Until these NMR techniques were developed, there was no way to probe its structure.

Prof. Fyfe and his group have also studied coal, bulletproof glass, contact lens material and zeolites — a group of invaluable industrial catalysts that are used in the separation of by-products from crude oil. One zeolite developed by the Mobil Corporation catalyzes the conversion of methanol to gasoline at only 150 C.

A better understanding of the structure of these materials is a necessary prerequisite to improving them and developing new materials for consumer and industrial products.

The *Chem Trends* publication is published semi-annually by the Department of Chemistry as an information service to high school teachers. If you would like to receive this issue or be put on the mailing list, telephone Chris Hladun, Ext. 3802. □

## Gerontology Opening *Continued from page 1.*

searchers are not duplicating each others' work. By acting as a clearing house for all gerontological research past and present, on and off campus, we will evolve into an important resource centre to which workers in all disciplines can look for information. Our job is also to bring interested people together to relate complementary aspects of research being carried out by different people."

One of the most important facilities to be developed by the Gerontology Research Centre is a comprehensive collection of research papers — a major library function which, backed by computerized files, will provide a significant resource for everyone engaged in related studies.

The Centre will provide consultation, technical and clerical services to researchers, sponsor conferences, workshops and seminars and provide a base for scholars pursuing aging studies.

The research and secretarial staff of the Centre has the support of an executive working group consisting of Professor Tony Fuller, University School of Rural Planning and Development, Professors Ben Gottlieb and Linda Wood, Psychology, Professors Joan Norris and Joe Tindale, Family Studies, Professor Victor Ujimoto, Sociology/Anthropology. Each is contributing time to help develop policies for the Centre and to oversee its administration.

An advisory council consisting of 13 representatives of government, other universities and the private sector has been set up to receive and review reports, provide a province-wide perspective and advise the Centre on long-term policy issues. The advisory council will hold the first of its twice yearly meetings during the morning before the opening ceremonies. □



## Jae Chang Lee

A Korean professor, Jae Chang Lee, chairman, department of horticulture, Chungnam National University, Daejeon, is spending four months as a visiting professor in the Department of Horticultural Science working with Professors J.T.A. Proctor and E.C. Loughheed.



Prof. Lee's research area is the physiology of fruit ripening. At Guelph he is working on the gaseous exchange of fruits treated with compounds intended for extending shelf-life of fruits. His visit is supported by NSE RC through an International Scientific Exchange Award.

Prof. Lee may be reached at Ext. 3576 or through Prof. Proctor. □

## History professor honored

History professor, Gilbert Stelter has been honored by Moravian College, Bethlehem, Pennsylvania. A graduate of the College in 1956, Prof. Stelter has been named the 1983 recipient of the alumni association's Comenius Award for "outstanding achievement." The award, named for John Amos Comenius, 17th-century Moravian bishop and educator who is considered the "father of modern education," was presented at the annual Comenius Society dinner Friday, October 21.

Prof. Stelter, who is on sabbatical, has worked extensively with the Scottish, British

## Key issues shape ethics



A model showing the way in which we arrive at ethical decisions was outlined by Guelph chaplain, Rev. Dorothy Barker, at the latest noon-hour meeting in the "Universities and Nuclear Arms" series. In general she said, these are based on a combination of complex views in which both personal and societal elements are involved. On the personal side, we are possessed of many explicit but possibly unconscious convictions. What we believe about human nature, what we feel about history and what principles we deem to be "good" set out for us the framework of ethics within which we would, as individuals, like to live, she said. These ethical standards are only rarely absolute and we readily find justification for suspending our own guidelines when confronted by what we see as special or temporary circumstances.

On the other side of the coin, we cannot easily avoid the social, religious, political and economic context in which we live, Mrs. Barker continued.

Social ethical decision-making centres around ideologies — those complex weavings together of ideas which purport to explain social phenomena to the advantage of some interest group.

As much as we may resist ideologies we are all to a certain extent, victims of them. One of the functions of an ideology is to identify "key issues" for us. For example, she said, if we believe that the key issue is the survival of the American way of life, we may well come to different ethical conclusions with regards to the arms race than if we identify the key issue as that of the survival of the human race.

Mrs. Barker left her audience to ponder two of her propositions. One was that the moral burden of justification rests with those who would depart from the moral norm, and the other was that the true test of our values is the extent to which we are prepared to act on them. □

and United States governments to compare inner city history, progress and philosophy. He is completing a book, *New Towns in a New Land*, — a study of how Canadian communities were planned and built in the 17th and 18th centuries to understand the significance of British, French and American ideas in the formation of the Canadian settlement patterns.

Prof. Stelter is president of the Canadian Urban History Association, which promotes research on the urban past and publishes the periodical, *Urban History Review*, and is a member of the editorial board of *The Urban History Yearbook*, published annually by the University of Leicester Press in England. □

# Greenhouse conference features marketing tips

Fifteen hundred greenhouse growers will congregate at the University for the fifth annual Canadian Greenhouse Conference (CGC) Friday, November 4 and Saturday, November 5. The conference program will provide greenhouse growers with production tips and economic insights for the multi-million dollar industry. The Honourable Dennis Timbrell, Ontario Minister of Agriculture and Food, will open the conference.

The two-day conference is sponsored and organized by the Department of Horticultural Science, Flowers Canada, Ministry of Agriculture and Food, the Ontario Greenhouse Vegetable Growers Marketing Board, the Canadian region of Bedding Plants Inc. and Allied Trades.

Greenhouse growers from across Canada, the United States and Europe will attend. Greenhouse production in Canada is a multi-million dollar, high-technology industry. The farm gate value of flower crops produced in Canada last year was \$214 million including cut flowers such as roses and mums as well as pot plants. Exports of potted plants from Ontario was in excess of \$12 million. The bedding plant industry produced roughly \$18 million of flower and vegetable transplants. Greenhouse vegetable producers marketed \$30 million worth of produce last year, mainly tomatoes (\$18 million) and seedless cucumbers (\$12 million).

The CGC will present speaker sessions tailored to the current interests and needs

of each of these groups. Rej Picard, president of Flowers Canada and general manager of Westbrook Greenhouses, Grimsby, will speak on costs of production. Helmut Speiser, OMAF, will provide an update of greenhouse energy research at the Ridgetown College of Agricultural Technology. One of seven international speakers, Dr. David Hartley, Encinitas, California, will speak on poinsettia production. Dr. Hartley is director of research at Paul Ecke Poinsettias, the major supplier of poinsettia stock plants in North America. Merchandising of greenhouse products will be covered by a number of speakers. Duane Thompson, from the Greenery, Omaha, Nebraska, will speak on garden centre merchandising and Ray Menard of Dominion Stores will speak on chain store merchandising.

One feature of the two-day trade show will be a 5.5 m by 30.5 m (20 ft. by 100 ft.) greenhouse erected on the sidewalk outside the University Centre building. Eighty exhibitors from Canada and the United States will display their products over two floors of the University Centre and the School of Engineering buildings. Companies will include suppliers of greenhouses, irrigation systems, pesticides, potting and production materials, stock plants, seeds and florist supplies. □

## FOCUS

### Olympic trials next for marathon runner

For Tracey Robinson of Guelph, the longer the race, the better. The 20-year-old Human Kinetics student was the second Canadian and the fourth woman to complete the recent Toronto Marathon. Achieving a personal best of 2:42:18 over 26 miles, 385 yards, Tracey placed 62nd overall in a field of 4,085 runners.

This is the third marathon for Tracey, who has been running for five years, averaging 10 miles a day. She trains with the cross-country team after school and was voted "Most Valuable Player" last year. She lifts light weights during the winter to maintain muscle tone but admits she doesn't like track running. "It's so boring going around in circles," she says, "especially since I like to run long distances and that means going around the track quite a few times. Even in the winter, I still like to run outside, although you have to watch your footing."

Training for a marathon means increasing her weekly mileage from 70 to 80 or 85 miles for two to three months before the event. She also tries to do a longer run, 20 to 22 miles, once a week.

In Toronto, the course was fairly flat and the clouds kept the sun off, even though the weather was humid, she says. "I was hoping to come in under 2:45 at a strong, even pace but anything can happen in 26 miles. You can get cramps or start out too fast so you're never sure if you'll finish. I was lucky to have a teammate, Steve Thomas of Waterloo, running with me, pacing me."

Tracey says she didn't notice the humidity in Toronto because of the water and sponge stations every 2.5 km along the route. She stresses the importance of drinking water in a race, even though it may not seem necessary. "You have to start drinking early because by the time you need it at the end of the race you must have enough water already in your system."



Tracey has run in two other marathons — Bermuda in January and Ottawa in May of this year. In Bermuda, Tracey was the sixth woman, finishing at 3:00:24 and, in Ottawa, she was the second woman, by six seconds, finishing in 2:54:19. The Bermuda course was tougher because it was hilly, she says, although anyone who trains in Guelph should be used to hills.

In a marathon, women are not really racing against the men, says Tracey. "Men have more speed and strength than women, who tend to run more for time and pace in a mixed race. Because women have more fat for fuel, the disparity between men and women equalizes or may even turn to the woman's advantage in an ultra-marathon of about 50 miles."

Tracey is training now for the Olympic trials in Ottawa next spring. She feels she has a chance of being in the top three, although she admits that anything can happen — the top runner could be injured at the last minute or the 10th ranking person could have a good day. Canada sets extremely high standards for the trials, she says, and only those who beat that standard make the team. She thinks the time for the marathon run will be 2:37 — that's five

### Alumni & Development offers chime clock

The University of Guelph Alumni Association has arranged for the creation of an official University of Guelph Westminster chime clock which is now available to alumni, faculty members, and parents of enrolled students.

An original design of Johnston Hall, as viewed from the historic portico, is the centrepiece of the clock dial. The design was hand-sculpted in high relief by Caesar Rufo and minted in solid bronze.

Each clock will be registered in the name of the owner and will include a brass plate engraved with the owner's name. Orders for the \$250 chime clock must be made by November 15. A sample may be seen in Room 273 of Johnston Hall. Details: contact Jim Elmslie, Alumni Affairs and Development, Ext. 3355. □

minutes faster than Tracey's current record. The woman to beat, according to Tracey, is Jacquelyn Gareau of Montreal. "She's the best in Canada, at 2:28."

Other University participants in the Toronto Marathon were: students Randy Gimblet, 2:47:05; Mark Wiffor, 2:42:55; Joanne Fisher, 3:18:55; Luke Hohenadel, 2:56:08; Mike Toombs, 3:45; Linda Lusty, 3:49, and, Professors Alan Brookes, History, 2:34:40; Usher Posluszny, Botany & Genetics, 2:41:37; Stan Boutin, Zoology, 2:50:27; Don Stevens, Zoology, 3:04, and Sam Zelin, Engineering, 3:07. □

## Vegetarian alternative

Vegetarian eating can be a wise health choice but, contrary to some claims, a vegetarian diet will not induce inner peace, produce mental highs or otherwise lead to miraculous health changes. The latest *FACS Sheet* "Vegetarians Enjoy Some Health Benefits," deals with vegetarian diets — both their benefits and possible pitfalls.

Nutritionists in Family Studies discuss some of the problems experienced by zealous converts to vegetarianism and the potential problems with restricted diets. Eliminating all animal products is not really necessary to enjoy the lower fat, higher fibre benefits of a vegetarian diet, claim the nutritionists interviewed in the *FACS Sheet*. They suggest reducing meat consumption and having the occasional vegetarian meal. The *FACS Sheet* presents some recent research in the Department dealing with trace mineral status of vegetarians and the relationship between dietary cholesterol, fat and protein and coronary heart disease.

In Canada, we tend to equate protein to meat products but world wide, 65 per cent of the protein consumed is from plant sources. It is possible to ingest adequate protein by carefully planning meals around plant protein foods. Vegetarians who eliminate eggs and milk products as well as meat have to plan very carefully to ensure adequate intakes of essential nutrients.

The *FACS Sheet* is published several times a year as an information service by the College of Family and Consumer Studies. If you wish to receive "Vegetarians Enjoy Some Health Benefits," or would like to be on the mailing list for future *FACS Sheets*, telephone A.V. Campbell, Ext. 2409. □

### Best Film

The film, *The Hooded Seal*, produced and directed by University of Guelph personnel, took the "Best Film Award" at the recent Atlantic Film Festival.

The film is part of a series produced for Zoology professor Keith Ronald as a declaration on the status of seals of the world. Norman Lightfoot, Media Productions, was producer and principal photographer.

*The Hooded Seal* was made entirely by Guelph personnel. Prof. Ronald was originator and scientific adviser. Various agencies helped sponsor the film. The first film in the series was *The Harp Seal* which won many international awards and its purchase is now being negotiated by Encyclopaedia Britannica. The next film in the series will be on the endangered Mediterranean Monk seal.

*The Hooded Seal* will be featured as the first in a quality television series, *Profiles of Nature, being* made by Ralph Ellis of Keg Productions, Toronto. □

## Twin Calves at OAC

The first project in Canada in which researchers have implanted two embryos into a surrogate mother to produce twin calves, has been carried out at the OAC.

"The importance of the research is that one of the most inefficient parts of beef production is the cost of keeping one cow per year to produce an average of less than one calf per year," explains Animal and Poultry Science professor, Jim Wilton. "If two calves can be produced — thereby doubling the production — you see an immense improvement in efficiency. The method also makes it possible to have specialized meat-producing calves and specialized surrogate mothers."

Prof. Wilton says that the surrogate mothers — obtained through special crosses — can be small to medium in size so that feed costs are reduced, they have high levels of milk yield and are able to give birth to calves fairly easily. Due to genetic specialization, the calves produced have high growth rates, a good level of muscle relative to bone and, therefore, a high retail value.

In this first transfer, 31 surrogate mothers were used and nine sets of twins and five singles obtained. Prof. Wilton plans to repeat the project with some improvements made in the collection and transfer procedures. □

## Health research review days

The University is featuring three Animal Health Research Review Days for livestock producers in November. Held on three consecutive Tuesdays, beginning November 1, the review day lectures are presented by faculty members of the OVC.

Each of the three days includes discussions of current disease problems and presentations of research reports. Ample time is allowed for questions and answers.

The Dairy Cattle Day, November 1, features topics such as the Wintario dairy project, drug use, hormonal therapy in the post partum period, bovine anesthesia and restraint, and an evaluation of oral electrolyte formulations and therapy.

Swine stress syndromes, intersex, the role of genetics in disease resistance, a case study of *Haemophilus*, porcine ear necrosis and Wintario project production results are some of the subjects to be discussed November 8.

At the Beef Cattle Day, November 15, lecture topics include drugs in beef cattle, progress in research on cancer eye, organophosphate poisoning, studies in twinning and a survey of reproductive performance and calf survival in beef herds.

The fee of \$45 each day includes lunch, refreshment breaks, parking and seminar materials. Pre-registration is required. Details: Continuing Education, Ext. 3956. □

## VISITING PROFESSOR

### Maury Bredahl

Dr. Maury Bredahl, associate professor, University of Missouri, will be a visiting professor in the School of Agriculture Economics and Extension Education during the week of November 7 to November 11.

Dr. Bredahl received his Ph.D. from the University of Minnesota in 1974, and, after spending four years working for the United States Department of Agriculture, joined the University of Missouri in 1978.

Dr. Bredahl has conducted research in the areas of agricultural trade, agricultural productivity and the impact of agricultural research, and agricultural price and policy analysis.

Dr. Bredahl will be presenting the following seminars: Monday, November 7, "Market Structure, Macroeconomic Forces and Agricultural Trade: Implications for U.S. Agricultural Policy," at 2:30 p.m. in Room 442 of the University Centre; Tuesday, November 8, "Exchange Rates and the Common Agricultural Policy," at 2:30 p.m., in Room 332 of the University Centre, and, Thursday, November 10, "Impact of Exchange Rates, World Inflation and Income on U.S. Agricultural Trade," at 2:30 p.m. in Room 332 of the University Centre. The November 7 seminar is for a general audience.

Dr. Bredahl will be in Room 314, SAEED, during his



### Lance Perryman

Dr. Lance Perryman, associate professor in the department of veterinary microbiology and pathology, Washington State University, will be visiting the Department of Pathology until November 4 on the Vice-President's Short-term Visiting Professor Program.

His seminar schedule is as follows: Tuesday, October 27, 11:10 a.m., Room 220, Pathology, "Production and Characterization of Monoclonal Antibodies for Diagnostic and Investigative Work"; Monday, October 31, 11:10 a.m., Room 220, Pathology, "Review of Interesting Cases I Have Seen"; Wednesday, November 2, 12 noon, Room 508, Pathology, "The Training of Veterinarians at Washington State University," and, Thursday, November 3, 11:10 a.m., Room 220, OVC, "Graduate Training in Pathology at Washington State University."

Dr. Perryman may be contacted at Ext. 2681. □

## University Canada

Former McMaster University president Arthur Bourns has joined the Natural Sciences and Engineering Research Council of Canada as visiting research officer.

Dr. Bourns will work closely with NSERC president Gordon McNabb to develop the framework for the Council's next five-year plan.

## Math/Stats professor visits China

One of two Canadian members of a delegation of 60 North American educators who visited the People's Republic of China at the invitation of the Chinese Mathematical Society in June this year was Professor Rod Gentry, Mathematics and Statistics. The mission was organized by Dr. D. Bushaw of Washington State University and hosted in China by the Chinese Association of Science and Technology.

The delegation visited six regional centres in three weeks — Beijing, Shanghai, Wuxi, Suzhou, Hangzhou and Guangzhou. They met with research mathematicians, university and college teachers and students, officials of the ministry of education in Beijing, members of the regional mathematical societies and middle school mathematics teachers.

China appears to realize the importance of rebuilding its educational system as rapidly as possible, according to Prof. Gentry. In mathematics, they are trying to move away from a rigid system based on old Russian models towards some of the flexibility offered by North American curricula. "In doing so, they face the same type of problems we face — how to eliminate courses previously considered essential; how to strike a balance between pure and applied mathematics and how to determine what really is needed in early curricula in the key middle schools that prepare university-bound students."

The Chinese were very interested in Prof. Gentry's accounts of the Guelph Mathematics Clinic which he discussed with the Shanghai Mathematical Society and the

*Prof. Gentry, centre right, at Fudan University with, left to right, Zhou Jing-Qiu vice-president academic, Fudan University, Professor Wang Shi-an, ma the mathematician, University and Dr. Bushaw*



Institute of Applied Mathematics in Beijing, China's top applied research institution. He met Dr. Gui Xiangyun (Kwei Hsiang Yuin), the sister of Mathematics and Statistics professor Arthur Kwei, and learned of the recent work of her operations research group.

Twelve members of the delegation were invited to give formal talks and Prof. Gentry spoke on "Mathematics Curriculum for Biological and Health Science" to the Beijing Mathematical Society and "Mathematical Modelling for Mathematics Majors" to the Hangzhou Mathematical Society.

Prof. Gentry's trip led to the establishment of a number of personal contacts and the possibility of strengthened future relationships between the University and the Chinese academic community. In particu-

lar, Prof. Gentry's meeting with Professor Yang-Yi-quan, Mathematical Centre of Zhejiang Agricultural University, Hangzhou, is expected to lead to the future translation into the English language of Professor Yi-quan's applied mathematics text *Ecological Modelling*.

As a result of the visit, a Chinese graduate student from Xiamen University, Xiamen, will study at Guelph in the graduate applied mathematics program for the winter semester, beginning in January, says Prof. Gentry.

Prof. Gentry is also preparing an updated bibliography of important Western applied mathematics texts for Chinese mathematicians who have had little access to the developments which have taken place here since the Cultural Revolution. □

## Writers' Union head cautions against "reprography"

Writers in all parts of Canada exchanged their pens for pickets this fall to demonstrate support for the principle of "Payment for Public Use" (PPU) — a yet-to-be-introduced measure which would compensate writers for circulation of their books by public libraries.

Margaret Atwood wrote an amusingly ironic poem, Robertson Davies penned a furious letter, Francis Fox, federal minister of Cultural Affairs indicated his approval, the Canada Council applauded, all political parties came out in favor and librarians across the land were in accord. The government is now looking for \$4 million a year to finance the program.

The organizer of this nation-wide demonstration was English Language and Literature professor, Eugene Benson, chairman of the Writers' Union of Canada and the 11th person to hold the position in succession to such luminaries as Margaret Laurence, Margaret Atwood, Timothy Findley, Graeme Gibson and June Callwood.

The Writers' Union was founded in 1972 for the advancement of the common

interest of Canadian writers; to foster writing in Canada, improve relations with publishers, exchange information among members and safeguard their freedom to write and publish.

"The prestige of Canadian literature today," says Prof. Benson, the author of a number of novels, plays, libretti and textbooks, "was never higher, and no institution in Canada has been more vigorous in recent years in its support of Canadian writers than the University of Guelph."

The Department of English Language and Literature is an important centre for the publication of a number of journals devoted to Canadian writing including *Canadian Children's Literature*, edited by Professors Elizabeth Waterston and Mary Rubio, *Canadian Drama*, edited by Professor Benson, and *World Literature in English*, edited by Department Chairman, Douglas Killam.

Professors Don Daymond and Leslie Monkman have recently published a two-volume anthology of Canadian writing which, says Prof. Benson, is rapidly becoming the standard text in Canadian universities.

The Writers' Union is becoming increasingly concerned with "reprography" — a new word, and, unless authorized, a new criminal offense. Prof. Benson notes that both the University of New York and the University of Alberta face legal action for the illegal production of multiple photocopies of copyright material.

"Under the doctrine of 'fair use,' faculty members are free to excerpt and photocopy short passages from published works for their own use, but this does not extend to running off large numbers of copies for use in classrooms and elsewhere. Such practices contravene the Berne Convention — the world copyright agreement to which Canada is a signatory — and clearly defraud both the author and the publisher," he explains.

Further clarification of the law governing compensation for the use of "reprographic" material is expected to follow current court actions. In the meantime, Prof. Benson advises that permission should be obtained from the publisher before any such multiple copies are made. □

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## EXCURSIONS AND SERVICE ACTIVITIES

### Travels and Seminars

Professor **M. Andersen**, French Studies, Languages and Literatures, has been appointed correspondent in charge of the "Chronique Quebecoise" of Poetry Canada Review.

Prof. Andersen, was recently interviewed on the subject of the Ontario Status of Women Council, for "Toronto Magazine" a Radio Canada program, as well as for the television program "Ce soir en Ontario," of Radio Canada.

Dr. D.A. Barnum, Veterinary Microbiology and Immunology, attended the 22nd International Veterinary Congress in Perth, Australia and presented a poster co-authored by B. Brooks on "The Role of *C. bovis* in Preventing Bovine Mastitis Caused by Staph. aureus and Str. agalactiae."

At the same meeting, he participated in a symposium on Antibiotics in Animal Medicine and Public Health" organized by the World Veterinary Epidemiology Society, at which he presented a paper, "Antibiotic Susceptibility Tests of Salmonella species (1970-1983)."

Professor Fred Eidlin, Political Studies, attended the annual meeting of the American Political Science Association held in Chicago. He presented a paper, "Social Science, Social Engineering, and Public Policy," and served as a commentator on three papers as part of a panel, "Philosophy of Political Science and Political Philosophy."

Professors C.G. Gray, **J.L. Hunt** and J.D. Poll, Physics, attended and presented review papers at the NATO Advanced Research Workshop "Phenomena Induced by Intermolecular Interactions" at Bonas, France.

Professors C.G. Gray and D.E. Sullivan, Physics, and postdoctorate research fellows C.G. Joslin, S. Singh and J. Ram attended The Cornell Symposium on Liquids held in Ithaca, N.Y. Prof. Gray presented a paper "Effective Central Potentials for Molecular Fluids."

**Professor Neal R. Johnson**, Languages, attended a wine and cheese reception in Arts House where he discussed the play Tartuffe by Moliere.

Following this discussion, the students attended the production of Tartuffe at the Stratford Festival. The excursion was co-sponsored by the College of Arts and the students of Arts House.

Consumer Studies, **Professor Keith Slater**, who is on sabbatical leave, attended the International Conference on Medical and Biophysical Aspects of Protective Clothing in Lyon, France. He presented two papers: "Bacterial Transfer Through Textile Materials," co-authored with **Andrea Hurren**, an undergraduate summer student in the textile and clothing option of the Department; and "Assessment of the Protective Ability of Textile Products." The research for both papers was funded by the Department of National Defence, Ottawa.

Prof. Slater, also addressed two Rotary Clubs in France on "Des problems d'aujourd'hui au Canada."

**Professor T.A. Watts**, Consumer Studies, was a visiting lecturer at the University of Bremen, West Germany, where he gave a series of lectures and seminars on food consumption study methodology, marketing research and the process of product development.

Dr. **A. Singh**, Biomedical Sciences, was invited to co-chair the session on digestive and urinary systems at the annual meeting of the American Association of Veterinary Anatomists, held at Cornell University, Ithaca, New York. Dr. Singh also presented a paper, "Morphology of the Liver of Growing Pigs Fed Tower Rapeseed Oil," at the annual meeting of the State College of Veterinary Medicine, Ithaca, New York. The co-author of the paper was Mr. E. Shahidi.

**Professor G.P. Lumis**, Horticultural Science, presented an invited paper, "Making Plants a Way of Life," at the annual convention of the American Association of Nurserymen held in Montreal. Prof. Lumis and **Professor V. Souza Machado**, were awarded the 1983 Centennial Research Grant from the Horticultural Research Institute at a recognition luncheon held during the convention.

**Professor Padraig O'Cleirigh**, Languages and Literatures, attended the Ninth International Conference of Patristic Studies held in Oxford, where he read an invited paper, "The Soul as Self in Clement and Origen."

**Dr. A. Singh**, Biomedical Sciences, contributed a poster "Chronic Testicular Toxicity of Photomirex or Mirex-A Light and Electron Microscopy Study" to the 22nd World Veterinary Congress held in Perth, Australia. The co-authors of the presentation were **Dr. V.E. Valli**, Pathology, **Dr. M.K. Bhatnagar**, Biomedical Sciences and **Dr. D.C. Villeneuve**, Health Protection Branch, Ottawa.

## ADDITIONAL OPPORTUNITIES

**Technician**, Environmental Biology. MTS IV. Salary Range: \$338.98 - \$486.06.

**Technician**, Botany and Genetics. MTS IV. Salary Range: \$338.98 - \$486.06.

**Technician**, Animal and Poultry Science. Arkell Feed Mill. MTS IV. Salary Range: \$338.98 - \$486.06.

**Technician**, Dean's Office, College of Biological Science. Grant Position. Salary Range: \$287.53 - \$412.50.

**Senior Systems Analyst**. Salary commensurate with qualifications and experience. Open to on-campus employees only.



THE UNIVERSITY OF GUELPH is the most active Canadian university in CIDA-funded international development projects, according to the annual report of the Association of Universities and Colleges of Canada.

A FIVE-MEMBER TASK FORCE has been set up to study the need for protecting the occupational health and safety of people working in agriculture.

The task force, chaired by Prof. N.R. Richards, University School of Rural Planning and Development, will investigate and report to Ontario Minister of Labour, Russel H. Ramsay, and Ontario Minister of Agriculture and Food, Dennis Timbrell, on the health and safety of farmers, farm workers and members of farm families engaged in farm work.

At present, farmers are not covered under the Occupational Health and Safety Act.

THE THURSDAY NOON HOUR concert features "Badinage" with Stephen Chenette, trumpet; Ivan Hammond, tuba, and Susan Chenette, piano on Thursday, October 27 at 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 include "Partita II" for trumpet, tuba and piano by Lothar Klein, commissioned with a grant from the Ontario Arts Council; "Cadenzas" and "Finale" by Gary Kulesha for trumpet, tuba and piano; "Morning Song" for tuba and piano by Roger Kellaway, and "Animal Ditties" by Anthony Plog with poems by Ogden Nash for narrator, trumpet and piano. The second program at 1:10 p.m. will consist of two works for trumpet, tuba and piano: D. Manuel Garcia's "In Nothing Hope," and "Sonata (1977)" by Arthur Frackenpohl; Thomas Beversdorf's "Of Walruses, Cheesecake and Morse Code" for tuba and piano, and "Animal Ditties II" by Anthony Plog (poems by Ogden Nash) for narrator, trumpet and piano.

SURPLUS SALES, Blackwood Hall, has the following for sale: one rack of rabbit cages on wheels, eight cages/rack, 15" x 11" x 20"; one rack of guinea pig cages on wheels, 12 cages/rack, 13" x 10½" x 18", SD #264, Departmental purchase only; one DAVONG 12 mb, Hard Disc Drive/Master Storage Unit with APPLE II interface, SD #316, Departmental purchase only; assorted dictaphone equipment, open to general public; assorted adding machines, open to general public, and 14 cash registers, SD #220, open to general public.

THE SURPLUS SALES Department, Blackwood Hall, has the following items available for sale on a closed bid basis: one electric typewriter and two manual typewriters, under SD #298 and #292, open to the general public. Bids will close at 4 p.m. on Friday, November 4. Equipment is available for viewing in the Surplus area, south Blackwood Hall, Trent Lane.

THE STEWART GALLERY, Campus Estates Plaza, is pleased to announce "Autumn '83," a showing of new watercolors by Professor Allan Austin, English Language and Literature, until October 29.

THE ANGLICAN EUCHARIST, Wednesdays at noon, has moved from Johnston Hall, Room 158 to University Centre, Room 301, beginning Wednesday, November 2.

DR. DAPHNE A. ROE, division of nutritional sciences, Cornell University, will address the topic "Human Studies in B Vitamin Requirement" in a special campus lecture Monday, October 31. Dr. Roe will speak in Room 141, Animal Science/Nutrition building at 4 p.m.

The lecture is one of a series of special lectures sponsored by Nutrition.

AN EXHIBIT entitled "A Montreal Collection — Gift from Eleanor and David Morrice," will be presented at The Macdonald Stewart Art Centre until December 4. It pays homage to the enormous contribution to art — both its dissemination and its creation — made by David Rousseau (1903 to 1978) and Florence Eleanor (1901 to 1981) Morrice, the nephew and niece of Montreal artist James Wilson Morrice, who amassed this magnificent collection during their lifetimes.

THE DEPARTMENT of Geography hosted a visit by members of the Netherlands provisional commission for environmental impact assessment. Members of the commission are in the final stages of assisting in the redrafting the environmental protection (general provisions) bill for the Netherlands government and were visiting federal and provincial government agencies in Canada.

Guelph was selected as one of two universities for discussions concerning the evaluation of Canadian legislation and the effectiveness of scientific input to CIA. Meetings were held with Professors Michael Moss, Reid Kreutzwiser and John FitzGibbon, Geography, Professor Tom Nudds, Zoology, Professors Bev Kay and Peter Groeneveld, Land Resource Science and Professors Stephen Rodd and Willem van Vuuren, School of Agricultural Economics and Extension Education.

SUMMER 1984: If your travel plans for the summer of 1984 include a visit to London, England, accommodation will be available for rent at Guelph-London House, 105 Albert St., London, England, a residence owned and operated by the University of Guelph. Accommodation will be available for single rooms, double rooms (two single beds) and self-contained apartments for groups up to five persons.

For further information, contact J.S. Wills, Property Management, University Centre, giving details of your plans and every effort will be made to assist you in your accommodations in London.

A CONCERT FOR PEACE, featuring Murray McLauchlan and a 70-voice choir will be presented by the University Centre and Central Student Association Saturday, October 29. The concert has been scheduled in conjunction with the international conference "Strategies for Peace and Security in a Nuclear Age" which is being held on campus.

Tickets, \$7.50, general admission and \$6.50, students and seniors, may be purchased from the box office, courtyard, University Centre. All seats are reserved.

ONE OF SESAME STREET'S most popular residents, Maria, will travel to Guelph soon. Children will be entertained at War Memorial Hall Saturday, November 5 at 2 p.m. and 4 p.m.

Tickets for "Maria of Sesame Street," sponsored by the University Centre, are \$4.50 at the box office in the University Centre.

## Music modules are life-savers

An innovative response by the Department of Music to the loss of practice rooms last year has led to the installation of two free-standing modules in a corridor on the ground floor of the MacKinnon building.

According to Professor Stanley Saunders, Director, the Wenger Music Modules are virtually standard equipment in North American universities and music academies.

"Guelph's modules were custom-designed to meet our specifications and to blend architecturally with the immediate environment. They are sound-proof, air-conditioned and wired for possible use as recording studios."

Patricia Law, administrative assistant, notes that the demand for the music modules for teaching and practice keeps them occupied on a full-time basis. Faculty teaching has first call on the use of the modules, followed by students taking academic music courses and non-credit applied music students. Finally, consideration is given to other musically-inclined individuals on campus who are looking for practice space. □

## Planning for 1984 Learneds

About 90 people involved in the organization and planning of the 1984 Learned Societies Conference attended a national planning meeting at the University's Arboretum Centre recently. Next year, from May 26 to June 14, the University of Guelph will host over 4,000 delegates from approximately 60 of Canada's most prestigious academic societies in the arts and social sciences.

Because of the number of societies and delegates to attend in 1984, local representatives and program organizers are urged to begin booking rooms and banquet facilities, organizing mailing lists, and arranging transportation.

A conference secretariat has been set up in the MacKinnon building, Room 054. Members of the University community are invited to visit the office or contact Dr. Earl MacNaughton, conference co-ordinator, Ext. 2529. □

## SPOKES

The men's volleyball Gryphons play three home league matches this semester beginning with the Waterloo Warriors Friday, November 4, 8 p.m. The other two home matches are against Wilfrid Laurier, Wednesday, November 9, 8 p.m., and Brock University, Friday, November 25, 8 p.m. The Gryphons will also host a 16-team co-ed tournament, Saturday, November 26.

The Gryphon women's team also has three home game matches and the November 26 tournament on their fall schedule. The women's matches are Tuesday, November 8, 7:45 p.m. against the University of Windsor, Wednesday, November 9, 8 p.m. against Wilfrid Laurier and Friday, November 26, 8 p.m. against Brock University.

# Next Week at Guelph

## THURSDAY, 83 10 27

**Noon Hour Concert** - STEPHEN CHENETTE, IVAN HAMMOND & SUSAN CHENETTE, trumpet, tuba & piano, 1210 and 1310, MacK107.  
**Worship** - CATHOLIC MASS, 1200, chapel, level 5, UC.  
Conference - PEACE AND SECURITY IN A NUCLEAR AGE, 2030, PCH, UC.  
Meeting - BOARD OF GOVERNORS, 1000, UC424.  
**Apiculture Club** - AFRICANIZED BEES IN COLOMBIA, SOUTH AMERICA, M.V. Smith, 1710, Graham Hall, Rm. 200.  
**Child and Family Services Workshops** - ADULTS CONCERNED ABOUT INSTITUTIONALIZATION OF AN ELDER IN THEIR FAMILY, 1830, Gerontology Research Centre, Macdonald Hall.  
**Writing Centre Workshop** - HOW TO WRITE AN ESSAY, 1830, Rm. 359, McLaughlin Library.  
Inter-Varsity Christian Fellowship - LORD TEACH US TO PRAY: PRAYERS OF THE BIBLE, 1845, ASN141.  
Seminar - SADHANA: A WAY TO GOD, 2000, MacK224.  
Visiting Professor - PRODUCTION AND CHARACTERIZATION OF MONOCLONAL ANTIBODIES FOR DIAGNOSTIC AND INVESTIGATIVE WORK, L. Perryman, Washington State, 1110, Path220.

## FRIDAY, 83 10 28

**Friday Flicks** - LORDS OF DISCIPLINE, 1930 and 2130, PS105.  
**Worship** - FACULTY CHRISTIAN FELLOWSHIP, 1200, Johnston Hall 157.  
Faculty Club - DINNER DANCE, 1830, members only, Ext. 8578 for tickets.  
ICS - ADVANCED MICROCOMPUTER GRAPHICS, G. Blair, 1030 and 1330, Ext. 3046 to register.  
Audubon Wildlife Films - AFRICAN ADVENTURES and ADVENTURES IN THE AMERICAN WEST, Tom Diez, 2000, WMH, tickets at UC box office.  
Chemistry Seminars - CHEMICAL IONIZATION MASS SPECTROMETRY: ANALYTICAL APPLICATIONS OF ION/MOLECULE REACTIONS, Dr. A. Harrison, U. of T., 1500, CM160.

## SATURDAY, 83 10 29

**Continuing Education** - EFFECTIVE MEETING MANAGEMENT, M. Waldron, 0900; HOME GARDENS: SOIL MANAGEMENT AND COMPOSITION, Prof. Hawlin, 0930, Ext. 3956 to register.

## SUNDAY, 83 10 30

**Hollyhock Nites** - MONTY PYTHON: THE MEANING OF LIFE, 1930, WMH.  
**Worship** - ANGLICAN/UNITED, 1600, UC441; CAMPUS CHURCH SERVICE, 1030, PS113; CATHOLIC MASS, 1000, CM200.  
**Guelph Cycling Club** - ST. GEORGE, 1000, UC.  
International Cinema - KING OF HEARTS, 2000, PS105.  
Sunday Afternoon Walks - WITCHES' CAULDRON, 1400, J.C. Taylor Nature Centre.  
Lecture - FLORENTINE TOWNS IN THE TUSCAN COUNTRYSIDE, D. Friedman, M.I.T., 2000, MacK114.  
Guelph Field Naturalists - FALL PHOTOGRAPHY OUTING, 1300, OVC parking lot.

## MONDAY, 83 10 31

**The University and Nuclear Arms** - THE ACADEMIC AND NUCLEAR ARMS, H. Hurwitz, 1210, UC442.  
Staff Development Opportunities - RADIATION PROTECTION SEMINAR SERIES, 1530, PS202, Ext. 3058 to register.  
Pub - HALLOWE'EN PUB, 2000, PCH.  
Lecture - HISTORICAL SOCIETY, 1830, UC103.  
ICS - THE COMPUTER AS AN ADMINISTRATIVE TOOL, P. Jones, 1330, Ext. 3046 to register.  
Lecture - HUMAN STUDIES OF B VITAMIN REQUIREMENTS, Dr. D. A. Roe, Cornell, 1600, ASN141.  
Visiting Professor - REVIEW OF INTERESTING CASES I HAVE SEEN, L. Perryman, Washington State, 1110, Path220.

## TUESDAY, 83 11 01

**Worship** - CATHOLIC MASS, 1700, chapel, level 5, UC; CHRISTIANITY AND MARXISM, 1700, UC332.  
ICS - MICROCOMPUTER GRAPHICS, R. Creedy, 1330, Ext. 3046 to register.  
Classes - CITIZENSHIP ORIENTATION, 1900, Guelph Multicultural Centre, 128 Woolwich St., Suite 203.  
**Our World** - CHILE: 10 YEARS OF MILITARY DICTATORSHIP, 1210, UC442.  
**College Women's Club** - FABULOUS FALL FASHIONS, 1930, Puslinch Community Centre, Aberfoyle.  
Meeting - MICROCOMPUTER CLUB, 1900, ICS212.  
Physics Colloquium - ANAESTHESIA AND NMR, Dr. Ian Smith, NRC, 1600, PS113.  
**Child and Family Services Workshops** - PARENTS OF GAYS, 2000, Macdonald Hall, Rm 154.  
Continuing Education - GROWING GRAPES, W.D. Evans, 1900; DAIRY CATTLE HEALTH RESEARCH REVIEW DAY, 0830, Cutten Club, Ext. 3956 to register.  
**Workshop** - REPORT WRITING, 1830, Rm. 359, McLaughlin Library.  
Chinese Students' Association - PRE-CHRISTMAS SALE, 0900, UC.

## WEDNESDAY, 83 11 02

**Worship** - CHRISTIAN DOCTRINE CLASS, 1700, UC334; IMMANUEL FELLOWSHIP, 1900, AS141; ANGLICAN EUCHARIST, 1210, UC301; CATHOLIC MASS, 1700, chapel, level 5, UC.  
Biochemistry Seminars - BID-PRODUCTION OF USEFUL PRODUCTS USING BIOTECHNOLOGICAL PROCESSES, M.Moo-Young, Waterloo, 1200, PS222.  
Captain's Series - LIVING TOGETHER: RESOLVING ROOMMATE HASSLES, 1210, UC335.  
Staff Development Opportunities - BACK CARE: A TOTAL PROGRAM, 1315, UC442, Ext. 3058 to register.  
Visiting Professor - THE TRAINING OF VETERINARIANS AT WASHINGTON STATE UNIVERSITY, L. Perryman, Washington State, 1200, Path508.  
Debate - RESOLVED THAT PAID PARENTAL LEAVE BE EVERY WORKING COUPLE'S RIGHT, J. Boehnert and H. Lehman, 1930, UC103.

## THURSDAY, 83 11 03

**Noon Hour Concert** - COENRAAD BLOEMENDAL & JOEL QUARRINGTON, cello and double bass, 1210 and 1310, MacK107.  
**Worship** - CATHOLIC MASS, 1200, chapel, level 5, UC.  
Faculty Association - EXECUTIVE MEETING, 1200, Faculty Club Board Room, level 5, UC.  
**Apiculture Club** - AGROFORESTRY AND APICULTURE, G.F. Townsend, 1710, Graham Hall, Rm. 200.  
Meeting - ONTARIO WEED COMMITTEE ANNUAL MEETING, Ext. 2513 for details.  
Inter-Varsity Christian Fellowship - HEARING AND DOING THE WORD OF GOD, R. Middleton, 1845, UC442.  
**Staff Development Opportunities** - MANAGING UNDERPERFORMANCE, 0900, UC442, Ext. 3058 to register.  
Visiting Professor - GRADUATE TRAINING IN PATHOLOGY AT WASHINGTON STATE UNIVERSITY, L. Perryman, Washington State, 1110, Path220.



### Wanted

Former faculty member and family require temporary residence, 6-12 months, starting Dec. 1., 836-5450; Northstar Horizon computer with DD disks for spare parts, 3223 or 3885; brownie uniform, size 8-12, 821-2087; used Volker-Criag or other terminal, contact Jill, 2288; person with car for car pool from Mississauga, Square One area, arrive Guelph 0815, leave 1700, (416) 276-1756 or contact Nancy, 2495.

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