

guelph



UNIVERSITY NEWS BULLETIN

Academe encourages East-West dialogue

Korean Airline Flight 007 was shot down and arms control negotiations between East and West seem to be going down in flames along with the plane. The crisis brought home, once again, that man is at a critical stage where it is necessary to negotiate arms control measures today or suffer incredible destruction tomorrow.

Political Studies professor Henry Wiseman, a former director of peacekeeping programs at the international Peace Academy in New York and member of Ottawa's Defence Research Board, is co-ordinating an international conference to examine arms control issues entitled, "Strategies for Peace and Security in a Nuclear Age," at the University of Guelph October 27 to October 30.

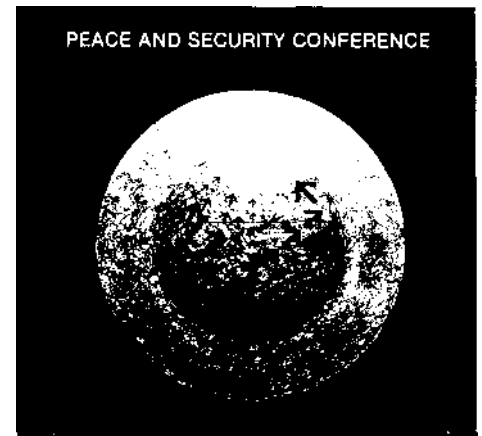
The organization for the conference has been going on for months. However, suddenly, it is becoming a means by which Canada can help to revive the dialogue between East and West in a public, academic forum. The Russians are coming to the conference and the Americans are coming. NATO, the United Nations, West Germany's Greens Party, NGOs (non-government organizations), religious and educational institutions will all be represented. Ottawa is sending people from the Departments of External Affairs and Defence, and members of Parliament from all three parties.

The mix is a volatile one, notes Prof. Wiseman. However, he emphasizes that the University, which has a tradition of objective, unbiased attitudes, is in a unique position to foster a careful and balanced examination of the relevant facts and issues.

The Soviet delegation includes Dr. Vladimir Gantman, Moscow Institute of World Economic and International Relations, and Drs. Pavel Podlesnyi and Yuri Ivanov, U.S. and Canada Institute of Moscow. American representatives include General Brent Scowcroft, chairman of U.S. President Ronald Reagan's MX Commission in Washington, D.C. and Eugene Carroll, deputy

director, Centre for Defense Information, Washington, D.C., a former Rear Admiral, U.S. Navy and director of U.S. operations in the Middle East and Europe.

Other speakers are Roland Vogt of West Germany's controversial Greens Party and Sweden's Inga Thorsson, Under-Secretary of Foreign Affairs and Chairman, UN Group of Governmental Experts on the Relationship Between Disarmament and Development. The Honourable Walter Gordon,



chairman, Canadian Institute for Economic Policy, a former federal finance minister, and Archbishop Edward Scott, Primate of the Anglican Church of Canada, are among the Canadian representatives.

Dr. Kinhide Mushakoji, well-known as a peace researcher and a vice-rector of United Nations University, Tokyo, is presenting the keynote address entitled, "The Current Crisis in Arms Control." He will be introduced on page 2.

National Universities Week proclaimed

Mayor Norm Jary, right, officially proclaimed National Universities Week for the City of Guelph in front of the largest crowd ever in Alumni stadium for the Homecoming game Saturday. Left is Acting President, Dr. Howard Clark, and, in the background, the Gryphons' new mascot, "Griff". Universities across Canada are throwing out the welcome mat this week to celebrate National Universities Week. With the theme, "We have the Future in Minds", universities are demonstrating their essential role in community, regional and national development. Guelph's events are listed in "Next Week at Guelph". The answers to the Trivia Quiz in last week's News Bulletin are listed on page 7. National Universities Week, October 2 to October 8, is a joint endeavor of the Association of Universities and Colleges of Canada (AUCC) as well as provincial and regional associations of universities.



OAC Dean awarded gold medal

OAC Dean Freeman McEwen, received the Gold Medal Award of the Entomological Society of Canada during its annual meeting in Regina October 3. The annual award recognizes outstanding contributions by a Canadian scientist to the study of entomology or to the affairs of the Society.

Dean McEwen was cited for a range of achievements including his "outstanding contributions" to research and scholarship; application of scientific and technological expertise; his advisory roles to provincial and national agencies, industry and the general public; his administrative skills, and, his extensive service to the Society.

In his research efforts, Dean McEwen has focused on achieving practical solutions to problems facing the agricultural and horticultural industries. While recognizing the practical need for continued limited use of pesticides, he has stressed the introduction of programs of management that would minimize the need for pesticides. These efforts have included his fostering of research on biological controls and the establishment of a Biological Control Laboratory at Guelph to stress research and large scale field trials of various biological control methods.

Conference continued from page 1.

duced by Dr. George Ignatieff, president, United Nations Association in Canada and Chancellor, University of Toronto.

Panel subjects focus on arms control and alternate modes of security, practical measures for de-escalation of the arms race, costs and consequences of the arms race, deterrence, the search for parity, and medical, psychological and environmental implications of nuclear war.

Prof. Wiseman expects the conference to do nothing less than affect government policy. His co-ordinator, Guelph History professor Gunnar Boehnert, is equally emphatic. "Talk is certainly not enough. Ordinary citizens, many of whom are coming to the conference, must realize that they can exert influence on government, and then organize in order to do so." A former RCAF pilot, Prof. Boehnert is a director of the Atlantic Council of Canada and a consultant for NATO.

To ensure that the impact of the conference is felt in Ottawa, a delegation of conference speakers is travelling to the capital to address parliamentarians, key civil servants and NGOs Monday, October 31. At the end of the Guelph conference, more than a dozen workshops are being held to allow participating interest groups and organizations to meet and develop strategic follow-up plans. Topics include how to influence Canadian government policy, how to develop East/West dialogue among citizens, and the role of universities in teaching and research.

Details: Continuing Education Division, Room 103, Johnston Hall, Ext. 3956. □

Dean McEwen's concern for practical application of his research has led to the formulation of integrated pest management programs for a number of important crops. He is co-author of *The Use and Significance of Pesticides in the Environment*, a textbook that is widely used.

As a founder and acting director of the Canadian Centre for Toxicology, Dean McEwen has worked to ensure that Canada would have a major centre dedicated to providing research and post-graduate training in all matters related to toxic agents, whether of agricultural or industrial origin.

Dean McEwen is a past-president of the Entomological Society of Canada and of the Canadian Pest Management Society. He has also been a member or chairman of many provincial, national and international committees related to insect pests, toxicology and the environment. □

GRADUATE NEWS

Sarah McNeil

The final oral examination of Sarah I. McNeil, Biomedical Sciences, a candidate for the M.Sc. degree, is Wednesday, October 12, 1 p.m., Room 309, Biomedical Sciences, OVC.

The subject of her thesis is "Morphological Effects of Methylmercury Chloride on the Testicular Cells of Pekin Ducks." Dr. M.K. Bhatnagar, Biomedical Sciences, is Ms. McNeil's supervisor. □

Convocation

Fall Convocation is Friday, October 7. The installation of Guelph's fourth Chancellor, William A. Stewart, will take place at the beginning of the morning ceremony at 10 a.m.

At the afternoon ceremony, at 2:30 p.m., Dr. F. Campion Stewart, cell biologist and professor emeritus of Cornell University, will receive an Honorary Doctor of Science degree.

At the morning ceremony, 118 candidates will receive graduate degrees and 78 will receive Bachelor of Science degrees. The Chancellor will give the Convocation address.

At the afternoon ceremony, which will be addressed by Dr. Stewart, 179 graduands will receive Bachelor of Arts degrees and 58 will receive other undergraduate degrees.

Following the afternoon ceremony, tea will be served for the graduates and their friends in Peter Clark Hall of the University Centre. There will be no tea following the morning ceremony. □

FOCUS



Anglican minister says lots to talk about

Reverend Dorothy Barker, an Anglican priest, has come to the campus with a joint appointment by the Anglican and United Churches. A widow with five grown children she has strong feelings of rapport with young adults.

"These are trying times," she says. "Society is undergoing drastic changes and personal value systems everywhere are being re-examined, as indeed they should be. Never was it more necessary to clarify where we stand on such issues as nuclear disarmament, the environment, Third World poverty and our own economy."

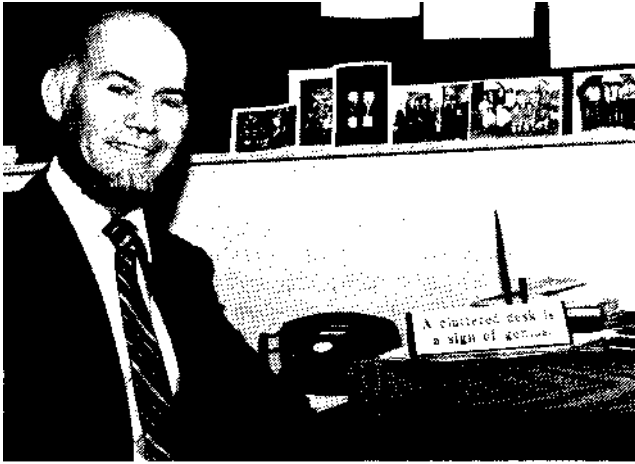
Mrs. Barker insists that the Church has a vital role to play in the on-going social debate. "Personal faith, that private religious centre each of us needs in our life, remains as important as ever, but we are also part of a greater whole with responsibilities towards the world community'

Asked if she saw her campus chaplaincy as primarily directed towards women, Mrs. Barker replied that there are indeed matters which women may feel more comfortable discussing with another woman, especially in the area of self-identity, "but men, too, are experiencing a raising of their own consciousness and I think we shall find a great deal to talk about."

Mrs. Barker sees her role as both private and public. "Much of my contact will be with people — and that includes staff and faculty members as well as students — on a one-to-one basis, but I will also be serving as a focus for formal worship and I would expect to initiate discussion on matters of social concern. I am very much interested in inter-faith dialogue. For an ecumenist like myself, the presence here on campus of adherents to all the world's religions is very stimulating!"

Mrs. Barker may be reached at Ext. 8909. □

Prestigious award for innovation will be poured back into research



Like Alexander Graham Bell and the team of Frederick Banting and Charles Best, Crop Science Professor Ken Kasha may join the ranks of Canada's best known innovators.

The winner of the second annual Ernest C. Manning award for his research into haploid barley breeding (See *News Bulletin* 83 09 29) says Canadian innovations need more recognition.

"The Manning Award's sole objective is to promote innovation in Canada," he says. "All nominees for the award get publicity and recognition in keeping with the aim of the award, which is to try to counteract some of the negative impressions that no one in Canada develops innovations."

The \$75,000 award will be poured back into research, says Prof. Kasha, because so many people were involved. "I have no plans yet for purchasing equipment, but I would like to help graduate students to be able to travel to meetings."

Prof. Kasha first became interested in plant genetics when he was an undergraduate at the University of Alberta in the 1950s. He has since worked with barley, alfalfa, wheat and triticale but of these, barley has been his chosen area for haploid research.

The Bulbosum method of haploid production is the specific area of research for which Prof. Kasha received the Manning Award. Haploids are cells with half the normal complement of chromosomes. The Bulbosum method takes its name from the fact that it resulted from a cross between barley (*Hordeum vulgare*) and pollen from a wild species of barley (*Hordeum bulbosum*).

A high frequency of fertilization of the barley egg cells occurs, resulting in embryo development, explains Prof. Kasha. However, the bulbosum chromosomes are eliminated by this process, leaving only barley traits in the embryo. The embryos are then removed from the seed and cultured to produce a haploid barley plant. Chemical treatments can induce the chromosomes to double back to the normal complement or diploid state. This second set of chromo-

somes produced with the haploid technique are genetically identical to those of the original haploid. The result is the creation of a variety with complete uniformity in traits such as height, maturity, yield levels and resistance to disease.

"No one knows how this works," admits Prof. Kasha, "but the mechanism is very sensitive because of the close genetic balance in the cross-breeding that influences the elimination of the chromosomes."

In plant breeding, two strains are usually crossed to create a hybrid. Researchers then proceed with five or six generations of inbreeding to achieve uniformity in the traits. With spring barley, this can take two to three years while winter barley takes four to five, says Prof. Kasha.

Using the haploid technique, this process only takes one generation. Because the second set of chromosomes is an exact replica of the first set, a new variety can be produced and licensed for sale to farmers in five or six years — a process that usually takes 10 to 12 years.

Most barley breeders are not using the Bulbosum haploid technique yet because it requires a controlled environment and technical expertise. It has, however, created a great deal of competition among people using conventional breeding techniques who are consequently trying to reduce the breeding time significantly. "The haploid system is not really cutting the time in half anymore but it might be saving two or three years," he adds.

Prof. Kasha's haploid research also has implications for world trade. Canada produces 10 million acres of barley a year, second only to wheat which is about twice that amount. Of that, 90 per cent of Canada's barley is sold for feed or export while the other 10 per cent is made into malt. Canada exports malt and barley to China, Japan, the United States and Italy, among others.

"By speeding up the production of new varieties, yields can be substantially increased,"

The economics of arms race



The U.S. defence budget is actually lower than it was 10 or 15 years ago, in terms of gross national product, said the director of the University of Waterloo's Institute for Peace and Conflict Studies at the noon-hour series "The University and Nuclear Arms."

Professor Ernest Regehr told his audience that the economic cost of maintaining the arms race is well within the capacity of both superpowers.

Turning to military production in Canada, Prof. Regehr claimed that, on balance, the net benefits are largely negative: "Under the defence production sharing arrangement with the U.S. what we buy from them in military equipment is balanced by what we sell to them. This, on the face of it, appears to be an equitable arrangement except that, in some instances, as much as 80 per cent of the components of the items we sell to the U.S. have to be imported from there. The net effect of such transactions is very far from balanced," he said.

The series, sponsored by the Liberal Education Committee, continues next Monday at 12 noon in Room 442 of the University Centre. □

John Robinson

Professor John B. Robinson, Chairman, Department of Environmental Biology, died Thursday, September 29. He was 57. A graduate of OAC, Prof. Robinson joined the faculty of the Department of Microbiology in 1956 after spending four years in the Agriculture Canada Plant Pathology Laboratory in St. Catharines. He later completed his doctoral studies at the University of Kent at Canterbury.

When the Department of Environmental Biology was organized, he transferred to that Department, and was named Chairman last year.

Prof. Robinson was widely recognized for his research and his understanding of stream biology, water pollution concerns and water transported nutrients. He was heavily involved in developing methods for the use of agricultural wastes. He also served on a wide variety of policy and expert committees at provincial, federal and international levels. □

he says. "With each new cultivar, yields are increased by about two bushels worth \$5 to \$6 per acre."

The haploid technique can also be applied to other grains, particularly wheat, he notes. "Since wheat is Canada's main crop, we should be concentrating on that." For the past five years, Prof. Kasha has been supervising work at Guelph on wheat haploids — an area that will be the focus of future research. □

University to mark World Food Day with events

"Food for All" is the theme of this year's World Food Day Sunday, October 16. This annual event was established by the United Nations to strengthen commitment to eliminate hunger. UN figures point out that although enough food is produced worldwide to feed the earth's population, more than 12 million children under five years old die of starvation each year, while another 420 million people suffer from chronic undernourishment.

Three events have been planned at the University to mark World Food Day. Two videotapes, one a production of the U.S. Public Broadcasting television network, will highlight obstacles to providing adequate food for all. "Edge of Survival," the PBS presentation, and "Tilt," an award-winning production of the National Film Board and the World Bank, will be shown Friday, October 14 at 12 noon in Room 103 of the University Centre.

Town and country skills

City and country dwellers alike can become more self-sufficient and enjoy the fruits of the season through a series of Saturday workshops, "Practical Skills for Town and Country" offered at the University.

The series has begun with a timely course on wine-making and "Cheese-Making" is the subject Saturday, October 22. Emphasizing cheeses that can be easily produced at home, the course covers different types of cheese, ancient and modern methods of production, and the practical aspects of domestic cheese production.

Healthy soil is vital for a bountiful garden. "Home Gardens: Soil Management and Composition" Saturday, October 29, presents basic techniques which can be useful before the snow flies. What plants need from soil, its composition and chemistry, fertilizers and composting systems are discussed. This course is followed by "Snow and Wind Control," November 5. Discussions of fencing, planting and building locations are geared towards controlling snow and winds, and reducing heat loss from buildings. A laboratory demonstration will simulate actual conditions.

"Beer-Making," November 26, concludes the fall series. Topics include the process, ingredients, equipment, fermentation, bottling and storage.

The practical skills series continues in the winter and spring. Courses related to gardening cover "Balcony and Patio," "Greenhouse Gardening," "Rose Gardening," "Rock Gardens" and "Small Vegetable Gardens." "Sausage and Dried Meat," and "Drying Food" will also be presented.

Details: Continuing Education, Room 103 Johnston Hall, Ext.3956. □

A discussion on the University's teaching responsibility in the area of world food issues will be held Wednesday, October 12, also in Room 103 of the University Centre. This event, from 7:30 p.m. to 9 p.m., will be a discussion with Professor Mark Lapping, Director of the School of Rural Planning and Development; Stephen Bates, a graduate student in the School of Agricultural Economics and Extension Education; Valerie Huff, a crop science student, and Professor Truman Phillips, School of Agricultural Economics and Extension Education.

"Beyond Compassion - Hunger as a Political Economic Problem" will be the subject of a panel discussion with participation from the Canadian Hunger Foundation Tuesday, October 18 at 12 noon in Room 442 of the University Centre.

On Tuesday, October 13 and Wednesday, October 14, the Canadian University Service Overseas (CUSO) office on campus will have a display in the courtyard of the University Centre. The theme will be how the balance of trade works against the interest of Third World Countries. Tanzanian coffee will be for sale at this exhibit.

All of these events are free and open to the public. □

THE SECOND ANNUAL microcomputer display will be held Wednesday, October 12 and Thursday, October 13 in Room 442, University Centre. In conjunction with the display of the latest microcomputers, plotters, printers and software, the Institute of Computer Science will be offering seminars on microcomputer networks, additional boards, Telidon for teaching and research and great graphics.

If you are just getting started, two seminars will be given Tuesday, October 11, Room 441, University Centre. The seminars will give you basic microcomputer concepts, how to evaluate what's on display and some educated opinions about the equipment. For more information, contact Alison Stewart, ICS, Ext. 2706. To register for any of the seminars, contact Lisa Menegon, ICS, Ext. 3046.

A LIBRARY OF CONGRESS videotape on preservation techniques will be shown in the Group Viewing Room of the Library Monday, October 17. There will be two showings at 11 a.m. and 2 p.m. respectively.

This 51-minute videotape provides information on papermaking processes, the problems of deterioration, solutions through mass deacidification and the experiment for mass deacidification of 5,000 books at the Godard Space Flight Center, and on-going pilot projects to use laser optical disk technology for preservation and resource access.

The tape was made at the May, 1982 meeting of the Association of Research Libraries and features the presentation of Library of Congress experts William Welsh, Peter Sparks, William Nugent and David Remington.

The group viewing room is located beside the stairwell opposite the elevators on the third floor of the Library. Further inquiries: Nancy Sadek, Ext. 3413.

APPOINTMENT

Dr. S.R. Bowley has joined the Department of Crop Science as assistant professor in a probationary position.



Dr. Bowley obtained his B.Sc. (Agr.) and M.Sc. at the University of Guelph and his Ph.D. at the University of Kentucky in the area of forage breeding.

Dr. Bowley will conduct research in forage crop breeding with emphasis on birdsfoot trefoil and red clover. He will also be involved in diploma instruction and graduate student supervision.

Dr. Bowley replaces Dr. D.T. Tomes who has accepted an industry position in the United States.

BRIEFLY

APPLICATIONS FOR CIDA scholarships have been received in the Centre for International Programs. Priority will be given to applications in the following fields: food production and distribution, energy, rural and urban development, education, health and population, the role of women and shelter. These awards are available to Canadian citizens who have completed a post-secondary degree or diploma. The deadline is January 31, 1984. The forms can be picked up at 15 University Avenue, Guelph.

THE THURSDAY Noon-hour Concert on October 6 features bassoonist Christopher Weait, with Susan Chenette at the 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 "Sonata No. 5 in D minor" by Galliard; "Sonata for Bassoon and Piano" by Alvin Etlar; Schumann "Fantasy Pieces, Op. 73," transcribed for bassoon and piano by Mr. Weait; and two piano solos: Brahms' "Intermezzi in B minor and E minor from Op. 119."

Program II will include "Variations for Solo Bassoon" by Christopher Weait; "Sonata for Bassoon and Piano" by Canadian composer Oskar Morawetz; Rimsky-Korsakov's "Flight of the Bumble-Bee," transcribed for bassoon and piano by William Waterhouse; and two more piano solos from Brahms' Opus 119: "Intermezzo in C major" and "Rhapsody in E flat major."

AUTUMN DAY AT the Arboretum, featuring music for winds and strings, will be held Sunday, October 16 at 2:30 p.m. in the OAC Centennial Centre, Arboretum. Admission is free to this event, sponsored by the Arboretum and the Department of Music.

OPENINGS FOR specialists with Ph.D. in swine nutrition and poultry nutrition: Preference will be given to persons who have lived in Malaysia or Singapore. Address inquiries to: Woo Kok Kuan, M.Sc., Director, Research and Development, Gold Coin Limited, 14, Jalan Tepong, Jurong Town, Singapore 2261.

Canada has long way to go in international marketplace

Some of the problems threatening Canada's future were described by Dr. Stuart Smith, chairman of the Science Council of Canada, in the distinguished lecturer series presented on campus by the Guelph-Waterloo Physics Colloquium.

Canadians are maintaining their present standard of living by using their resource industry to pay for imported finished goods, he said. "Our future as a supplier of raw materials is now threatened by such new technologies as fibre optics, which will drastically reduce the market for copper, and composite materials and ceramics, which are replacing steel in the automotive industry.

Traditional manufacturing industries, according to Dr. Smith, face even tougher competition from such developing countries as Korea and Brazil, and these industries will be forced into automation and robotics if they want to be competitive. High technology electronics, communications and biotechnology offer the healthiest prospects, he noted, but Canada is coming from far behind and facing tremendous competition from U.S. and Japanese giants. He said Canada is desperately lacking in international marketing skills. Selling into the world hi-tech market calls for sophistication different from that required to sell wheat to hungry people, he noted.

Dr. Smith sees Canadians as victims of a tradition which takes pride in Canada as a land of lakes and mountains rather than a land of ingenuity and risk-taking. "And yet our whole future at this time depends, not on our ability to survive in the bush, but on bright young people discovering new technologies, developing them and selling them to the world — in other words, on an alliance between the best and the brightest in science and industry," he added.

"We have a long way to go," he said. "We do not yet know how to bridge the gap between science and industry, between

labor and management and between industry and government. We are not teaching sophisticated international marketing techniques in our business schools. Our branch plant executives are too accepting of the restrictions placed on them by their American head offices. We run a risk of a public backlash against technology unless we find ways to alleviate the unemployment problem. We are wasting half our human resources by an educational system which is effectively discouraging women from seeking careers in the sciences. Governments are paralyzed by the need to be 'fair' when offering research grants."

Scientific research in Canada is of a high order but most of it is carried out by government and universities. The amount of research and development conducted by Canadian industry is possibly the lowest of any industrialized nation, he continued.

Dr. Smith said he feels strongly that the government should be prepared to identify key industries and offer significant research incentives only to those who are demonstrating an energetic interest in world markets. Whether the industry is Canadian or foreign-owned is immaterial, he said. The criterion should be export potential and American companies who do not export from Canada would have to change their policy to qualify.

Dr. Smith also said that if we are to retain the bright, young people on whom Canada's future prosperity depends, we must show them that their talents can be utilized here, not just at the research level, but also in the international marketplace.

As far as potential danger of universities losing their independence to industry is concerned, Dr. Smith said that currently universities and industry are so isolated from one another that such dangers are too remote to be taken seriously. □

VISITORS

Virendra Nath

Dr. Virendra Nath, division of plant physiology, Indian Agricultural Institute, New Delhi, India, is visiting the Department of Environmental Biology until December 31. His visit is sponsored by the Food and Agriculture Organization of the United Nations.

Dr. Nath is working in collaboration with Dr. R.A. Fletcher on problems associated with chemical regulation of plant growth. In addition to participating in short-term projects, he is getting acquainted with modern techniques used for extraction, isolation and identification of natural plant growth regulating substances.

Dr. Nath comes from a post-graduate training and research institute and is interested in Guelph's teaching programs and requirements for graduate students.

While on campus Dr. Nath will be in Room 406, Crop Science building, Ext. 8391.



Edgardo Valencia

Dr. Edgardo Valencia of Mexico, deputy general director, Presidency of the Republic, general co-ordinator of the Mexican food system and the national evaluation system, is in the School of Agricultural Economics and Extension Education for the academic year.

Dr. Valencia is visiting on a Pearson Fellowship. He is participating in graduate seminars, visiting with faculty, government, businesses and other organizations.

He is occupying Room 226 in the SAEEM building and he may be reached at Ext. 2173.

JOB OPPORTUNITIES

Secretary, Crop Science. Continuing full-time limited term 8-month appointment. Salary range: \$248.95 - \$349.98.

Administrative Assistant/Office Manager, Office of the Provost. Salary Grade II. Salary range: \$429.61 - \$568.53. Open to on campus employees only.

Technician, Land Resource Science. Temporary full-time. MTS IV. Salary range: \$339.98 - \$486.06.

Technician, Land Resource Science. MTS IV. Salary range: \$339.98 - \$486.06.

Student Accounts Clerk, Bursar's Office. Clerk II. Salary range: \$256.47 - \$369.18. Open to on campus employees only.

Medical Records Clerk, Veterinary Teaching Hospital. Clerk I. Salary range: \$217.69 - \$312.97.

Convocation Parking

Parking Lots P.23/24 and P. 44 will be reserved for the use of guests attending Convocation Friday, October 7.

Alternate parking for regular users may be found in Lots P. 7, P. 15, the front section of P. 19 and P. 48. □



United Way

Central Students' Association president Bob Megens, left, presents Debbie McFadden of United Way with a cheque representing student donations to this year's United Way appeal. Campus canvassers will be approaching you soon to contribute to the University's goal of \$75,000.

FACULTY AND STAFF ACTIVITIES

Professor Miriam Adelstein, Languages and Literatures, attended the Third Summer Cultural Convention of *Circulo de Cultura Panamericano*, University of Miami, where she presented a paper "El mundo de ficcion de Jose Donoso: la autentificidad contra la no autenticidad."

Professor Miriam Adelstein, Languages and Literatures, delivered a paper, "Cuentos by Jose Donoso: Una Exploracion al Dilema del Hombre Contemporaneo" at the VIII Congress of the International Association of Hispanists held at Brown University, Rhode Island.

Professor Elmer C. Alyea, Chemistry, attended the International Conference on the Chemistry of Chromium, Molybdenum and Tungsten in Brighton, England and presented a paper, co-authored by A. Somogyvari, entitled "Chelate Ring Effects in ⁹⁹Mo NMR Spectroscopy." Under the auspices of a British Council Travel Award, Dr. Alyea also accepted invitations to discuss his research with inorganic colleagues at the Unit of Nitrogen Fixation at the University of Sussex, and at the Universities of London, Oxford and Sheffield.

Professor R.C. Anderson, Zoology, and students in parasitology attended the annual meeting of the Wildlife Disease Association held at the University of Georgia. The best student paper award was won by **Miss Lena Measures**, Zoology, for her contribution entitled "Subspeciation and Hybridization of the Lagomorph Stomach Worm *Obeliscoides cuniculi* (Nematoda)."

Ron Ball, a graduate student in Nutrition, won the prize for the best student presentation at the Canadian Society of Animal Science annual meeting held in Truro, Nova Scotia.

His award-winning presentation was "Dietary Amino Acid Requirement of Piglets Measured by Indirect Oxidation."

Professor Eugene Benson, English, was acclaimed chairman of the Writers' Union of Canada at the recent annual meeting held at Trent University. He is the 11th chairman of the Union.

He has also been elected to the executive of the Association for Canadian Theatre History, Association d'Histoire du Theatre au Canada for the year 1983-1984, and elected a member of Poets, Essayists and Novelists, an organization of international writers.

Several members of the Department of Psychology presented papers at the annual meeting of the Canadian Psychological Association held in Winnipeg: **Professor N. Bowen**, "Sexual Harassment in Organizations"; **Professor P. Duda**, "The Effects of Familiarity in the Lateralization of Face Recognition"; Professors B. Earn and M. **Sobol**, "A Categorical Analysis of Children's Attributions for Social Experience"; **Professor M. Evans**, "Children's Speech Repairs: A Window to Cognitive Monitoring"; **Professor K. Korabik**, "Evaluating Innovative Broad-Aim Programs: A Process-Oriented Goal Attainment Model"; Professor H. Marmurek, "Visual Work Processing: A Test of Hierarchical and Race Models"; Professor M. Peters, "Concurrent Motor Task Performance: A Moderate Effect of Lateral Asymmetry and a Powerful Effect of Central Timing Mechanism"; Professors M. Sobol and B. Earn, "What Causes Mean: An Analysis of Children's Interpretations of the Causes of Social Success"; **Professor R. Vallerand**, "On the Causal Effects of Perceived Competence on Intrinsic Motivation" and, Professor D. Yarmey, "Perceptions of the Public and Legal Professionals Towards Police Officers."

Professor N.J. Bunce, Chemistry, recently gave an invited talk at the Second Great Lakes Minisymposium on Photochemistry at the University of Western Ontario entitled, "Actinometers for Every Occasion."

Professor J.L. Campbell, Physics, attended the Third International Conference on Particle-induced X-Ray Emission held in Heidelberg, West Germany as an invited speaker and as a member of the International Advisory Committee. The invited talk, co-authored by Dr. J.A. Cookson of the UKAEA's Harwell Laboratory, was entitled "PIXE Analysis of Thick Targets." Dr. Campbell also contributed a paper, co-authored by R.G. Leigh and Dr. **J.A. Maxwell**, Physics, entitled "Least-squares Fitting of PIXE Spectra with a Digital Filter Treatment of the Continuum."

Professor J.C. Cairns, Centre for International Programs, participated in the panel interviewed at the recent Ottawa press conference set up by the Canadian Commission for UNESCO to launch the UNESCO publication *Adult Illiteracy in Canada -- A Challenge*. Professor Cairns, who wrote the introductory overview to the publication, also participated in several press, radio and T.V. interviews prior to and following the press conference.

Professor Tom Carey, Computing and Information Science, spoke in the summer seminar series, "Riding the Third Wave" at the Institute for Christian Studies in Toronto. Prof. Carey's topic was "The Gift of Good Technology: Impacts of Office Communications Systems."

Professor C. **Young Cho**, Nutrition, attended a national Aquaculture Conference in St. Andrews, New Brunswick. The conference was arranged to provide a forum for identifying the socio-economic opportunities for aquaculture within Canada. Scientists from government, industry and the universities combined their expertise to represent the interests of various sectors and to develop strategies to achieve a national goal.

Professor Kenneth Dorter, Philosophy, attended the 15th World Congress of Philosophy held in Montreal where he presented a paper, "Technology, Individuality, and the Modern Spirit."

Dr. H.H. Draper, Dr. B.J. Holub and graduate student **Barbara Worthington**, Nutrition, took part in the Seventh Western Hemisphere Nutrition Congress held in Miami.

Dr. Holub was invited by the American Medical Association to moderate a symposium "Malnutrition in Hospitalized Patients."

Miss Worthington received a graduate student travel award from the organizers to attend the congress where she presented a report, "Medium Chain Triglyceride Feeding for the Neonatal Pig."

Professor Fred Eidlin, Political Studies, addressed the Guelph Kiwanis Club on his experiences as a prisoner of the Czechoslovak secret police in 1970-1971.

Professor W.R. Fawcett, Chemistry, and several members of his laboratory recently attended the Quebec-Ontario Electrochemical Society Congress meeting held at the Universit  de Sherbrooke. Dr. Fawcett presented an invited lecture entitled: "The Electrodeposition of Semi-conducting Films and Their Use in Solar Energy Conversion." Posters were presented by post-doctoral fellows Dr. M. Drogoska and Dr. A. Lasia, and graduate students G. Champagne and C. Gilbert.

Professor D.E. **Gaskin**, Zoology, spent five weeks on a collecting expedition for Lepidoptera in Greece and Turkey. While his research at Guelph has been directed to marine mammals, especially porpoises, he has a special interest in the Lepidoptera. He has published a number of papers on the sub-family Crambinae, the "sod-webworm" group as they are known in North America, and his activities in the Balkans were directed towards collecting some little-known genera and species.

Prof. Gaskin was also invited by the International Whaling Commission to attend the annual scientific committee meeting of the IWC held in Cambridge, England. He presented a paper for discussion and review entitled "The Harbour Porpoise *Phocoena phocoena*: Apparent Distribution and Status of Regional Populations, with Special Reference to Directed and Incidental Catches."

Professor Stewart G. Hilts, Land Resource Science and University School of Rural Planning and Development, recently attended the Annual Meeting of the Canadian Council on Ecological Areas in Sackville, New Brunswick. He also visited with colleagues in Charlottetown and Halifax, and toured ecological sites on Prince Edward Island with representatives of the Nature Conservancy of Canada and the Island Nature Trust.

Professor J.S. Huang, Mathematics and Statistics, was the invited speaker at the colloquium, department of statistics, Pennsylvania State University. His topic was "Characterization to Exponential Distribution, with Application to Goodness-of-Fit Test."

David Hull, Library, attended the annual meeting of the American Medical Library Association held in Houston, Texas.

Professor Neal Johnson, Languages and Literatures, attended the conference of the Association d  tudes vaudoises et historiques du Luberon held in La Roque d'Antheron, France. He also attended the sixth Congress of the International Society for 18th Century Studies, Brussels, Belgium, where he delivered a paper, "L'id ologie politique du marquis d'Argenson, d'apr s ses oeuvres inedites."

Professor **W. Chandler Kirwin**, Fine Art, was an invited participant at the 25th International Congress of Art History held in Vienna, Austria. His major address, "Bernini and Urban VIII in St. Peter's: Discovery through Contact," was delivered in *absentia* in the session "New Developments and Research Methods in European Art."

Professor G.L. Lange, Chemistry, attended the 29th International Congress of Pure and Applied Chemistry in Cologne, West Germany, and presented a poster entitled, "Structure of Isoaristolactone and Other Products Derived from the Germacranolide Aristolactone," co-authored by graduate student **Paul Galatsis**.

Professor Ian Lubek, Psychology has returned from a semester spent at the Laboratoire de Psychologie Sociale, Universit  de Paris, where he served as a visiting researcher.

While in Europe, Prof. Lubek presented colloquia on the social psychology of science and the development of theories of violence in the social sciences at the University of Lancaster, Universiteit van Amsterdam, Universiteit van Leiden, Erasmus Universiteit, Rotterdam and the Universitat Heidelberg.

PUBLICATIONS

Agwu, D.E., B.J. Holub, I.B. Johnstone and S. Crane, 1983. "Platelet Aggregation in Platelet Suspensions from Mongolian Gerbils (Meriones unguiculatus)," *Can. J. Comp. Med.* 47: 203-206 (Agwu and Holub, Nutrition; Johnstone and Crane, Biomedical Sciences).

Auld, D.A.L., 1983. "Public Sector Wage Controls and Bargaining Restrictions" in Coping with Wage Controls and Spending Constraints, proceedings of the Annual Canadian Teachers' Federation Conference August 1983: 11-25 (Economics).

Bartlett, C.M., 1983. "Cercopithifilaria leporinus n.sp. (Nematoda: Filarioidea) from the snowshoe hare (Lepus americanus Erxleben) (Lagomorpha)," *Canada Ann. Parasit. Hum. Comp.* 58: 275-283 (Zoology).

Benson, J.N., 1983. "The Canadian Experience with Nationwide Banking," Economic Review, Federal Reserve Bank of Atlanta, special issue: 60-65 (Economics).

Black, G.A., W.L. Montgomery and F.G. Whoriskey, 1983. "Abundance and Distribution of Salmincola edwardii (Copepoda) on Anadromous Brook Trout, Salvelinus fontinalis (Mitchill), in the Moisie River System, Quebec," *J. Fish Biol.* 22: 567-575 (Zoology).

Derbyshire, J.B., 1983. "The Effect of Immunosuppression with Cyclophosphamide on an Experimental Porcine Enterovirus Infection in Piglets," *Can. J. Comp. Med.* 47: 235-237 (Veterinary Microbiology and Immunology).

Fuller, A.M., 1982. Review of B. Glaeser, (ed.) Factors Affecting Land Use and Food Production, in GeoJournal 6:4, 1982 (RDOP).

Fuller, A.M., 1983. Review of F.H. Buttel and H. Newby (eds.) The Rural Sociology of the Advanced Societies: Critical Perspectives in Social Indicators Research, vol. 12, no. 1 (RDOP).

Fuller, A.M. and Cavazzani, A., 1982. "International Perspectives on Part-time Farming: A Review," *GeoJournal*, 6(4): 383-389 (Fuller, RDOP; Cavazzani, Università de Calabria).

Fuller, A.M., 1983. "Part-time Farming and the Farm Family: A Note for Future Research," Sociologia Ruralis, vol. xxiii, no. 1: 5-10 (RDOP).

Gentry, P.A. and M.L. Cooper, 1983. "Effect of Intravenous Administration of T-2 Toxin on Blood Coagulation in Calves," *American Journal of Veterinary Research* 44(5): 741-746 (Biomedical Sciences).

Groleau, D., and C.W. Forsberg, 1983. "Partial Characterization of the Extracellular Carboxymethylcellulase Activity Produced by the Rumen Bacterium Bacteroides Succinogenes," *Can. J. Microbiol.* 29: 504-517 (Microbiology).

Hardy, M.H., R.J. Van Exam, K.S. Sonstegard, and P.R. Sweeny, 1983. "Basal Lamina Changes During Tissue Interactions in Hair Follicles -- An in vitro Study of Normal Dermal Papillae and Vitamin A-induced Glandular Morphogenesis," *J. Invest. Dermat.* 80: 27-34 (Microbiology).

Harnett, N.M. and C.L. Gyles, 1983. "Enterotoxigenicity of Bovine and Porcine Escherichia coli of O Groups 8, 9, 20, 64, 101 and X46," *American Journal Vet. Res.*, 44: 1210-1214 (Veterinary Microbiology and Immunology).

Harrison, James, 1983. Flying Dutchmen, Victoria, B.C.: Sono Nis Press, 1983 (English Language and Literature).

Hazlett, M.J., M.G. Maxie, D.G. Allen and B.P. Wilcock, 1983. "A Retrospective Study of Heart Disease in Doberman Pinscher Dogs," *Can. Vet. J.* 24: 205-210 (Pathology, Clinical Studies and Veterinary Laboratory Services Branch, OMAF).

Hazlett, M.J., P.B. Little and D.A. Barnum, 1983. "Experimental Production of Mastitis with Haemophilus somnus in the Lactating Bovine Mammary Gland," *Can. Vet. J.* 24: 135-136 (Pathology and Veterinary Microbiology and Immunology).

Heeney, J.L., A. Singh, T. Stirtzinger and V.E. Valli, 1983. "Bovine Ocular Squamous Cell Carcinoma: Ultrastructural Characteristics in vitro," *Vet Res. Commun.* 6: 205-213 (Pathology and Biomedical Sciences).

Hilton, J.W. and P.V. Hobson, 1983. "Effect of Increased Dietary Carbohydrate on Selenium Metabolism and Toxicity in Rainbow Trout (Salmo gairdneri)," *J. Nutr.* 113: 1241-1248 (Nutrition).

Hodson, P.V. and J.W. Hilton, 1983. "The Nutritional Requirements and Toxicity to Fish of Dietary and Waterborne Selenium," *Environmental Biogeochemistry Ecol. Bull.* 35: 335-340 (Nutrition).

Powell, John T., 1982. "Sport-Teaching is it Art or Science?," *Mind, Body and Spirit* the Annual Journal of the Army Physical Training Corps, 66: 24-27 (Human Biology).



Trivia Quiz

NATIONAL UNIVERSITIES WEEK (Oct.2nd-8th)

1. Canada's largest university is the University of Toronto.
2. The three degree levels are: Bachelor's, Master's, doctoral.
3. Laurentian University and the University of Ottawa are the two Ontario universities at which it is possible to study in either French or English for degrees.
4. An astrolabe is the symbol appearing in the upper right corner of the University of Guelph's shield.
5. Toronto, Western and Waterloo are Ontario's largest universities.
6. There is one university in Newfoundland - Memorial University.
7. The University of Guelph provides the only courses in agriculture and veterinary medicine in Ontario.
8. British Columbia's three universities are: the University of British Columbia, Simon Fraser and the University of Victoria.
9. Brandon University in Manitoba offers programs for training Indian and Metis teachers and teachers for the North.
10. 484 is the serial number on Guelph's cannon.
11. The University of Saskatchewan is its correct name.
12. Dalhousie University is Nova Scotia's largest university.
13. Brescia College, at Western, is for women only.
14. Mount Allison University is a liberal arts college in Sackville, N.B.
15. The southernmost university in Canada is the University of Windsor.
16. Ontario's five faculties of medicine are Ottawa, Queen's, Toronto, McMaster and University of Western Ontario.
17. The University of Guelph's motto is: Rerum Cognoscere Causas (to ascertain the reasons of things).
18. Dalhousie University is the only Atlantic province university offering medicine, dentistry and pharmacy.
19. The largest university in Alberta is the University of Alberta, Edmonton.
20. The Arboretum at Guelph has 330 acres or 137.5 hectares.
21. P.E.I.'s university is the University of Prince Edward Island at Charlottetown.
22. The Yukon and the Northwest Territories have no universities.
23. Acadia University is located in Wolfville, N.S.
24. McMaster University is in Hamilton, Ontario - the largest Canadian inland port on the St. Lawrence Seaway.
25. Bishop's, Concordia and McGill are Quebec's three English-language universities.
26. The Department of the Secretary of State is the federal department that co-ordinated federal education programs.
27. Heather Cooper, a Toronto artist, designed the University of Guelph horse poster.
28. Douglas Library is at Queen's University, Kingston.
29. The Saskatchewan Indian Federated College is affiliated with the University of Regina.
30. Wilfrid Laurier University was formerly called Waterloo Lutheran University.
31. The University of Waterloo pioneered the co-op work/study program.
32. Brock University is named after General Isaac Brock, who was killed during the Battle of Queenston Heights in the War of 1812.

Material taken primarily from the Directory of Canadian Universities, 1982-83.

Next Week at Guelph

THURSDAY, 83 10 06

Noon Hour Concert - CHRISTOPHER WEAIT AND SUSAN CHENETTE, bassoon and piano, 1210 and 1310, MacK107.
Continuing Education - GREAT MYSTICS: BLAKE AND WHITMAN, P. Hourihan, 1930; INTRODUCTION TO PERSONNEL AND INDUSTRIAL RELATIONS, D. Ainsworth, 1900, Ext. 3956 to register.
Schofield Lecture - TEACHING AND RESEARCH, D. Sinclair, 1500, Macdonald hall 149.
Library Tour - BOOKS AND DOCUMENTS, 1810; MAGAZINES, 1410.
Workshop - COMPUTERIZED VISUAL INFORMATION, 1000, Ext. 3106 to register.
National Universities Week - JOG, 1215, Athletics Centre; COMEDY OF AL SIMMONS, 1200, UC Courtyard.
Meeting - CHILD CARE CONCERNS GROUP, 1200, UC103.
Apiculture Club - WINTERING BEES IN ONTARIO, D. Boyes, 1710, Graham Hall, Rm. 200.
Faculty Club - ANNUAL GOLF TOURNAMENT, 1300, sign up at the Faculty Club, level 5, UC.
Community Ethnic Relations - MULTICULTURALISM, K. McLeod, 1930, 128 Woolwich St., Suite 203.
Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.
Meeting - ON CAMPUS RECRUITING, 1600, UC332; INTEREST TEST, 1300, register at the Connection Desk.
Graduate Student Seminar - A COMPARATIVE STUDY OF THE EFFECTS OF SEVERAL COMPOUNDS ON WOUND HEALING IN THE BOTTLENOSE DOLPHIN, L.J. Bruce-Allen, 1110, Pathology 220.

FRIDAY, 83 10 07

Fall Convocation - 1000 and 1400, WMH.
Worship - FACULTY CHRISTIAN FELLOWSHIP, 1200, Johnston Hall 157.
National Universities Week - CAMPUS TOUR, 1315, UC information desk; PANEL, "Adult Learning," M. Waldron, 1200, UC103.

SATURDAY, 83 10 08

Sports - RUGBY, Guelph vs. Wilfrid Laurier, 1400.

SUNDAY, 83 10 09

Worship - ANGLICAN/UNITED, 1600, UC441; CAMPUS CHURCH SERVICE, 1030, P5113; CATHOLIC MASS, 1000, PCH.
Guelph Cycling Club - LAKE BELWOOD, 1000, UC.
Sunday Afternoon Walk - NATURE'S HARVEST, 1400, J.C. Taylor Nature Centre.

MONDAY, 83 10 10

Thanksgiving Day - CLASSES CANCELLED.

TUESDAY, 83 10 11

Worship - CATHOLIC MASS, 1700, chapel, level 5, UC; CHRISTIANITY AND MARXISM, 1700, UC332.
Continuing Education - SMALL POULTRY FLOCK PRODUCTION, B. Reinhart, 1900, Ext. 3956 to register.
Classes - CITIZENSHIP ORIENTATION, 1900, Guelph Multicultural Centre, 128 Woolwich St., Suite 203.
Physics Seminars - MOLECULAR BEAM SPECTROSCOPY: THE MODERN APPROACH, D. Rosner, UW0, 1600, PS113.
Our World - GUATEMALA/VENCERA: HUMAN RIGHTS VIOLATIONS IN GUATEMALA, 1210, UC442.
Meeting - GUELPH CAMPUS CO-OP, 1900, UC103, members only.
Meeting - MICROCOMPUTER CLUB, 1900, ICS212.
Captain's Series - DRIFT, DROWN OR DECIDE, S. Luker, 1930, Lambton Hall Fireplace Lounge.
Study Skills Seminar - HOW TO STUDY, 1900, McLaughlin Library Orientation Room.

WEDNESDAY, 83 10 12

Worship - CHRISTIAN DOCTRINE CLASS, 1700, UC334; IMMANUEL FELLOWSHIP, 1900, AS141; ANGLICAN EUCHARIST, 1210, Johnston 151; CATHOLIC MASS, 1700, chapel, level 5, DC.
Guelph Cycling Club - DOWNEY ROAD, 1715, UC.
World Food Week - WORLD FOOD: THE TEACHING RESPONSIBILITY OF THE UNIVERSITY, 1930, UC103.
Continuing Education - BEEF COW CALF, R. Macartney, 1900; THE WORLD OF CARTOONS, B.Fray, 1930, Ext. 3956 to register.
ICS - THE C PROGRAMMING LANGUAGE, T. MacKay, 1100, Ext. 3046 to register.
Gerontology Research Centre Seminars - IMPACT OF THE ELDERLY ON RURAL DEVELOPMENT, G. Summers, Wisconsin, 1200, UC332.
Lecture - A COMPREHENSIVE STRATEGY FOR COMMUNITY ECONOMIC DEVELOPMENT, G. Summers, Wisconsin, 1900, LRS124.
Red Cross - BLOOD DONOR CLINIC, 1400, St. George's Church, 99 Woolwich St.
Lecture - RURAL INDUSTRIALIZATION: MYTH OR REALITY, G. Summers, 1900, LRS124.

THURSDAY, 83 10 13

Noon Hour Concert - SHAUNA ROLSTON & ISOBEL MOORE, cello and piano, 1210 and 1310, MacK107.
Instructional Development - DATA BASES YOU MIGHT LIKE TO KNOW, 1500, Ext. 3522 to register.
Apiculture Club - BEEKEEPING IN NORTHERN IRELAND, T. Hunter, 1710, Graham Hall, Rm. 200.
French House - CASABLANCA, 2000, WMH.
Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.
Guelph Field Naturalists - ASTERS AND GOLDENRODS, D. Semple, 1945, Arboretum Centre.
Display - WORLD FOOD DAY, UC Courtyard.
Graduate Student Seminar - BOVINE LEUKEMIA VIRUS INFECTION IN SHEEP: A MODEL FOR RETRO-VIRAL ONCOGENESIS, T. Stirtzinger, 1110, Pathology 220.
ICS - MARKS, J. Mathews, 1315, Ext. 3046 to register.
Lecture - BERNARD SHAW AND THE USES OF HISTORY, D. Laurence, 1600, Inner Stage, MacKinnon building.

PERSONALS

Available

Pianos bought, sold, tuned, restored, 837-1036; French tutor for any level, contact Michele, 3884.

Wanted

Swingomatic baby swing, 821-9401 after 1700; ride from Durham to Guelph, return, Wednesdays to end of semester, contact Marlene, 2413; young German girl would like to improve her English by staying with family, will help with children and household chores, 821-1736 after 1700; ride from Kitchener (Ontario & Charles) to U. of G., 08:30-1600, Mon. to Fri., share gas, contact Jude, 3425; three bedroom house to rent for quiet non-smoking couple, near University, Dec. 1 - Aug./84, 836-4968 evenings; guitarists and/or other instrumentalists to donate time to assist with regular Sunday afternoon worship, contact Rev. Dorothy Barker, 8909 or Room 158 Johnston Hall.

For Rent

Winterized lakeside home in Kawarthas, weeks and weekends, fall, winter, summer, 821-1792 evenings; two bedroom apartment in historical stone mansion, no children or pets, 824-1773 evenings.

Lost and Found

Men's watch found on Edinburgh south of College, Thurs. Sept. 8, 822-3482 after 1700.

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