

Vets, students care and share in Externship Program

Adventures with creatures great & small

Linda Kazienko should have known better. She was giving an intramuscular injection to a big Black Angus in a position where she had been taught she shouldn't — and found herself sailing through the air towards an undignified and odiferous landing in a pile of bovine organic waste material. "That's when I realized I was no longer in the classroom."

Ms. Kazienko is one of 120 OVC students who rounded out the completion of third year by working with practising veterinarians in all parts of Ontario for the summer. Their collective adventures could provide material for a dozen more episodes in the famous television series:

"There was a collision on the road quite close to the clinic involving a load of Herefords from the West. Several of them were injured but half a dozen or so escaped and I was helping the other people from the clinic to round them up. We stalked one cow for hours through woods and swamps armed with a tranquilizer gun which none of us had used before, but we finally got a dart into her and down she went. So far, so good! Then just as we were putting a rope around her neck she took off like a charging rhinoceros, tearing headlong around a 100-acre field with two of us hanging on like grim death and everyone else laughing their fool heads off. We weren't going to lose her after all that and we won in the end — but not until we were bruised from head to foot."

The OVC Externship Program, voluntary this year but due to be incorporated into future curricula, was launched by Dr. Bob Buck, OVC co-ordinator of externship liaison, and Dr. Jack Cote, associate co-ordinator of the Externship Program, to expose students to the reality of field experience. "There is much more to being a veterinarian than caring for animals," says Dr. Cote. "There are economic factors in livestock production which may be critical and these must be understood. There are also emotional factors involved in the caring for companion animals."

"They can teach you backroom medicine but the front office is a whole different story. To have to go out there and tell someone that their pet is dead and

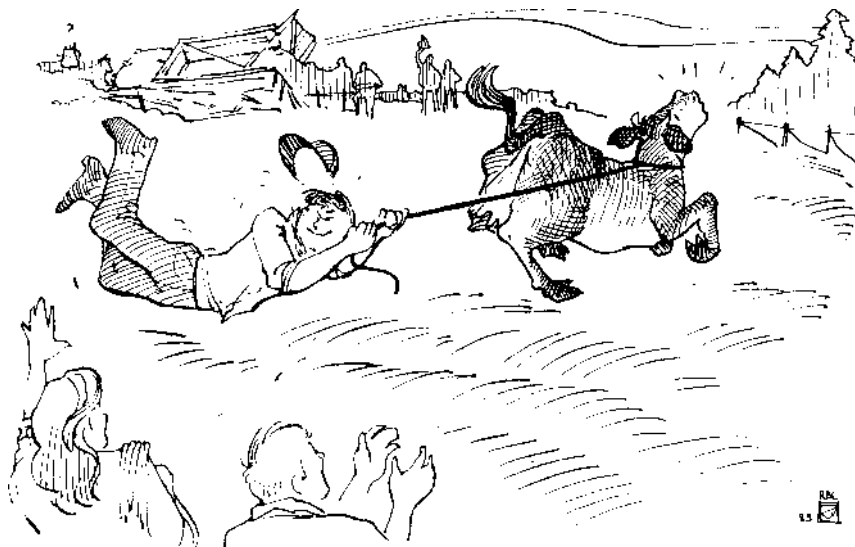


have them just sit right down there on the waiting room floor and howl — well nothing prepares you for that. It is not easy to tell an older person who has had a dog, say, for many years, that it should be put down. It's just like one of the family — maybe their only family. We had to put down a pet rabbit belonging to a little girl and she came in the next day and brought me a gift for trying to save it — I thought it took so much for her to be able to do that."

Finding host practitioners who would be willing to take part in the Program meant going through the *OVA Directory* and writing to those members whose practices were within the desired category — at least 50 per cent food-producing animals. The response from the practitioners, almost all of whom are OVC alumni, was immediate and enthusiastic. "We received 125 affirmative replies, complete with additional information requested," reports Dr. Buck. "The practitioners agreed to involve the students in the whole spectrum of veterinary practice. Students and veterinarians met for face-to-face discussion about the program and to ensure personal compatibility."

Both parties signed contracts covering conditions and dates and the host practitioners participated in a meeting on campus

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to clarify the program and share new ideas. OVC Dean, Douglas Maplesden, welcomed them to a day of discussions on such subjects as "The Practitioner as Role Model," "Observations Pertaining to Epidemiology," "The Use of Computers," "Health Management Philosophy" and "Reproduction: Clinician/Student/Practitioner Interaction."

Overseeing the program kept Dr. Cote on the road for most of the summer. He travelled 15,000 kilometers to visit nearly all the practitioners and draw up reports:

* *"Caught up with Dr. Karn who was out with Anne Harlowe attending a feeder pig with prolapsed rectum. Anne did the surgery. It was very neat and when completed you would not have known anything had taken place. Dr. Karn commented that he had never seen cattle so well anaesthetized and that was because Anne had shown him the intravenous method of administering locals. It was a good example of two-way information between practitioners and students."*

"Pat Meyers came in with Dr. Reed. They had just finished some equine work and were going out to castrate a colt. Pat was very enthused about the Externship Program. He said that until he started applying his knowledge, he didn't really realize how much he had stored up there. He thought that after the exams his mind was just a jumble, but Dr. Lothrop said he had never had a student who had such expertise in reproductive work."

* *"Farm call with Dr. Popper and Cathy Truscott to castrate a year-old bull for a small backyard farmer. Cathy had done her first Caesarian last week on an aged cow and they wanted to salvage the calf which was two or three weeks premature. The surgery went well and they got a live calf."*

Students were required to keep logbooks and to write up 12 case histories which, collectively, present a wide-angle view of veterinary life in present-day Ontario. Their reports included comments from the host practitioners who confirmed that the learning process was indeed a two-way street, and that the future for even closer ties with the OVC is very bright.

Dr. Buck points out that the Externship Program is different from the orthodox co-operative program where the students are paid by the host. In this instance, they

receive a modest allowance from the College and the practitioners are paid an honorarium and a certificate of recognition to acknowledge their teaching role and contributions to the program.

Students were unanimous in their opinion that their hosts allowed them to participate in a wide range of field experience, always emphasizing prevention, but with full realization that emergencies are never more than minutes away.

"We saw smoke coming from a farmyard down the road. It was not one of our clients but we rushed right over there. It turned out that one of the barns had 40 sows, each with 10 to 15 piglets. We were frantically trying to undo the wing nuts at the back of the pens to get them out when the fire spread to that barn, too, and we had to get out of there until the firemen had it a bit under control and cut a hole through the back wall. By that time there must have been 50 neighbors trying to help and we formed a human chain, throwing piglets hand-over-hand into the yard. In the end we only lost six animals, but I stank of pig for days after."

For some of the students this was their first exposure to small town life.

"Everything closed at 5 p.m. I didn't believe it. I mean — it's a great life if you are an hour's drive from the city, but three hour's drive is a bit much."

On the other hand, another student commented,

"I was brought up in a big city but now the whole place seems crazy to me. It's nice to get there once in a while, but I'd hate to live there."

The most valuable aspect of the experience for the students was to be able to measure the validity of their academic studies against the realities of field practice.

"I know all the possible causes of many conditions, but had no idea which were the most common and where to start looking."

"Animals don't know they are not supposed to have more than one disease at a time."

"You are dealing with people who may be lacking in formal education, but have a wealth of practical experience. At the other end of the spectrum you run into OAC graduates who know a great deal about disease processes. It is quite an art to be able to relate to all these people at their level. You almost have to develop a second language. They

teach us all these 24-letter words at OVC, but you can't use them with the general public. If you do, far from thinking you are smart they only conclude you are stupid and trying to blind them with science because you don't really know what's wrong with their animal. You have to be able to tell people what you are doing in language they understand."

The host practitioners offered their own evaluation of the Program. As professionals and as OVC alumni they tempered their approval with incisive comments which will provide invaluable feedback to OVC policy makers.

"There is no doubt about the success of the Program," concludes Dr. Cote. "Preparations for 1984 are already under way and students and practitioners are looking forward to next summer." □



HA FA award recipients: left to right, sitting, Mr. Bailey, Ms. Brzeski and Ms. McGuinness, standing, HA FA professor, Ted Fletcher; Carling O'Keefe sales representative, Victor Zadro, and HA FA lecturer, Bob Desautels.

O'Keefe awards

Eleven outstanding School of Hotel and Food Administration students have received \$5,000 in scholarships from Carling O'Keefe Ltd. The scholarships were presented by Reg Boviard, director of public relations for Carling O'Keefe Ltd. at the 14th annual gourmet dinner sponsored by the company.

Each year Carling O'Keefe presents two entrance awards and three in-course awards for students in each of the first, second and third year of the program. This year entrance awards of \$700 each went to Rita Hansen, Guelph, and Louise Engel, Caistor Centre.

In-course awards of \$600, \$400 and \$200, respectively, went to: First year — Margaret Francis, Belleville, Anna Sam, Toronto and Jeanne Mephram, Simcoe; Second year — Helen Robertson, Milton, Stephanie Bates, Owen Sound and Karen Maki, Kitchener; Third year — Ace Bailey, West Hill, Mary McGuinness, Marysville, and Ada Brzeski, Montreal.

Acting President Dr. Howard Clark congratulated the winners and thanked Carling O'Keefe for continuing to sponsor such an important scholarship program. A special guest at the presentation ceremonies was Bernie Spidell, president, Ontario Hotel and Motel Association. □

Expanding career options for women

Jocelyn Wellington, a senior student at the OVC, was recently invited to lead a discussion in a one-day conference, "Expanding Your Horizons in Mathematics and Science." The conference, designed for female students enrolled in Grades 7 through 13 in the Toronto area, was organized by five departments of the Toronto Board of Education — mathematics, science, guidance, women's studies and the inner city department — together with the equal opportunities office.

The object of the conference was to show young women, while still in high school, the interesting career options open to them if they continue their studies in mathematics and science. Workshops in such areas as rocket building, computer science, medicine, electronics and solar cookery took up the

morning session. The afternoon was devoted to dialogue in groups and through panel discussions.

Miss Wellington, along with Caroline Greenland, a biologist from the Metro Zoo, led a discussion group dealing with possible careers for women in animal science.

The OVC student is the past-president of the Canadian Veterinary Students Association (CVSA). She was appointed as undergraduate student on the Selection Committee for President, University of Guelph. During the 1982-1983 school year she served on the OVC Advisory Committee, the OVC Alumni Association and the OVC Computer Group. She was also the 1983 recipient of the Ontario Veterinary Association Award. □

Guelp Spring Festival '84

sweet voices of young people will be heard in the Toronto Mendelssohn Youth Choir Sunday, May 6 at 3 p.m. at Melville Church, Fergus; Les Jeunes Chanteurs d'Acadie Sunday, May 13 at 3 p.m. in St. Georges Church and in response to magical storyteller Robert Munsch Wednesday, May 9 and Thursday, May 10 at 1:30 p.m. in War Memorial Hall. The 78th Fraser Highlanders Pipe Band bring the skirl of the pipes and drums Friday, May 11 at 8 p.m. in the Athletics Centre.

The world premiere of Ken Mitchell's play *Gone the Burning Sun*, exploring the mind and heart of Canadian hero Dr. Norman Bethune, stars David Fox. *Gone the Burning Sun* will be presented at the Inner Stage May 7 to May 12 and May 31 to June 4 at 8 p.m., and May 9, May 12 and June 2 at 3 p.m. when the Learned Societies meet in Guelp. On June 3 at 8 p.m. in War Memorial Hall the Festival presents "A Night in Old Vienna," a feast of Schubert and Brahms with pianist Anton Kuerti and a lyrical vocal quartet.

Tom Kneebone and Darcy Dunlop will sparkle with charm as the magical Noel Coward and Gertrude Lawrence, stars of stage, screen and memory Sunday, May 13 at 8 p.m. in Creelman Hall. Anna Russell will crown the Festival with wicked wit and cabbage roses Friday, May 11 at 2 p.m. and Saturday, May 12 at 8 p.m. in War Memorial Hall.

"Gala," Saturday, May 5 at War Memorial Hall, offers films of dance performances by the National, the Royal Winnipeg and Les Grands Ballets.

Details: The Guelp Spring Festival Box Office, Box 1718, Guelp, Ontario N1H 6Z9 or telephone 821-7570 □

A celebration of love and laughter

Love triumphs in Gluck's immortal opera *Orpheus and Euridice* (an opera to be presented Friday, April 27, Sunday, April 29 and Tuesday, May 1 at 8 p.m. in Ross Hall). It stars Janet Stubbs as "Orpheus," Heather Thomson as "Euridice" and Jane MacKenzie as "Amor." The Festival production brings together Canadian cultural forces — the Toronto Dance Theatre, Guelp Chamber Choir and Hamilton Philharmonic Orchestra — in an imaginative creation by the celebrated Belgian designer Thierry Bosquet, directed by Bill Glassco and conducted by the Festival's artistic director, Nicholas Goldschmidt.

Canada's Orford Quartet and the international prize-winning Colorado String Quartet will recreate the melodic magic of Mendelssohn Saturday, April 28 at 8 p.m. in War Memorial Hall. Bass baritone Simon Estes, who triumphed at Bayreuth, will give a recital of arias and spirituals Saturday, May 5 at 8 p.m. in War Memorial Hall. Maestro Franco Mannino will conduct the NAC Orchestra and mezzo-soprano Catherine Robbin in a program of Prokofiev, Mendelssohn, Rossini and Respighi Friday, May 4 at 8 p.m. in Ross Hall.

One of the world's great pianists, Claude Frank will open his 25th anniversary tour with a Festival performance of Beethoven Sunday, May 6 at 8 p.m. in War Memorial Hall. Mezzo-soprano Alexandra Graham and baritone Ingemar Korjus will make beautiful music together at the Elora Mill Inn, Elora Sunday, April 29 at 11 a.m. and 3 p.m. The

Soirée, world premiere for the Learneds

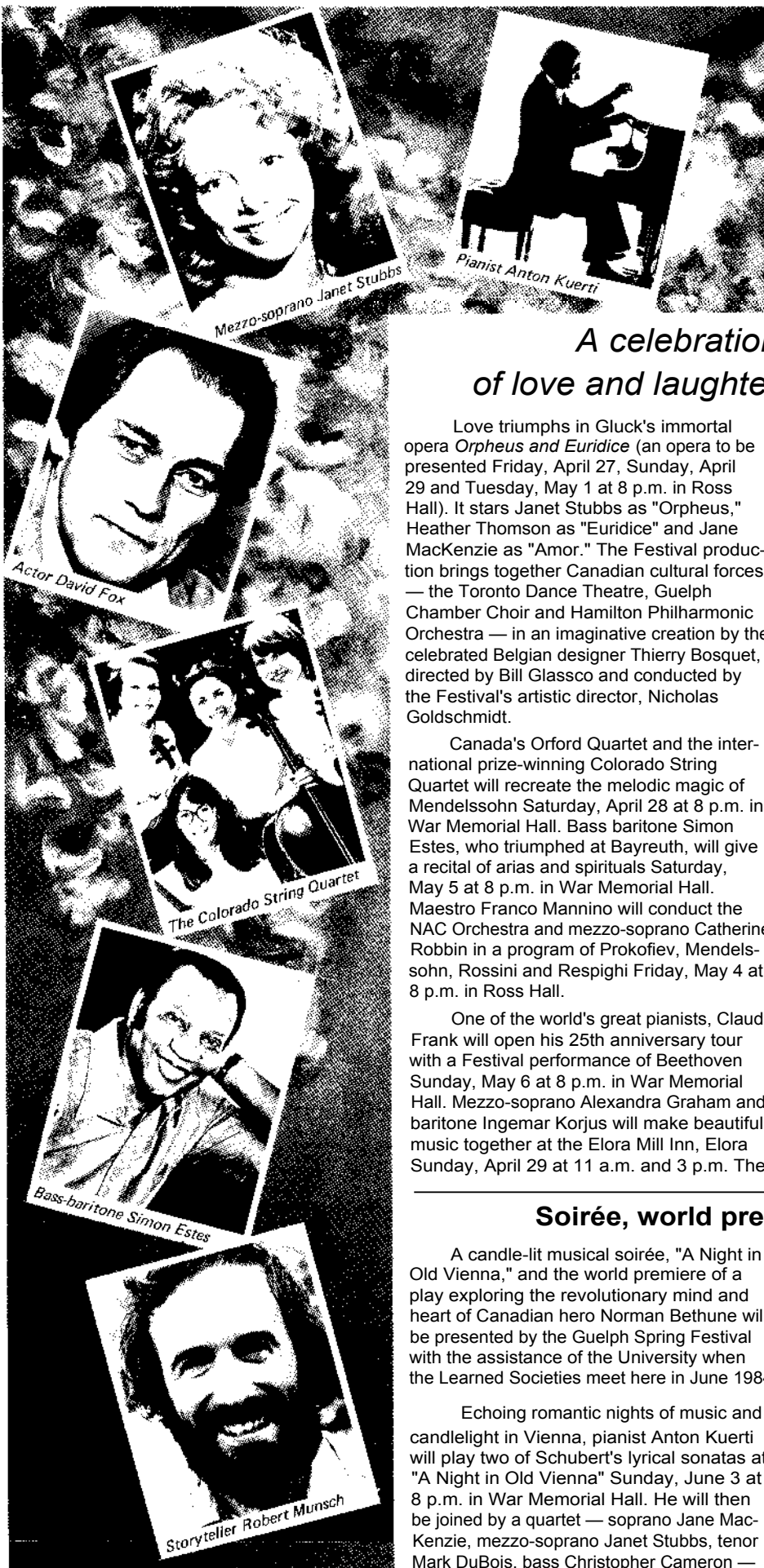
A candle-lit musical soirée, "A Night in Old Vienna," and the world premiere of a play exploring the revolutionary mind and heart of Canadian hero Norman Bethune will be presented by the Guelp Spring Festival with the assistance of the University when the Learned Societies meet here in June 1984.

Echoing romantic nights of music and candlelight in Vienna, pianist Anton Kuerti will play two of Schubert's lyrical sonatas at "A Night in Old Vienna" Sunday, June 3 at 8 p.m. in War Memorial Hall. He will then be joined by a quartet — soprano Jane MacKenzie, mezzo-soprano Janet Stubbs, tenor Mark DuBois, bass Christopher Cameron —

and pianist Patricia Parr for Brahms' "Liebeslieder Waltzes." Tickets are \$12.50 and \$10.

Norman Bethune, the courageous Canadian doctor is portrayed by David Fox in *Gone the Burning Sun* by Ken Mitchell. Directed by Brian Richmond and designed by John Dinning, *Gone the Burning Sun* will be presented at the Inner Stage May 31 to June 4 at 8 p.m. with a matinee Saturday, June 2 at 3 p.m. Tickets are \$8.

Orders of 20 or more tickets for these events qualify for a 20 per cent discount. For information; contact the Guelp Spring Festival, Box 1718, Guelp, Ontario N1H 6Z9, 821-7570.



A place to argue research

Peace and security and mental health are on the program for the Colloquium for the Critical Approach to Science and Philosophy meeting Sunday, November 20. Dr. Mordecai Roshwald, Winegard Visiting Professor in the College of Social Science, will discuss peace and security in Arab-Israeli relations and Dr. Jancis Long, a clinical psychologist practising in Washington, D.C. who was formerly of Cambridge University Hospital, will speak on the possibility of giving serious consideration to the descriptions people in therapy give of their own problems.

The colloquium, seventh in the series, is described by one of its organizers, Political Studies professor Fred Eidlin, as a response to a demand for interdisciplinary discourse.

Prof. Eidlin says the series is attracting a cross-section of the intellectually curious — theoreticians from the arts, natural and social sciences, professionals such as engineers, physicians and lawyers, and artists and writers.

The colloquium takes its point of departure from the philosophy of Karl Popper but, as Prof. Eidlin emphasizes, it is open research problems rather than Popper's ideas that are under discussion. "People did not come to Popper's seminars at the London School of Economics to talk about his philosophy or even about philosophy in particular. They came to argue about their research. This, roughly, is the model for our colloquium."

Details: Prof. Eidlin, Ext. 3469 or Prof. Tom Settle, Ext. 3123. □

Human biology spotlighted in high school enrichment program



Professor Trevor Hearn, Human Biology, explains how the spine functions to enrichment students from Wellington County, Niall Sweeny, left, and Jo Ella VanDuren. They were part of a group of 124 students who visited the University last week.

High school students from Wellington County took part in a mini-conference on human biology on campus last week. The 124 students were involved in the board of education's enrichment program. Workshops were conducted by faculty members and high school teachers for small groups of 10 to 15 students.

Human Biology faculty members Trevor Hearn and Terry Graham ran workshops on how hands and arms function, prosthesis, exercise and work physiology which involved the students in a variety of practical acti-

vities including the testing of hand grip strength and exercising on a bicycle under the stress of simulated hot weather.

Food Science professor Yukio Kakuda involved his students in a taste panel, chromatography demonstration and simple cheese-making exercise while Dr. Derek Paquette, an MD and veterinary Ph.D. student, led a workshop on body systems and functions at the OVC.

Students who visited Family Studies professor Rosalind Gibson's laboratory had an opportunity to conduct a dietary assessment based on their food intake for the previous 24 hours, an anthropometric assessment which involved measurement of growth and body composition and a biochemical assessment. This involved a blood sample to determine iron status and blood group.

Another group took part in a session on nutrition and food additives conducted by Nutrition professor Ted Evans.

Psychology professor David Piggins pointed out the difficulties in building a seeing machine that can aspire to man's eye capabilities in a talk called "Seeing is Believing" in which he also considered man's ability to see what is usually taken for granted — contours, shapes, patterns and depth. Guelph eye physician G.G. Kuder also dealt with the eye in a session on structure and function.

Wellington County teachers Douglas Davidson, Jean Davidson and Bill Blackie also led sessions.

Featured speakers for the event were Human Biology professors John Brooke on "Science, Humans and Their World" and Prof. Hearn whose topic was "Bioengineering." □

Trivial Pursuit - University style

What is a neuro-anatomist? How do you spot a tentiform leaf miner? What is wrong with using anabolic steroids? What is the function of the "Y" chromosome in mammalian sexual development? What is nuclear magnetic resonance?

These are not new genius-level Trivial Pursuit questions, but some of the topics to be discussed by 1,000 Ontario high school students who will be on campus for the Fifth Annual Interaction Conference on Scientific and Human Issues Wednesday, November 23 and Thursday, November 24.

Mostly Grade 13 students, the participants will soon be making their own choice of university and the conference provides an opportunity to introduce them to the University of Guelph's unique brand of intellectual stimulation as well as giving them first-hand experience of campus facilities.

Students will be coming from all parts of Ontario, accompanied by some of the 1,250 University of Guelph alumni who are now teachers in the high school system.

The conference is a one-day event, but

it will be duplicated on the Thursday to accommodate all the students who have applied. They will be welcomed and addressed on the first day by Philosophy professor, Tom Settle and on the second day by Peter Cameron, OPI RG.

Penny Scott, Admissions, speaks warmly of the co-operation of the more than 20 faculty members who will participate as workshop leaders. "These are all very busy people," she says, "and in many instances they will be adapting highly esoteric material to the understanding of an eager, but young, audience. If the previous years are any indication, each of the 23 workshops will be the scene of lively discussion."

Each student will be able to attend two workshops from 10 a.m. to 11:45 p.m. and the other from 1:30 p.m. to 3:15 p.m. They will then be taken on a tour of residences and other campus areas. Luncheon in Peter Clark Hall of the University Centre will be followed by on-campus student entertainment. □

Major exhibition for GSF

To celebrate the 1984 Guelph Spring Festival, the Macdonald Stewart Art Centre is organizing a major exhibition of paintings and drawings by Canadian artist Kate Graham. This exhibition is funded by a grant from The Canada Council.

Ms. Graham received international attention during a group exhibition which recently toured England and France. She has had regular solo shows with art dealers in Washington, Houston and New York.

The exhibition will provide the first examination of Ms. Graham's work in a fully documented catalogue written by Art Centre staff. A number of works in the catalogue will be illustrated in color. The exhibition will feature 20 large canvases, watercolors and pastel and pencil sketches.

The exhibition will open at the Art Centre April 28 and continues to June

George Eaton

George W. Eaton, professor in pomology, department of plant science, University of British Columbia, is visiting in the Department of Horticultural Science until Friday, November 25.

Prof. Eaton has been at UBC since 1964 where he is researching biometrical aspects of plant crop productivity, yield component analyses and mineral nutrition in small fruits, tree fruits and vegetable crops.

Anyone wishing to consult with Prof. Eaton should contact Professor A. Zitnak, Ext. 2785 or N. Cain, Ext. 2495, Horticultural Science. □

Tony Desmond

Tony Desmond is with the Department of Mathematics and Statistics as assistant professor for one year. He is a visiting professor from England.

Prof. Desmond has B.Sc. and M.Sc. degrees in mathematical science from the National University of Ireland and a Ph.D. in statistics from the University of Waterloo. His Ph.D. thesis was awarded the Pierre Robillard award by the Statistical Society of Canada in May, 1983.

Prof. Desmond is interested in statistical inference and applied probability with particular reference to applications in engineering and medicine.

At Guelph he is teaching courses in statistics and probability. □

Murray S. Blum

Professor Murray S. Blum, department of entomology, University of Georgia, will be visiting the Department of Environmental Biology until Monday, November 21. Prof. Blum is a world authority on the role of chemicals in the regulation of insect behavior and has recently written a book, Chemical Defences of Arthropods.

During his visit Prof. Blum will give seminars on "Chemical Ecology of Insects" and "Chemical Communication of Social Insects," and will participate in several departmental courses. His office is in Room 209, Graham Hall, and he may be reached at Ext. 2478. □

Michael Fisher

Michael Fisher has recently joined the Department of Mathematics and Statistics as a visiting assistant professor while on sabbatical from the University of Western Australia.

Prof. Fisher obtained his B.Sc., M.Sc. and Ph.D. in applied mathematics from the University of Western Australia.

His research interests include the analysis of continuous and discrete dynamical systems with particular emphasis on difference equation modelling in the biological sciences. □

John Haigh

John Haigh is associate professor in the Department of Mathematics and Statistics. He is here for one year as a visiting professor.

Educated in England at Oxford (M.A.) and Cambridge (Ph.D.), he is on leave from his permanent post at the corresponding department at Sussex University where he has taught since 1966.

His research interests are in probability and statistics, especially in applications to the biological sciences. □

APPOINTMENT

Kenneth F. Harling

Ken F. Harling has joined the School of Agricultural Economics and Extension Education as an assistant professor.

Prof. Harling obtained his B.Sc. (Agr.) at the University of Guelph and his M.Sc. and Ph.D. at Purdue University in agricultural economics.

Prior to coming to Guelph, Prof. Harling held positions at the National Academy of Sciences, the Organization for Economic Co-operation and Development, and the Pennsylvania State University and was a consultant to the World Bank.

Prof. Harling is teaching management control and business policy and research issues in strategic management. □



E. Ann Clark

E. Ann Clark has joined the Department of Crop Science.

Dr. Clark received her B.Sc. and M.Sc. from the University of California (Davis) and her Ph.D. from Iowa State University.

For the past three years, Dr. Clark has taught in the department of plant science at the University of Alberta.

Her area of specialty is crop physiology and production.

At Guelph, Dr. Clark will be responsible for research in forage crop management and will be involved in undergraduate and graduate programs.

She replaces Professor R. S. Fulkerson who retired earlier this year.



Open house at Art Centre

The Macdonald Stewart Art Centre will be open from top to bottom and full of exciting things to see, hear and do Sunday, November 20.

Volunteer tour guides and staff will conduct informal gallery talks, slide presentations will be shown, the workshops will be open for demonstrations of matting, framing and more. At 2 p.m., for the Guelph Art History Society, David Goudy of Guelph, largest dealer in the world of Napoleona, will present a talk "The Image of Napoleon." To demonstrate the effect the Emperor has had on art, architecture, fashion, literature and politics, Mr. Goudy will be complementing his talk with dozens of original prints and artifacts.

Following this talk, at 3:30 p.m., Judith Nasby, Director of the Centre, will present an introduction to the Inuit collection and will also be presenting original art.

Gallery talks run before and after the talks and the behind-the-scenes demonstrations run from 1 p.m. to 4:30 p.m.

Special hands-on studio workshops for children will be offered at 2 p.m. and at 3:30 p.m.

There will also be another special program for children. "The Unguided Tour Game" will be unveiled November 20. This pamphlet is full of poems and games to help young visitors find their way around and learn about art terms and the works in the Art Centre. This tour was conceived by curator of education, Lynn Barbeau, and carried out and developed by Guelph Collegiate Vocational Institute student, Carol Devlin, who worked at the Centre as part of the Art co-operative program in the spring of 1983.

Everyone is welcome to this open house and all events are free. There will also be special offers on the University of Guelph Art Collection catalogue and bonuses for new members.

Details: 837-0010. □

Josef Drenters

An area sculptor, writer and heritage conservationist, Josef Drenters of Rockwood, died November 8.

Three of Drenters' sculptures are part of the University collection and two are in the Macdonald Stewart Art Centre collection. Two of the works in the University Collection are permanently installed on campus — "Column," 1968 (painted steel) is at the MacKinnon building and "Pioneer Family" 1982 (welded iron and steel) is behind the Animal and Poultry Science building.

Drenters' career as an exhibiting artist began in 1958 with a solo show at the Massey Library, OAC. His last major exhibition, "Images of the Madonna," was held at the Macdonald Stewart Art Centre this year. □



THE DEPARTMENT of Fine Art is presenting "Thoughts on Connoisseurship," a lecture by Hayden Maginnis, McMaster University, Wednesday, November 23 at 8:15 p.m. in MacKinnon building, Room 114.

ED VIDEO INC./THE ED GALLERY, in conjunction with the Central Student Association is presenting Noel Harding's sculpture for theatre, "A Silent Place For a Chair to Fall Over," Monday, November 21 to Wednesday, November 23 in Peter Clark Hall.

Mr. Harding is a well known international artist who previously occupied a faculty position in the Department of Fine Art. He has also been a writer/director at the University's television studio and is a founding member of Ed Video Inc.

The choice of Guelph for the initial presentation stems from the necessity to construct, present and prepare it for touring engagements in Europe and North America. This art event has generated much interest partly because of the inclusion of an elephant in the performance.

The performances will run Monday, November 21 from 8 p.m. to 10 p.m., Tuesday, November 22 from 2 p.m. to 4 p.m. and 8 p.m. to 10 p.m., and Wednesday, November 23 from 4 p.m. to 7 p.m.

THE GUELPH COALITION for Aid to Nicaragua needs seeds, gardening tools and donations for its Family Gardens project in Nicaragua. The collection depot is at 334 Gordon St., 821-0961. For further information contact OPIRG, 824-2091 or GIRC, 822-3110.

THE UNIVERSITY of Guelph Civic Orchestra, conducted by Dr. Stanley Saunders, will present its annual fall concert Thursday, November 17 at 8 p.m. in War Memorial Hall. The program will include Mozart's "Overture," "The Impresario, K. 486," the "Concerto for Piano and Orchestra in D Major, K. 537 (Coronation)," Bartok's "Roumanian Folk Dances" and "Symphony No. 2 in B Flat Major" by Schubert.

Tickets for the concert are \$4, general, and \$3, students and senior citizens, and are available from the central box office, University Centre, Ext. 3940, from Orchestra members, or at the door on the evening of the concert.

THE THURSDAY NOON HOUR Concert features Peter Vinograde, piano, Thursday, November 17 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.

For program I at 12:10 p.m., Mr. Vinograde will perform J.S. Bach's "Goldberg Variation." Program II at 1:10 p.m. will include J.S. Bach's "Capriccio on the Departure of a Beloved Brother," and two works by 20th-century American composers: "Fantasia-Variations, Op. 25 (1946)" by Ben Weber, and "Fantasie-Impromptu (1974)" by Jere Hutcheson.

BIG SISTERS Association of Guelph presents Euchreama '83, Thursday, November 24 at the Royal Canadian Legion, York Road, Guelph. Doors open at 6:30 p.m. Play for sponsored points and win a Woods freezer or a luxury weekend at an Ontario hotel or inn with rental car. Tickets are \$3 (includes coffee and dessert). LCBO licensed. For information and sponsor cards, call 824-0800.

THE SOROPTIMIST International Club of Toronto is offering two fellowships of \$7,500 each to persons enrolled as full-time students in a Master's or Ph.D. program or in a program by which to acquire additional professional qualifications in some area of study related to gerontology.

The deadline for applications is March 31, 1984. Details: Sheila S. Hambleton, 8 Kingscourt Drive, Toronto, Ontario M8X 2P6.

APPLICATION FORMS for the International Development Research Centre's Young Canadian Researchers Awards are available from the Centre for International Programs, Ext. 3778.

PROFESSOR ELTON YEREX, Department of Fine Art, is exhibiting a one man show of recent paintings at the University of Toronto, Erindale Campus Gallery until November 22.

THE MACDONALD Stewart Art Centre Gallery Shop offers unusual gifts of hand-crafted jewelry, glass, weaving, silks, stoneware, enamels, toys and wood. Also available are distinctive manufactured designs, books, calendars, cards, games and posters.

A collection of paintings, drawings and original prints are available for rent or to purchase. The Gallery Shop is open Tuesday through Sunday from 12:30 p.m. to 4 p.m.

THE UNIVERSITY Women's Club of Guelph meets on Tuesday, November 22 at 8:15 p.m. in the Guelph Public Library. The speaker will be Audrey Swail; the topic "Women — Dramatic Changes in the Workplace."

THE GUELPH CHESS Championship for players of all skill levels will be held, Friday, November 18 to Sunday, November 20.

A five-round CFC-rated Swiss Tournament with a \$1,000 purse will be held from Friday to Sunday in the Lennox/Addington cafeteria. On Saturday only, a three-round casual tournament will be held in Rooms 334 and 334 of the University Centre.

Details: Hal Bond, Ext. 8327.

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 all members of the University of Guelph community.

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 \$250 clock will be registered in the name of the owner and will include a brass plate engraved with the owner's name. A sample may be seen in Room 273, Johnston Hall. Details: Jim Elmslie, Alumni Affairs and Development, Ext. 3355.

THE NEXT PRODUCTION by the University of Guelph's Drama Department will be *Antigone*, by Jean Anouilh, adapted and translated by Lewis Galantiere.

Directed by Professor Leonard Conolly, and designed by Bruce Koenig, *Antigone* runs for six performances at the Drama Department's Inner Stage from Monday, November 28 to Saturday, December 3.

Tickets are available at the UC box office.

CUPE LOCAL 1334 general elections will be held Thursday, November 17, in Room 442, U.C.

SURPLUS SALES has the following items for sale for public purchase: one TV monitor, Conrac mod. CVB23, Ser.#213738, SD#201, one Iconix computer with papertape reader in cabinet, SD#228; one Basic PDP-9 computer, 8K memory without parity, one extended arithmetic element, type KE09A; one dectape control, type TCO2, three dectape transports, type TU55, SD#307; one digital incremental plotter, CALCOMP mod. 663, Ser.#265, one tape unit CALCOMP 770, Ser.#277 plus sundry items (ink, pens, etc.), SD#318; one AB Dick mod. 204 transparency maker, Ser.#4286, one Thermofax copy machine, mod. 148, SD#232; one printer processor, SD#225; one Ilfoprint process, SD#227, and rollers SD#226; one Canon slide maker, SD#227; one Vibratome-Harvard instrument, SD#980; one new Brinkman thin layer chromatography plating assembly, including plating board, oven and tank racks, spreader and one ultra-violet viewing lamp, SD#969; one Corbin-Farnsworth capacitor discharge DC defibrillator with C-F Scopette, SD#897; four fire extinguishers — one 20-lb. ABC Ansul, one 30-lb. Pyromet Pyrene, one 20-lb. Chemical Pyrene and one 30-lb. Dry Chemical Ansul, SD#931; one AO Stereo Star/zoom stereoscopic microscope (15X oculars, 40X objective zoom/lens 2X magnification lens); one Kryomat for microtome with a base sledge and knife holder, SD#231; 21 white round fibreglass containers, 11 square white fibreglass containers, one Monroe calculator, mod. 370; one rack of rabbit cages on wheels, eight cages, 15" x 11" x 20", one rack of guinea pig cages on wheels, 12 cages, 13" x 10½" x 18", SD#264.

The bid basis closing date for these items is Thursday, November 24.

The following item is available for Departmental purchase only: one Beckman mod. IRSA, infra-red spectrophotometer, ser.#021102-1200035, SD#807.

For further information contact Surplus Sales, Ext. 8139.



Cross-country

Silvia Ruegger has brought another Canadian Inter-university Athletic Union Championship to the University. For the second time in her four-year career, Silvia has won the individual title at the national cross-country championships held in Sudbury. She completed the 4.5 km course in a time of 16:23 and for the second week in a row fended off the University of Western Ontario's Jill Purola to take top spot.

Football

Sam Benincasa, the football Gryphon's linebacker has been nominated for the second consecutive year for the President's Trophy as the outstanding defensive player in the country. Sam will represent the OUAA against three other finalists from the CIAU conferences in Toronto Thursday, November 17.

Volleyball

Saturday, November 26 will be a big day at Guelph as the Volleyball Gryphons host the top Ontario Universities teams in a day-long tournament. Sixteen teams will compete. □

FACULTY AND STAFF ACTIVITIES

Professor Peter Chisholm, School of Engineering, presented a paper, "Estimating Agricultural Benefit," at the Drainage Engineers' conference held in London.

Several members of Professor B. Grodzinski's, Horticultural Science laboratory attended the Sixth International Congress on Photosynthesis in Brussels, Belgium and presented the following papers: **Richard Shingles**, "Serine Synthesis in Pea Leaf Mitochondria and Chloroplasts from Intermediates of the Glycolate Pathway"; Monica Madore, "Stimulation of Net Photosynthesis by K-glyoxylate in Leaf Discs of *Cucumis sativus*"; Lorna Woodrow, "The Effect of CO₂ on Ethylene Release from Leaves"; Bernard Grodzinski, with R. Thompson of Mount Allison University and S. Jahnke of Cologne, "Effect of Leaf Anoxia on Translocation Profiles of ¹¹C and ¹³N Labelled Assimilates in Petioles of *Helianthus annuus* and *Lupinus albus*"; Dr. Michael Porter presented papers, "Regulation of Chloroplast Carbonic Anhydrase by Magnesium and Monoanions," and "CO₂ Enrichment, Growth and Photosynthetic Metabolism of Bean."

Professor J.G. **Hutchison**, School of Agricultural Economics and Extension Education, was invited by the Alberta Cattle Commission to be a resource person at their farm income tax workshop held in Calgary for management and executives of ACC.

He was also invited by Employment and Immigration Canada to speak on farm tax problems to tobacco growers in Burford. He was invited by the student federation of the OAC to participate in a panel discussion on "Controversies in Farm Finance" and was a participant and resource person in the Country Canada television program on income tax and the part-time farmer. Prof. Hutchison also produced two radio tapes with Guus Hazelaar for CJOY-CKLA on "The Problems of Part-time Farming" and co-authored with Professor Gordon Bowman, Animal and Poultry Science, a working paper, Studies on Long-term Strategies for Ontario Agriculture. This paper was presented to Dean's Council and The Foundation for Rural Living.

Jean McDonald, Dean's Office, OVC, attended convocation at the Universiti Pertanian Malaysia to mark the 10th anniversary of the faculty of veterinary medicine and animal science there.

The first meeting of the veterinary alumni association of UPM was also held during Miss McDonald's visit and she participated in an evening ceremony and dinner for the presentation of graduating class awards. A new award of a medal and monetary prize was presented for the first time to honor Dr. D.G. Howell and **Dr. K.V. Jubb** and to recognize the contribution of the OVC.

En route to Malaysia, Miss McDonald met with staff at the United Nations University, Tokyo, concerning fellowship plans which could support assistance to institutions in developing countries from participating institutions in developed countries.

Miss McDonald later met with project and country officers of the Asian Development Bank in Manila and discussed projects in which the OVC had participated in Asia.

At Beijing Agricultural University, Miss McDonald had a series of meetings with senior veterinary faculty members who reviewed their objectives and projected their needs within the Guelph/Beijing Agreement. Dr. An Min, President of the University of Beijing, hosted a dinner at which avenues of assistance for Beijing veterinary faculty were examined.

Professor E.L. Menzie, School of Agricultural Economics and Extension Education, attended the American Agricultural Economics Association Conference held at Purdue University, Indiana. He also attended a conference, Commodity Councils for Growth in the Apple Industry, held in Ottawa. Prof. Menzie is on a two-month CIDA assignment to Pakistan and also plans to visit FAO in Rome.

Professor Martin Nye, Chemistry, attended a conference in Peoria on "Vegetable Oil as Diesel Fuel." He presented a paper entitled "Esters from Rapeseed Oil as Diesel Fuel" co-authored by Professor Peter Southwell, Engineering.

Professor Truman P. Phillips, School of Agricultural Economics and Extension Education, was the Canadian representative at the Food and Agriculture Organization's "Expert Consultation on Ways to Foster Agriculture Trade Through Economic Co-operation among Developing Countries" held in Rome. In addition to assisting with the organization of the meeting, Prof. Phillips introduced a paper "Barter and Bilateral Trade between Developing Countries."

Professor D.H. Pletsch, School of Agricultural Economics and Extension Education, attended the AIC annual meetings in Truro, Nova Scotia, where he presented a paper at the CSE meeting, "Training for Rural Leaders." He has served on the AIC council for the past two years as the Canadian Society of Extension representative. Prof. Pletsch recently addressed the Canadian Agriculture Extension Council meeting in Oakville on "Judging Extension."

Professor John T. Powell, Human Biology, spoke at the annual dinner meeting of the Guelph-Wellington Men's Club — his subject being "The Olympic Games -- Then to Now."

Professor J.C.M. Shute, School of Agricultural Economics and Extension Education, participated in a CIDA mission to Sri Lanka to examine the feasibility of establishing an agricultural extension training program to serve the tropical Commonwealth. This Canadian initiative was announced by Prime Minister Trudeau at the last Commonwealth Heads of Government meeting in Melbourne. The terms of reference specify emphasis on women as food producers. Working with Prof. Shute on the mission was Dr. Helen Abell, a former faculty member. Prof. Shute also participated in the annual meeting of the governing council of the Society for International Development held in Rome. The Council's 24 elected members came from 22 countries. Prof. Shute is the elected member from Canada.

Professor J.C. **Simon**, Consumer Studies, co-chaired a conference on housing alternatives for senior citizens held at Ryerson Polytechnical Institute, Toronto. The conference, initiated and funded by Canadian Housing Design Council, brought together architects, planners, developers, government agency reps and senior citizens. More than 40 panelists provided a detailed examination of a wide range of alternatives.

Professor K. Slater, Consumer Studies, was the keynote speaker at the annual Physics Group Conference organized by the Textile Institute in Leeds, England. He presented the opening paper of the conference, "The Assessment of Comfort," acted as chairman for one of the plenary sessions and summarized the presentations as the closing speaker. The confer-

ence, with a theme "The Physics of Comfort," attracted twice the usual number of delegates.

Members of Guelph's sociological community participated in the sixth annual meeting of the Ontario Association of Sociology and Anthropology held in Toronto. The theme, "Nineteen Eighty-four in Canada: Control, Technological Change and Hard Times" elicited the following contributions: **Professor K. Victor Ujimota**, Sociology and Anthropology, organized sessions on environment, class and life cycle, rural women and work and strains/stresses in life cycle; **Mary Lou Olah**, School of Rural Planning and Development, presented a paper on women entrepreneurs in the rural urban fringe; **Professor Nora Cebotarev** and **Wilda Blacklock**, Sociology and Anthropology and **L. McIsaac**, Agricultural Economics and Extension Education, presented a paper on rural women's work patterns; **Erin Fletcher**, an undergraduate student in Sociology and Anthropology, co-organized and co-chaired the graduate student sessions; **Duncan MacDuff**, a master's candidate, Sociology and Anthropology, participated in a panel discussion on methods for exploring the impacts of micro-technology; **Sandra Webster**, Information Services, organized and chaired a panel discussion on social and psychological effects of office automation with Mrs. Blacklock and **Alison Van Roon**, Institute of Computer Science, as participants; **Professor Sid Gilbert**, Sociology and Anthropology, chaired a panel discussion on "Sociology Journals: Dead or Deadly?," presented a paper with Professor Ian Gomme, York University, on student attrition, and gave the secretary-treasurer's report at the annual general meeting.

Alan Watson, Arboretum, attended the annual meeting of the Council of Outdoor Educators of Ontario held at the Ontario Camp Leadership Centre, Bark Lake. Mr. Watson presented two invited papers "Planning First-Hand Experiences in Interpretive Programs" and "Interpretation and the Conservation Ethic."

Publications

Hoyle, B. and T.J. Beveridge, 1983. "Binding of Metallic Ions to the Outer Membrane of *Escherichia coli*." Appl. Environ. Micro. 46: 749-752 (Microbiology).

McKim, M.K., 1983. Review of H.A. Minden Two Hugs for Survival in Canadian Psychology, 24(4): 266-267 (Family Studies).

Mittal, G.S., H.M. Lapp and J.S. Townsend, 1983. "Drying Wheat with Solid Heat Transfer Medium," J.Sci. Food and A. 34(8): 773-779 (School of Engineering).

Newman, Jay, 1983. Review of W.D. Rubinstein, The Left, The Right and The Jews in Canadian Catholic Review 1(10): 29-30 (Philosophy).

Proctor, J.T.A., 1983. "Effect of Simulated Sulfuric Acid Rain on Apple Tree Foliage, Nutrient Content, Yield and Fruit Quality," Env. and Expt. Bot. 23(2): 167-174 (Horticultural Science).

Rowberry, R.G. and G.W. Anderson, 1983. "The Profitability of Continuous Potato Versus Rotations Including Potatoes and Other Cash Crops: I," Am. Potato J. 60: 503-510 (Rowberry, Horticultural Science; Anderson, Crop Science).

Next Week at Guelph

THURSDAY, 83 11 17

Noon Hour Concert - PETER VINOGRAD, piano, 1210 and 1310, MacK107.

Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.

Apiculture Club - ONTARIO NECTAR SOURCES, R.W. Shuel, 1710, Graham Hall, Rm. 200.

Graduate Seminars - DYNAMICS OF MARINE MAMMAL SKIN, D.J. St. Aubin, 1110, Path220.

Inter-Varsity Christian Fellowship - HE SPOKE TO THEM IN PARABLES: CAN WE UNDERSTAND TODAY, 1845, ASN141.

Faculty Association - COUNCIL MEETING, 1930, Faculty Club Lounge.

Concert - UNIVERSITY OF GUELPH CIVIC ORCHESTRA, 2000, WMH.

Lecture - THE AMBIGUITIES OF FLAUBERT'S MADAME BOVARY, O. Morgan, McMaster, 1400, MacK303.

Resources Management Club - HARP SEAL MANAGEMENT IN THE NORTHWEST ATLANTIC, K. Ronald, 1900, LRS124.

Lecture - TWO-DIMENSIONAL PARTITIONING OF YIELD VARIATION, George Eaton, UBC, 0900, HortSci240.

FRIDAY, 83 11 18

Friday Flicks - MAN, WOMAN AND CHILD, 1930, and LOOKIN' TO GET OUT, 2130, PS105.

Worship - FACULTY CHRISTIAN FELLOWSHIP, 1200, Johnston Hall 157; MUSLIM PRAYERS, 1200, chapel, level 5, UC.

Craft Show - FAIR NOVEMBER, 1000, UC.

Sports - VOLLEYBALL, Guelph at Western, 2000.

Staff Development Opportunities - FUNDAMENTALS OF LEADERSHIP, 0900, UC441, Ext. 3058 to register.

Continuing Education - FISH FARMING, 1900, ASN156, Ext. 3956.

Chess Tournament - L/A cafeteria and UC334 and 335, Ext. 8327.

SATURDAY, 83 11 19

Guelph Field Naturalists - NIAGARA, 0800, OVC parking lot.

Craft Show - FAIR NOVEMBER, 1000, UC.

Chess Tournament - Ext. 8327 for details.

SUNDAY, 83 11 20

Hollywood Nites - BLUE THUNDER, 1930, WMH.

Worship - ANGLICAN/UNITED, 1600, UC441; CAMPUS CHURCH SERVICE, 1030, PS113; CATHOLIC MASS, 1000, CM200.

Guelph Cycling Club - HESPELER, 1000, UC.

International Cinema - CIRCLE OF DECEIT, 2000, PS105.

Sunday Afternoon Walks - INSECTS, 1400, J.C. Taylor Nature Centre.

Guelph Art History Society - THE IMAGE OF NAPOLEON, D. Goudy, 1400, Macdonald Stewart Art Centre.

Craft Show - FAIR NOVEMBER, 1100, UC.

Chess Tournament - Ext. 8327 for details.

MONDAY, 83 11 21

NO SCHEDULED EVENTS

TUESDAY, 83 11 22

Worship - CATHOLIC MASS, 1700, chapel, level 5, UC; CHRISTIANITY AND MARXISM, 1700, UC332.

Our World - DOMINGA: A WOMEN'S SELF HELP GROUP IN BOLIVIA, 1210, UC442.

Meeting - MICROCOMPUTER CLUB, 1900, ICS212.

University Women's Club - WOMEN: DRAMATIC CHANGES IN THE WORKPLACE, Audrey Swail, 2015, Guelph Public Library.

Staff Development Opportunities - PERFORMANCE REVIEW SEMINAR, 0900 and 1330, UC103; OFFICE PROCEDURES, 1900, ASN141, Ext. 3058 to register.

Lecture - INTRODUCTION TO THE USE OF MICROCOMPUTERS IN HORTICULTURE, George Eaton, UBC, 1615, HortSci240.

WEDNESDAY, 83 11 23

Worship - CHRISTIAN DOCTRINE CLASS, 1700, UC334; IMMANUEL FELLOWSHIP, 1900, AS141; ANGLICAN EUCHARIST, 1210, UC301; CATHOLIC MASS, 1700, chapel, level 5, UC.

Clinic - JOB SKILLS, 1800, UC335; HOW TO PREPARE FOR EXAMS, 1900, Library Orientation Room.

Classes - CITIZENSHIP ORIENTATION, 1930, 128 Woolwich St., Ste. 203.

CUSO - INFORMATION MEETING, 1930, UC441; INFORMATION TABLE, UC Courtyard.

Staff Development Opportunities - MICROCOMPUTER CONCEPTS, M.

Brochet, 1330, ICS212, Ext. 3058 to register.

Lecture - THOUGHTS ON CONNOISSEURSHIP, Hayden Maginnis, McMaster, 2015, MacK114.

THURSDAY, 83 11 24

Noon Hour Concert - ERIC AND THELMA WILSON, cello and piano, 1210 and 1310, MacK107.

Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.

Apiculture Club - BIOLOGY OF BEE-EATERS, M. Dyer, 1710, Graham Hall, Rm. 200.

Graduate Seminars - THE RELATIONSHIP BETWEEN STRESS, ADRENAL CORTICAL FUNCTIONING AND HYPONATREMIA IN THE PHOCID SEAL, T.E. Johnson, 1110, Path220.

Inter-Varsity Christian Fellowship - BIBLICAL LIVING: BETWEEN LEGALISM AND LICENSE, L. Delmonte, 1845, UC442.

Meeting - BOARD OF GOVERNORS, 1000, UC424.

Performance - LES BALLETS JAIL, 2000, WMH.

Clinic - CAREER DISCOVERY, 1200, UC429.



Available

Accurate, fast typing, 821-3523, 1730 to 1830; furnished house near University to share with mature female students from Jan. B to Aug. 31, 824-3613.

For Sale

Collier encyclopedia set, contact Kim, 8715; Welch-Allyn diagnostic set including an ophthalmoscope with a nickel cadmium rechargeable battery, attachments and instruction manual. 837-3664; 1979 Polaris Gemini with or without trailer, contact Irene, 3776; Mordaunt-Short English speakers, 2 pair Pageant, 2 pair Sennheiser headphones, 1977 LTD wagon, 824-6139; 1980 BMW, 836-2868; men's winter parka, size 34, 81% down, 822-2261 evenings; 1972 Volvo 142E, 822-7244; 1970 Pontiac Catalina, U.S. license, must sell to non-Canadian, contact Dr. Fisher, 2736; Osborne I computer with 12" monitor, Smith-Corona portable electric typewriter, 2191; Quebec wood stove, contact Carole, 8721; four solid oak chairs with cane seats and backs, maple and pine rope bed, walnut headboard, 822-2357, 1700 to 2130; Regal 84-cup coffee percolator, 3885.

Wanted

Children's car seat, 822-6567; Triumph Tiger Cub, contact Chuck, 3775; part-time babysitter, starting Jan, 12 hrs./week, 823-1738 after 1700; pool table and accessories, contact Mildred, 3609; child's toy-chest, table and chairs, 658-9938 after 1800; daily ride from TO to Guelph, starting January, contact Betty, 2151.

For Rent

Fully furnished 4-bedroom house with large fenced yard, Jan. to July, 836-3285 evenings.

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