

University installs Chancellor McGibbon

One of our proud moments

The autumn sun shone through as the Honourable Pauline McGibbon, Lieutenant-Governor of Ontario, arrived in a horse-drawn carriage for her installation as third Chancellor of the University of Guelph. It was a proud moment for the University as President Donald Forster welcomed Her Honour on the steps of Memorial Hall at the Friday morning Convocation.

The Chancellor, robed and capped in black and gold, accepted for admission candidates for the degrees of B.Sc., M.A., M.Sc. and Ph.D.

Congratulations came from the Prime Minister, read by Wellington MP Frank Maine; the Province, represented by Harry Parrott, Minister of Colleges and Universities, who pointed out the uniqueness of an appointment wedding academic and government bodies; and the other universities of Ontario, represented by Father Roger Guindon, Rector of the University of Ottawa. Speaking in the English and French languages, Father Guindon warmly welcomed Her Honour, the former Chancellor of the University of Toronto, back into the Ontario university system, calling her a person of "extraordinary capabilities commanding a vast range of interests."

The Chancellor called on graduates to develop their interests in community service to repay the debt incurred in acquiring their education. "This is a critical function of your career," she told the graduates. "It is important that each of you has a standard of values

and that you conduct yourself and your affairs according to that standard." Voluntary associations place emphasis on people-wide concerns, she said, and it is "through such meetings for a common cause that the barriers of language, culture and geography can be lowered and maybe even turned into bridges."

Vice-President, Academic, Professor Howard Clark, spoke to the graduates for the President when he told them that they face an uncertain world, but one full of opportunities for which he hopes their years here have fitted them. The President, who is recuperating from a respiratory illness, was able to attend only part of the ceremony.

At the afternoon Convocation, Canadian opera singer Jon Vickers was made Doctor of Music, honoris causa. He warned the graduates to avoid the psychosis in modern society that persuades us to surrender to man's collective power. "It is not possible to escape personal responsibility by surrendering it to the collective," Dr. Vickers said in his address.

He quoted Shakespeare's "to thine own self be true" passage, telling the graduates that by accepting the Bard's challenge, they will not only "turn the world right side up but achieve the joy of living."

Canadian historian D.C. Masters, who was professor of history here for the last eight years of a distinguished career, was made Professor Emeritus at the Convocation. □



President Forster persuaded his doctors that he was well enough to welcome Chancellor McGibbon in front of War Memorial Hall and attend part of the morning ceremony. He was missed at the noon luncheon, the afternoon Convocation ceremony and the tea in Peter Clark Hall.



Her Honour signs the City's Guest Book, while Warden McIntyre and Mayor Jary look on.

Chancellor McGibbon and Vice-President, Academic, Professor H.C. Clark, tuck in a blanket for warmth as they prepare for the open-carriage procession from City Hall to the University.



Barton, Bruce A., 1977. "Short-term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario." *Freshwater Biology* 7, pp. 99-108, (Zoology).

Bobowski, G.S., W.G. Barker, and R.E. Subden, 1977. "The Conversion of [2-¹⁴C] Mevalonic Acid into Triterpenes by Cell-free Extracts of a *Neurospora crassa* Albino Mutant." *Can. J. Bot.* 55: pp. 2137-2141, (Botany and Genetics).

Bower, S.M. and P.T.K. Woo, 1977. "Division and Morphogenesis of *Cryptobia catostomi* (Protozoa: Kinetoplastida) in the Blood of White Sucker (*Catostomus commersoni*)." *Can. J. Zool.* 55: pp. 1093-1099, (Zoology).

Burka, J.F., and P. Eyre, 1977. "Effects of Bovine SRS-A (SRS-A^{bov}) On Bovine Respiratory Tract and Lung Vasculature *in vitro*." *European Journal of Pharmacology*, 44: pp. 169-177, (Biomedical Sciences).

Cairns, J.C., 1977. "Adult Functional Illiteracy in Canada," *Convergence*, International Journal of Adult Education, Vol. X, No. 1, 1977, pp. 43-52, (International Programs).

Campbell, J.L., 1977. "Annihilation Gamma-ray Lineshape Parameters." *Appl. Phys.* 13, pp. 365-369, (Physics).

Campbell, J.L., L.A. McNelles, J.S. Geiger, J.S. Mettitt and R.L. Graham, 1977. "Fluorescence Yields of Double L Vacancy States Produced by KLL Auger Emission in Tantalum." *Can. J. Phys.* 55, pp. 868-877, (Physics, with Chalk River Nuclear Laboratories).

Canne, J.M., 1977. "A New Combination in *Cymophora* (Compositae: Heliantheae: Galinsogineae)." *Madrono* 24: pp. 190-191, (Botany and Genetics).

Chand, N., and P. Eyre, 1977. "Histamine Relaxes Constricted Trachea and Bronchi of Horse." *Veterinary Science Communications*, 1: pp. 85-90, (Biomedical Sciences).

Dale, H.M., and T.J. Gillespie, 1977. "The Influence of Submersed Aquatic Plants on Temperature Gradients in Shallow Water Bodies." *Can. J. Bot.* 55: pp. 2216-2225, (Botany and Genetics, Land Resource Science).

Ememura, T., S. Yamashiro, M.K. Bhatnagar, D.L. Moody and S.J. Slinger, 1977. "Intravascular Fat Globules in the Heart of Pigs Fed Rapeseed Meals." *Research in Veterinary Science*, 23: pp. 59-61, (Biomedical Sciences).

Evans, W.D., 1977. "The Use of Synthetic Octoploids in Strawberry Breeding." *Euphytica* 26: pp. 497-453, (Horticultural Science).

Horton, R.F., 1977. "Leaf Senescence in *Maianthemum canadense*: The Effect of Cytokinins and Gibberellin." *Can. J. Bot.* 55: pp. 2272-2274, (Botany and Genetics).

Jorch, H.H. and J.L. Campbell, 1977. "On the Analytic Fitting of Full-energy Peaks from Ge(Li) and Si(Li) Photon Spectrometers." *Nucl. Instr. Meth.* 143, pp. 551-559, (Physics).

Leibbrandt, G., 1977. "Exact Solutions of the Elliptic Sine Equation in Two Space Dimensions with Application to the Josephson Effect." *Phys. Rev. B*, Vol. 15: pp. 3353-3361, (Mathematics and Statistics).

Leibbrandt, G., and G. McKeon, 1977. "Some Special Solutions of the Elliptic-hyperbolic Sine Equation in 2+1 Dimensions." *Physic Letters*, Vol. 61A, pp. 83-85, (Mathematics and Statistics).

Morris, P.F., and W.G. Barker, 1977. "Oxygen Transport Rates Through Mats of *Lemna minor* and *Wolffia* sp. and Oxygen Tension Within and Below the Mat." *Can. J. Bot.* 55: pp. 1926-1932, (Botany and Genetics).

Peterson, R.L., and J.D. Brisson, 1977. "Root Cap Structure in the Fern *Ophioglossum petiolatum*: Light and Electron Microscopy." *Can. J. Bot.* 55: pp. 1861-1878, (Botany and Genetics).

Rajput, C.B.S., D.P. Ormrod and W.D. Evans, 1977. "The Resistance of Strawberry to Ozone and Sulfur Dioxide." *Plant Disease Reporter* 61, pp. 222-225, (Horticultural Science).

FACS leadership conference

In the informal, yet stimulating, atmosphere at the Bolton Outdoor Education Centre, student leaders in the College of Family and Consumer Studies met for a two-day leadership conference in early September. In its fourth year, this conference is completely organized by students. In addition to sharpening individual leadership skills, it promotes cohesion among the students from the three academic disciplines: Family Studies, Consumer Studies, and Hotel and Food Administration.

The 30 student leaders who attended felt it was an opportunity to get to know each other and discuss time management, motivation, communication and "meeting" strategies. Resource people from across campus conducted sessions on these topics. Participants included: Mrs. M.F. Elrick, Committee on Teaching and Learning; S. Birnie-Lefcovitch and V.W. Utgoff, Student Affairs; A.W. McInnis, Director of Residences and J.W. Kilbury, McLaughlin Library. Dean of the College of Family and Consumer Studies, Professor Janet Wardlaw, and four other faculty from the College attended the conference. □

NEXT WEEK AT GUELPH

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THURSDAY, 77 10 20

Lecture – 25 YEARS OF DEVELOPMENT – INDIA: A CASE STUDY, Prof. Kusum Nair, 20:00, Rm. 442, UC. Sponsored by the Dept. of Political Studies.

Thursday Noon Hour Concert – AARON SKITRI, lute, 12:10 and 13:10, Music Rm. 107, Arts bldg.

Readings in Gurdjieff – 20:45, Rm. 138, Arts bldg.

Duplicate Bridge – 19:15, 8th fl. Arts bldg.

TV – SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 19:00.

Employment Search Program – THE INTERVIEW, 13:00, Rm. 301, UC.

Worship – ANGLICAN-UNITED DISCUSSION GROUP, 13:00, Chapel, level 5, UC; CATHOLIC MASS, 12:00, Chapel, level 5, UC.

Thursday Night Live – SPARTAN, 20:00, PCH, UC.

Meeting – AMNESTY INTERNATIONAL – CHILE GROUP, 19:30, Rm. 335, UC.

Meeting – PRE-VET CLUB, 19:30, Rm. 442, UC.

SIMS – GROUP MEDITATION, 12:00, Meditation Rm. level 5, UC; INTRODUCTORY LECTURES, 19:30, Rm. 226, Arts bldg.

Employment Search Program – THE RESUME AND JOB LOCATIONS/STRATEGIES, and THE LETTER OF APPLICATION, 13:00, Rm. 301, UC.

Video – LES EVENEMENTS D'OCTOBRE (October 1970 in Quebec), 20:00, French House, Lennox C.

Luncheon – CANADIAN SAVE THE CHILDREN, CRAFT DISPLAY, 11:30-14:00, Guelph Armoury.

Additions to Documentation Centre

The Documentation Centre of the Library has obtained the Irish university press collection of British parliamentary papers. This 1,000 volume set consists of selected, significant sessional papers for the period 1800 to 1899. These volumes have been grouped into broad subject areas, each sub-arranged chronologically. While the set can be browsed, direct access to specific relevant information is possible through the use of the nine-volume index which accompanies the set. The index refers the researcher to specific papers within any of the subject groupings by date.

Although this collection has been available within the Library for only a few weeks, it has already attracted the attention of researchers across the Province. One such user has noted that access to this collection will probably save him as much as a year of searching time.

Canadian Newspaper Index

Another addition to the Documentation Centre is the Canadian Newspaper Index, the only published index to the major English-

language Canadian newspapers. At the present time the index does not include any major papers from cities east of Montreal. There are plans, however, to add an eastern newspaper (probably the Halifax Chronicle) in 1978. The index coverage includes the Montreal Star, the Toronto Globe and Mail, the Toronto Star, the Vancouver Sun, and the Winnipeg Free Press.

The Canadian Newspaper Index is thorough, and includes many "see" and "see also" references, in addition to its subject headings. A separate biographical index, and a list of subheadings to be used with certain major index terms are bonus items in this index. Coverage of the newspapers included in this work began with the 77 01 01 edition of each, and the index issue covering the month of May arrived in the Library 77 07 14, which means a "turn-around" time slightly slower than that required for receipt of the Globe and Mail on microfilm.

The call number for the Canadian Newspaper Index is REF AI 1 C3, and it is located in the Documentation Centre, adjacent to the microfilm cabinets. □

BOARD OF GOVERNORS

The Board of Governors has announced the appointments of four new members.

Professor Jack R. MacDonald, chairman of the Department of Physics, came to the University of Guelph faculty in 1975 after spending a year as a visiting professor of electrical engineering at Stanford University. Prior to that he spent eight years as a member of the technical staff of the Bell Laboratories, Murray Hill, New Jersey. During his service at Bell Laboratories, he also served as an Associate of the Faculty of Graduate Studies, Rutgers University, and as a Visiting Research Associate at the Brookhaven National Laboratory, Upton, New York.

Prof. MacDonald is a graduate of the University of British Columbia and a native of Vancouver.

Dr. Donald S. MacDonald, has been in veterinary practice in Toronto since his graduation from the Ontario Veterinary College in 1957.

In 1975, he served as campaign chairman for the University of Guelph Alma Mater Fund. He was chairman of the licensing and registration review board for the Animals for

Research Act from 1969 to 1974. He is a member of the sports committee of the Canadian National Exhibition, and a member of the American Animal Hospital Association. He is a past president of both the Ontario Veterinary Association and the Toronto Academy of Veterinary Medicine.

Dr. MacDonald was born in Toronto and attended Upper Canada College.

Hugh Peacock, of Don Mills, Ontario, served as member of the legislature for Windsor West from 1967 to 1971.

Since 1972, he has been executive secretary of the Toronto Newspaper Guild. He was appointed legislative representative of the Ontario Federation of Labor a year ago. In 1972, he served for a short term as temporary research assistant to Professor Abraham Rotstein, chairman of the research and policy planning committee of the Committee For An Independent Canada.

Prior to his election to the legislature, Mr. Peacock served as research and education director, eastern Canadian region, International Woodworkers of America, and as Research Department representative, UAW,

for Canada. He was active in many community projects in Windsor prior to his election to the legislature.

Mr. Peacock was born in Northern Ireland and was educated in Toronto schools and at Trinity College, University of Toronto.

Robert Kerr, of Chatham, Ontario, is president of Kerr Farms Limited and is active in a number of agricultural organizations.

He is president of the Kent County Cattlemen's Association and a director of the Ontario Asparagus Growers Marketing Board. In addition, he is a member of the Ontario Institute of Agrologists and the Kent County Vegetable Growers Association. He is a member of the Board of Stewards of St. Paul's United Church.

Mr. Kerr is a graduate of the University of Guelph and of Harvard University. He has been president of Kerr Farms since 1970. While a student at Guelph, he served as finance chairman of the University Centre Building Committee, in addition to his activities in student government. □

BRIEFLY

SURPLUS SALE — The following merchandise is now for sale to the general public: 33 Spencer compound microscopes; three stenocord dictaphones; Gestetner duplicating machine; Deihl adding machine; Elliott address machine, Index card cabinet; coffee table; ottoman; two coat racks, a variety of wooden armchairs; two arborite-top tables and ten 8-foot folding tables. All sales are on a first-come-first-serve basis. Cheques will be accepted if proper identification is provided.

One Corningware surface stove unit and a counter and cupboard unit are also for sale on a reserve bid basis. Bids will close at 77 10 14 at 11:00. Contact Kathie Swackhamer, Ext. 2105, for further information.

NOMINATIONS FOR CHAIRMAN — Nominations for the position of chairman of the Department of Mathematics and Statistics are being called for. Suggestions should be submitted in writing by 77 10 31 to the chairman of the selection committee, Professor E.B. MacNaughton, Dean of the College of Physical Science. The appointment is to be effective 78 07 01.

TORONTO DANCE THEATRE — University Centre and the Student Federation of the College of Arts are sponsoring an evening performance of one of Canada's most exciting contemporary dance companies, the Toronto Dance Theatre, Friday, 77 10 14 in War Memorial Hall at 20:30. Tickets are \$3.00 for students, \$4.00 general and are available at the central box office, level 1, University Centre.

PREREGISTRATION — Full-time undergraduates are asked to check their campus mail boxes for information regarding preregistration, Monday 77 10 24 to Friday, 77 11 04.

BOOK BEFORE 15:00 — The Central Reservations staff asks that bookings of facilities and services be made before 15:00 each day.

AUDUBON SCHOLARSHIP — The Guelph Audubon Screen Tours Award was raised to a minimum of \$500 this year. Applications for this award, given to any student who has been active in a program to further the cause of conservation, should be submitted now to the assistant registrar, awards, level 3, University Centre.

The Guelph Naturalists' Club and the National Audubon Society presented the first of the Audubon Wildlife Film Series in War Memorial Hall last Saturday. The next program will be a slide presentation of "Bird Islands of the North Atlantic" by Stephen Kress, Friday, 77 10 28. Future programs include Alvah W. Sanborn's "Allagash Country," 77 11 26; Bernard Nathanson's "Okavango" and "Arribada," 78 01 14 and Tom Sterling's "The Marsh — A Quiet Mystery," 78 04 01. All programs will be presented at 20:00 in War Memorial Hall. For more information contact Professor A. Salvadori, Department of Computing and Information Science, Ext. 2634.

"THE TEACHER IN ONTARIO IN 1977" — is the theme of the 26th annual conference of the Ontario Association for Curriculum Development, 77 11 10 to 77 11 12 at the Chateau Laurier Hotel in Ottawa. The keynote speaker will be Professor David Clee, Faculty of Education, University of Toronto. OACD has copies of the reports of the 25th annual conference on "Current Curriculum Concerns" at \$3.00 per copy and reports on "Curriculum for a Canadian Identity," (1970), \$2.00; "Values in the Curriculum," (1971), \$2.00; "Curriculum Development: Priorities, Process, Produce and Problems," (1974), \$3.00; and "Communications: A Focus for Partnership in Education," (1975), \$3.00.

Registration forms for the conference and report orders may be made by writing the OACD, 1260 Bay Street, Toronto, Ontario, M5R 2B1.

ACCEPTED INTO MEDICAL SCHOOLS — Professor J.D. Brooke, chairman of the Department of Human Kinetics, reports that three students from the human biology/human kinetics programs have been accepted into Ontario medical schools this fall. Elizabeth Williams, a recent graduate from the human biology in the B.Sc. honors degree program, and Marion Thompson, a fourth year student in the Honors B.Sc.(H.K.) program, have both been accepted by the medical school of the University of Toronto. In addition, Tom Elmslie, who graduated this fall as the first student from the new Master of Science program in human kinetics, will be taking up a place at the medical school at McMaster University.

DAIRY JUDGING TEAM — A team of four OAC students competed in the Intercollegiate Dairy Cattle judging contest at the Eastern States Exposition, W. Springfield, Massachusetts recently, placing seventh out of 13 teams. Members of the team were Mark Comfort, Ivan DeJong, Ken McNabb, and Dave Larmer (alternate). Mr. DeJong placed 10th high individual and third judging Brown Swiss. The team, coached by Professor D.G. Grieve, Department of Animal and Poultry Science, was selected from a group of interested students who participated in a practice judging tour in September.

VISITORS — Recent visitors to the McLaughlin Library have included Mrs. V. Swan, Librarian of Riverina College, Wagga Wagga, N.S.W., Australia, and Miss Mary Ronnie, national Librarian of New Zealand. Miss Ronnie was particularly interested in the Guelph document system, which she hopes to use to organize government publications in the libraries of New Zealand.

Snowy Owl causes \$60,000 damage

Study suggests ways to remove birds from airport

Researchers in the Department of Zoology have been studying the conflicts which occur when birds and their mechanical counterparts try to occupy the same territory. Professor R.J. Brooks recently directed a research team whose ultimate objective was to reduce the number of bird-plane collisions at Toronto International Airport.

Prof. Brooks estimates that the airport experiences four or five such collisions every year. Although none of the collisions has resulted in an actual plane crash or human injury at Toronto, the potential danger exists and the physical damage to a plane can be extensive. Even a small dent in a wing means the plane must be grounded for repairs and the passengers delayed. Prof. Brooks's study was given impetus by a \$60,000 bill for repairs to a jet engine which was damaged when a Snowy Owl flew into it during take-off.

The study was commissioned in 1974 by the National Research Council's Associate Committee on Bird Hazards to Aircraft. It involved Prof. Brooks and graduate students James Baker and Robert Steele who conducted the field work at Toronto International Airport.

They found a predominance of open country birds of prey such as Red-Tailed Hawks, Rough-Legged Hawks and Snowy Owls. Not only does the airport location coincide with the natural migration routes of these birds, but it provides an ideal hunting environment and an abundant food supply. Mr. Baker found that the hawks and owls feed almost solely on Meadow Voles, which are attracted to the grassy areas and old fields on the airport property.

During the first survey year Mr. Steele found a very high population of these mouse-like mammals, estimating 1,000 of them per hectare in one area of the airport. The over-all average of 200 voles/hectare was still considered high. The hawk population was estimated at 25 that first year, but dropped to 10 during the second survey year as the vole population also decreased. This fact, as well as several other lines of evidence, suggests that the key to eliminating the bird hazard is to eliminate their source of food.

The research report includes a number of recommendations which the three researchers feel may discourage the voles from the airport property. It suggests that preferred habitats such as old fields and lowland areas be eliminated. It recommends converting these fields to agriculture with emphasis on vegetable crops and management techniques which will not attract other types of birds. Grain and corn crops should be avoided, suggests the report, especially if the straw must be left in the field, thus providing food and snow cover for the voles. It also indicates that more pas-

Professor R.J. Brooks, right, examines one section of an airplane engine which was damaged by a Snowy Owl. The owl flew into the plane's pathway during take-off at Toronto International Airport. Also pictured are graduate students Robert Steele, left, and James Baker.



ture areas and shorter grass in mowed areas would reduce the numbers of Meadow Voles, as would proper drainage of wet areas and periodic burning of serious problem areas.

Recommendations aimed at the birds themselves include the elimination of large areas and perches. It also suggests a continuation of the trapping program. This method of bird removal is used by many airports, says Prof. Brooks, but is only moderately successful. Although those birds moved from the airport property do not generally come back, they are quickly replaced by others. But if their food supply, and consequently their own numbers, were reduced, the trapping would prove more successful.

Several of the recommendations have been implemented, says Mr. Baker, but their success cannot be measured until the late fall and winter months when the vole and bird populations generally reach their peak. □

JOB OPPORTUNITIES

Supervisor, Student Accounting, Bursar's Office.

Salary commensurate with qualifications and experience.

Secretaries, two positions, President's Office. Salary range \$148.68-\$214.52.

Stenographer, Pathology. Salary grade 003. Salary range \$133.81-\$178.42.

Technician, Pathology. MTS 3. Salary range \$178.42-\$259.13.

Delivery/Materials Handler, Grounds. Position number 023. Job rate \$5.44, probation rate \$.20 per hour lower than job rate.

Stenographer, Alumni Affairs and Development. Salary grade 003, salary range \$133.81-\$178.42.

Laboratory Technician, Biomedical Science. MTS 3, salary range \$178.42-\$259.13.

Technician, Microbiology (temporary). MTS 1. Salary range \$133.81 - \$197.53.

Technician, Land Resource Science. MTS 4. Salary range \$212.40 - \$305.86.

Technician, Land Resource Science, temporary. MTS III. Salary range \$178.42 - \$259.13.

Technician/Technologist, temporary, Land Resource Science. MTS 4. Salary range \$212.40 - \$305.86.

Reception/Dispatch Clerk, Computer Operations. Salary grade 2, salary range \$124.25 - \$161.42.

Library Assistants, temporary part-time, Library. Salary grade 2, salary range \$3.55 - \$4.61.

For further information please see bulletin boards or call Ext. 3058 or 3059.

PD conference in nutrition, dietetics

The Guelph Conference for Professional Development in Nutrition and Dietetics, to be held Friday, 77 10 28 at the University, will bring physicians and nutritionists together to explore therapeutic dietetics. Professor J.E. Miles, Department of Family Studies, who is co-ordinating the conference, notes that practising dietitians can earn continuing education points through the Ontario Dietetic Association for attending the conference. She hopes that nutritionists and dietitians from all over Ontario, particularly the north, will attend.

During the morning session, Dr. Ruth Kay, a nutritionist, and Dr. Steven M. Strasberg, a medical doctor, will discuss treatment of the critically ill patient. Both are on the faculty of the Department of Surgery, University of Toronto and are doing extensive research in intravenous feeding and therapeutic diets for the critically ill.

Dr. J. Fraser Mustard, Dean of the Faculty of Health Sciences at McMaster University, and chairman of the federal government's Committee on Diet and Cardiovascular Disease, will present his first public talk on the committee's report, which was released in the spring. His presentation will outline the dietary guidelines for improved health and life expectancy of Canadians as recommended by this committee.

The afternoon session, "Program Evaluation in Nutrition and Dietetics," will be chaired by Professor R.M. Barham, chairman of the Department of Family Studies. This session, says Prof. Miles, will be of interest to both therapeutic dietitians and community nutritionists.

In keeping with the nutritional tone of the meeting, juice will replace coffee during morning and afternoon nutrition breaks. □

FACULTY ACTIVITIES

Manpower Recognition

Ian A. White, co-ordinator, Placement Services, Counselling and Student Resource Centre, is the recipient on behalf of the University of a plaque given in recognition of the University's contribution to and active involvement in Canada's national Hire-A-Student program. The certificate was presented by the Department of Manpower and Immigration and the Canadian Chamber of Commerce.

Returns to Ghana

Dr. R.K.G. Assoku of the Faculty of Agriculture, University of Ghana, has returned to his home university after spending a sabbatical year in the Department of Veterinary Microbiology and Immunology. During his stay at Guelph, Dr. Assoku worked on the disease of trypanosomiasis in association with Professor I.R. Tizard. Five scientific papers have been prepared from their work.

Rural Sociologists

Professor E.A. Cebotarev, Sociology and Anthropology has been elected to the 1977-1978 Rural Sociological Society's nomination committee. The Rural Sociological Society, based in the United States, is also the professional association for Canadian rural sociologists.

Prof. Cebotarev has also been invited to become a member of the Canadian Man and Biosphere Committee for the next two years.

Canadian Jewish Congress

Bernard Katz, Library, has been appointed vice-chairman of the Educational Cultural Committee of the Canadian Jewish Congress, Central Region. This committee serves the communities in Ontario, outside of Toronto, in the areas of formal and informal adult education, special children's programs, placement of teachers, and in planning the biennial regional education conference.

Returns from Sabbatical

Professor B.L. Raktøe, Mathematics and Statistics, has returned to the University after spending his sabbatical year at the University of Hawaii, University of Illinois at Chicago Circle and Stanford University. While at these universities Prof. Raktøe carried out joint research with colleagues and gave invited seminars and colloquia lectures on the "Design and Analysis of Experiments."

Prof. Raktøe has accepted the invitation from the National Research Council to become a member of the grant selection committee for pure and applied mathematics for a three-year term as of 77 07 01.

Travels and Seminars

Professor W.L. Grovum, Biomedical Sciences, attended the 6th International Conference on the Physiology of Food and Fluid intake in Paris, France and presented a paper entitled "Factors That Decreased Food Intake By Sheep."

Norman Lightfoot, cinematographer with the Office of Audio Visual Services, has returned from seven weeks at Baffin and Ellesmere Islands where he filmed the inter-relationship between the Eskimo and seals, muskox and walrus.

Professor Ranald Nicholson, History, read a paper on "Scottish Monetary Problems in the Fourteenth and Fifteenth Centuries" at the Symposium on Scottish Monetary Affairs held under the auspices of the Ashmolean Museum, Oxford.

Professor Stanley Saunders, Music, conducted the Brantford Symphony Orchestra with guest artists Hagood Hardy and his ensemble, at the Spring Carousel Pops Concert in Brantford, Ontario.

He was also recently guest adjudicator at the Annual Maritime Band Festival in Moncton, N.B.

Professor G.F. Townsend, Environmental Biology, has just returned from Sweden where he spent four days at the request of the Swedish International Development Agency reviewing an apiculture development program for Guinea-Bissau.

Professor B.N. Wilkie, Veterinary Microbiology and Immunology, spent three weeks in Nigeria during August, sponsored by the Commonwealth Veterinary Interchange Fund. He visited faculty at the University of Ibadan and the Federal Veterinary Research Station.

Professor Dan Yarmey, Psychology, attended the International Conference on Love and Attraction held at University College of Swansea, Wales. He presented a paper entitled, "The Effects of Attractiveness, Feature Salience and Liking in Memory for Faces."

Elected president of CSAE



Professor Jack Pos, School of Engineering, was elected President of the Canadian Society of Agricultural Engineering (CSAE) at the Society's recent annual meeting.

The CSAE is an affiliate of the Agricultural Institute of Canada (AIC), and the annual meeting was held in conjunction with the annual meeting of AIC held recently at the University.

Prof. Pos has conducted extensive research in farm structures and in waste management. In 1974 he was awarded the Canadian Sheet Steel Buildings Award for "outstanding work in the structural field in teaching, research, extension, or industry." His work has included standardized farm building plans, labour saving on the farm, and early development with open-front buildings for livestock. He has also conducted research in improved roof truss design, barn ventilation and feeding systems.

The CSAE is a professional society representing all agricultural engineers across Canada, and in addition has many members in the United States, United Kingdom, Europe, and Asia. It has just recently been designated a corporate body under the Canada Corporations Act. □

CANADIAN EDUCATION SHOWPLACE '77—

Free admission tickets for this exhibition, 77 10 18, 77 10 19, and 77 10 20 at the Queen Elizabeth building, Exhibition Place, Toronto, are available from the Department of Information, Ext. 3863. It is Canada's largest annual exhibition of products and services for educators.

Teaching and Learning grants awarded for faculty projects

The Council of Ontario Universities Committee on Teaching and Learning has awarded the University a \$45,000 institutional grant to fund its work in improving teaching and learning. The University Committee on Teaching and Learning has, in turn, announced support of some 22 faculty project proposals.

Prior to 1976-1977, the Council awarded grants on an individual project basis with professors applying directly to the COU Committee. It now emphasizes the overall university objectives on teaching and learning through the institutional granting method. In applying for the 1977-1978 grant, Guelph's Committee on Teaching and Learning identified six areas of instructional development as needing support: teaching skills, student learning skills, evaluation of teaching and learning, special projects, teaching materials and activities sponsored by the Committee.

Among the 22 projects to be supported this year, the largest single allocation amounts to

\$7,000 and will be used by A.P. Auger of the Counselling and Student Resource Centre and Dr. D.H. Upton, special advisor, Office of the Provost, to further the development and implementation of a learning skills program for students.

Two projects will receive financial support of \$3,000 each. Professor V.S. de Kleer, Biomedical Sciences, will prepare a "Photographic Atlas of Bovine Anatomy" and a computer system for applied statistics courses will be developed by Professors J.D. Holt, J.J. Hubert and E.M. Carter, Mathematics and Statistics, and Professor A. Sheth, Institute of Computer Science.

The following projects will receive support of \$2,000 to \$3,000: Professor H.W. Chapman, Biomedical Sciences, will examine learning problems specific to the first year at OVC; Professor H. Hogan, English, will complete the 'Lingo' series of games on writing

clarity; Professors C.E. McNinch, Continuing Education, and H. Crawford, Horticultural Science, will develop a multi-media study unit to be used by students enrolled in the OAC and Diploma Course; Professor G. Rubio, English, will continue research on student writing and development of a remedial writing skills workbook and Professor R.G. Thompson, Pathology, will prepare an audio-visual program on the cough.

The Teaching and Learning Committee will also support faculty projects in the Departments of Consumer Studies, Family Studies, Sociology and Anthropology, Psychology, Engineering, Zoology, Chemistry, Veterinary Microbiology and Immunology, and Agricultural Economics and Extension Education. The Committee has retained over \$8,000 to sponsor workshops on campus, to fund special projects such as materials for library orientation, or to send people to workshops and conferences in other centres. □

Winegard Visiting Professors named

Dr. Gavin F. Wilson, a dairy scientist from New Zealand, and Gordon Spoor, an agricultural engineer from England, have been named Winegard Visiting Professors for 1978. A third visiting professor will be named to take up a one-semester visiting position in OAC next year.

Dr. Wilson, currently here on sabbatical from Massey University in New Zealand where he is senior lecturer in dairy husbandry, will be the Winegard Visiting Professor from 78 01 01 until 78 04 07. Dr. Wilson has published many papers on the nutritive characteristics of various feeds for cattle and sheep, and is presently giving some lectures while on sabbatical in the Department of Animal Science. He may be located in Room 122 of the Animal Science/Nutrition building, Ext. 3647.

Gordon Spoor will take up his position as Winegard Visiting Professor in the School of

Engineering in August, 1978, and stay for three months. He is Reader in Applied Soil Physics, National College of Agricultural Engineering, Cranfield Institute of Technology, England, and is concerned with soil-plant-water relationships. He has acted as consultant on rural development, irrigation and soil properties to projects in Sudan, India, Nigeria and Syria.

The Winegard Visiting Professorship rotates among the colleges, each of which may name one professor for a year or several for short-term appointments. OAC will name one more visitor for the spring semester.

The Winegard Visiting Professorships are a project of the Alma Mater Fund. The Fund is also sponsoring Alma Mater Visiting Professorships in OVC and one each in the Colleges of Arts and Social Science. No one has been nominated as yet by the College deans. □

Symposium on agricultural history

Early settlements in Ontario provide the theme for the University's second annual symposium on The Agricultural History of Ontario. Scheduled for Saturday, 77 10 22, the symposium will be held in the Physical Sciences building.

The one-day program will discuss factors which influenced the settlement of Ontario such as the land survey system, transportation and technology. It will also describe the characteristics of these early settlements, activities, and farming methods used by the early settlers.

Like last year's initial seminar on The Agricultural History of Ontario, this symposium should attract history buffs and people interested in agriculture. Participants will include members of provincial historical societies, libraries and museums, officials from the Ontario Ministry of Agriculture and Food and geography and history faculty members from various colleges and universities.

The list of lecturers includes such historical authorities as Norman Ball of the Public Archives of Canada, Alex Ross of the Archives of Ontario, J.E. Hietala from the Ontario Ministry of Natural Resources, University of Western Ontario Professors C.E.J. Whebell and J.J. Talman, and Guelph faculty members, Professors F. Dahms, Department of Geography, and T.A. Crowley, Department of History. □

Artificial spawning of milkfish

Good fisheries news for Philippines

Professor Hugh MacCrimmon, Department of Zoology, has received information from one of his graduate students, Antonio Villaluz, that a major breakthrough has been made in the scientific culture of milkfish. The milkfish is the national fish of the Philippines, and an important source of protein there and in other southeast Asian countries.

Working in an isolated laboratory at Pandan on the tropical island of Panay a small group of scientists have succeeded in inducing, by hormonal injection, the artificial spawning of milkfish.

Milkfish have been cultured artificially in freshwater and marine ponds by Philippine fish farmers for hundreds of years with yields as high as 2,000 kilograms per hectare. The fish reach a marketable size in only a few months, without need for artificial food or feeding. Until recently, fish farmers have had to depend solely on the collection of millions of newly-hatched wild milkfish which usually congregate at well-defined locations along the seashore. Here, they are netted by primitive methods before shipment to the various commercial fish farms. However, the annual production and availability of the tiny fish along the sand beaches is greatly affected by weather and related biological phenomena.

The supplies of young milkfish necessary to sustain the fish farming industry are unreliable and the production of needed protein for human consumption varies greatly from year to year. There appears to be an insatiable market for milkfish within the Philippines which can never be met by traditional methods of collecting wild larvae

from the sea. So important is the natural production of young milkfish in the sea that it is unlawful for fishermen to catch parental stocks of adults from Philippine waters at any time.

As part of the milkfish project the parent fish were taken in Japanese-built nets operated by native fishermen in the South China Sea near the Pandan Laboratory. The fertile eggs spawned from these fish were successfully hatched and reared in laboratory tanks, beginning a pilot aquacultural operation which is viewed as the first step in revolutionizing the traditional milkfish farming industry with far-reaching social and economic benefits to the people of southeast Asia.

The research is a priority project of the Southeast Asian Fisheries Development Centre with headquarters at Manilla and Tigbaun, and it receives some financial support from the Canadian International Development Research Centre. The on-site Canadian advisory is Dr. Wm. Vanstone, an associate member of the graduate faculty in the Department of Zoology. Dr. Vanstone serves on the supervisory committee of Mr. Villaluz who, after the recent successes in milkfish culture at Pandan, is examining morphometric and growth variability among various wild stocks of the species in order to provide a basis for future genetic and strain development. It is hoped that the research will lead to improved domestic production of milkfish freshwater, estuarial and marine aquasystems. □



HELP project leader Ab Mohammed presents Professor L. Busch, Department of Environmental Biology, with a letter of thanks from the Hillcrest Training School for Boys. Prof. Busch and OAC Dean C. Switzer were responsible for loaning a University microscope and prepared slides for use at the training school. In turn, Prof. Busch gave Mr. Mohammed a copy of the OAC Centennial publication, "Selected Exercises in Biology," for future use at the training school. The HELP volunteers have use of University facilities for the Hillcrest project on a regular basis. The group's work with the boys is in its eighth year and is considered one of HELP's most successful projects.

BC might have been "Bucarelia"

British Columbia might have been Spanish-speaking had Spain's "divine right" to rule America not been foiled by other countries. Professor Tomas Bartoli told a group of students and faculty on campus recently. The University of British Columbia professor was speaking on the presence of Spain on the west coast of Canada in the 18th century.

A decree of the Spanish Pope Alexander VI had claimed America for Spain after Columbus's voyage. However, Spain, established in Mexico, was slow about colonizing the north west coast, and it was not until the 1760's that colonization of California began. Soon after, worried by the Russians "nosing around in the north", the Spanish began a series of voyages along the coast of British Columbia and Alaska, one of the last uncharted coastlines of the world, Prof. Bartoli said.

Between 1774 and 1788 the Spanish made several voyages north, travelling as far as the Alaska Panhandle, sailing around the Queen Charlotte Islands and establishing a settlement

at Nootka mid-way along the west coast of Vancouver Island. However, it was Captain Cook who made the coast known. The British, superior in terms of diplomacy, publicized Cook's expeditions while the Spanish people didn't know about the years of Spanish exploration on the west coast until 100 years later.

The conflict over Nootka brought the two countries to the brink of war, and resulted, at the height of the negotiations, in a new production on the London stage, an opera called "Nootka Sound or Britain Prepared."

In the end, the Spanish officer in charge of Nootka destroyed the few buildings, and Britain won the site through negotiations. Although Spain continued to explore the south east coast of Vancouver Island, the Spanish presence in Canada was finished by the end of the 18th century, and the possibility of British Columbia's becoming "Bucarelia," after the Viceroy of New Spain, faded into obscurity. □

Reciprocal program between OVA, Library

The Ontario Veterinary Association (OVA) and the Library have established a trust fund for the purchase of materials to be utilized jointly by the Association and the University community.

These materials, which will be housed in the Veterinary Science Division, will be available to the University community to supplement and complement the regular teaching program of OVC. The Association will use the material as a part of OVA's continuing education programs for practising veterinarians.

From this fund, which is to be administered by the Library, 10 video-cassettes have been purchased and deposited in the Veterinary Science Division. These cassettes deal with forelimb and hindlimb lameness, cryptorchidism, and gastrointestinal parasites as they relate to the horse.

Previously, the OVA has made the Library a depository for audiotapes of scientific sessions held at OVA annual meetings and has placed some government-sponsored videotapes in the collection. In return, the Library has made its automated data-base search facilities available to OVA and to practising veterinarians at a lower cost than would normally prevail for non-University users. □

O'Keefe scholarships awarded

Twelve Carling O'Keefe scholarships valued at \$5,200 were presented to students in the University's School of Hotel and Food Administration program 77 10 03 by Graham Leggat, director, public relations, Carling O'Keefe Breweries of Canada Limited.

The company offers two entrance scholarships of \$700 each on the basis of high marks in the final year of secondary school. Winners this year are Patricia Cook of Belleville, and Mary Ann Dekker of Mississauga.

Nine in-course scholarships of \$600, \$400 and \$200 are awarded to the three top students in the first, second and third years of the program. Susan Lennox of Belleville, Mary-Ellen Ross of Guelph and Claire Williams of Burlington, were first, second and third respectively in the first year. Karen Worsencroft of Peterborough, and Rodney Muir of Burlington, were first and second respectively in the second year with third being shared by Judith Kitchen of Lynden, and Janet P. Hew of Willowdale. The winners in the third year are Cindy Dundon of Kingston, Evelyn Hill of Cobden, and Harris Chan of Agincourt.

Carling O'Keefe Limited has participated in the scholarship awards program since the establishment of the University's School of Hotel and Food Administration program in 1969. Since that time students have shared annual awards totalling \$59,000. The awards were presented to the students following a dinner held at the University attended by Professor H.C. Clark, Vice-President, Academic, representatives of Carling O'Keefe Breweries of Canada Limited, and faculty members of the School of Hotel and Food Administration. □



One of 12 Carling O'Keefe Scholarship recipients, Judith Kitchen of Lynden, with Grant Leggat, director of Public Relations for Carling O'Keefe Breweries of Canada Limited, left, and Professor H.C. Clark, Vice-President, Academic.

Andras discusses research

The Honourable Robert Andras, President of the Treasury Board, visited the campus recently during the tour of the flying caucus of the federal liberal party in the Guelph area.

His informal talks with University officials offered an opportunity for Dean W.E. Tossell, Office of Research, to discuss with the federal cabinet minister research programs and potential at the University of Guelph, as well as federal research funding policies, and the importance of maintaining a significant level of university research in Canada.

Although Mr. Andras indicated that the federal budget will be under severe pressure for the immediate future, Dean Tossell is optimistic. He believes that the tone of the talks indicated continued federal research support at significant levels. □

PERSONALS

Accommodation Available

For Rent — Three-bedroom house, 3656; Three-bedroom condominium on Water Street, 824-9002; Two bedroom apartment, 77 10 15 to 78 04 15, 822-3704; Four-bedroom farm house and barn on Highway 86 near Guelph, 3230; Student accommodation, 822-2946; House from mid-December to late August, 2780; Furnished two-bedroom apartment, Pensacola, Florida, 843-2081.

For Sale — Three bedroom insulated cottage on 250' rocky point in Haliburton, 2187.

Accommodation Wanted

To Rent — Family home for visiting professor from England in the Department of Psychology for winter semester, 1978, 2107; Room with cooking facilities for visiting professor, 2602.

Goods and Services

Babysitting, 821-3728; Ride needed daily from Toronto to Guelph, 836-8595; Seamstress, 658-9952; Will board horses, 8725; Home wanted for two cats, 3301; Babysitter wanted for weekends, 823-1952; Will tutor in French, 3164; Will tutor in English, 824-9145; Typing, 823-9936; Piano teacher wanted, 822-0503; Middle-aged woman requires male partner to join a beginner's square dance group, 822-8072; Ride needed from Hamilton to campus daily, 388-3772; Ride or riders wanted, Palmerston/Harriston area to Guelph, daily, 3839.

Next Week at Guelph

THURSDAY, 77 10 13

Exhibition — SCULPTURE BY ANDREAS DRENTERS, Arts building.
Lecture — "ON SLEEPING WITH AN ELEPHANT," Dr. D. Paarlberg, 20:00, Rm. 113, PS. J.S. McLean Memorial Lecture.
Thursday Noon Hour Concert — ARIOSIO TRIO, 12:10 and 13:10, Music Rm. 107, Arts bldg.
Octoberfest — 20:00, The Keg, UC.
Worship — ANGLICAN-UNITED DISCUSSION GROUP, 13:00, Chapel, level 5, UC; CATHOLIC MASS, 12:00, Chapel, level 5, UC.
Duplicate Bridge — 19:15, 8th fl. Arts bldg.
Thursday Night Live — BOND, 20:00, PCH, UC.
Readings in Gurdjieff — 20:45, Rm. 138, Arts bldg.
TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 19:00.
Employment Search Program — THE INTERVIEW, 13:00, Rm. 301, UC.
Meeting — NAVIGATOR FELLOWSHIP TRIPLE 'S', 20:15, Rm. 442, UC.
Theatre — A SERIES OF SHORT PLAYS BY CHARLES M. TANNER, International Repertory Theatre, Los Angeles, 19:30, WMH.

FRIDAY 77 10 14

Last day for submission of student petitions.
Homecoming '77 — CBS BIO-BASH, sponsored by the College of Biological Science Alumni Association, 20:30, Gryphon Room, Alumni Stadium.
Colloquium — EXPERIMENTAL METHODS FOR SOCIAL POLICY RESEARCH, Dr. G. Fairweather, Michigan State University, 12:30, Rm. 442, UC. Sponsored by the Department of Philosophy.
Maranatha Night — 19:30, Rm. 103, UC. Sponsored by University Bible Studies.
Worship — MUSLIM JUMA PRAYERS, 12:30, Chapel, level 5, UC.
Tropical Fish Sale — 09:00, courtyard, UC. Sponsored by the Zoology Club.
Theatre — THE TORONTO DANCE THEATRE, 20:30, WMH.
Oktoberfest — THE KEG, 20:00, UC.
United Way — ORGAN CONCERT by Dutch organ virtuoso Feike Asma, 19:30, St. George's Anglican Church, Guelph.
Free Film — MACBETH, 19:30 and 21:00, Rm. 105, PS.
Fellowship — GUELPH CHINESE CHRISTIAN FELLOWSHIP, 19:00, 8th fl. lg., Arts bldg. Speaker is Peter Ma.
TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 19:00.
Video Tape Program — HISTORY OF THE BEATLES, 11:00 and 15:00, Rm. 103, UC.
Paradise Enroute — Eugene Benson, David Bare, Peter Taylor, Bill Burrill, Peter Vaughn, and Stephen Tustin, 12:00, Music Rm. 107, Arts.
Colloquium — THE ROLE OF SUBUNIT INTERACTIONS IN ENZYME STRUCTURE AND FUNCTION, Dr. W.W. Chan, McMaster University, 15:30, Rm. 121, PS. Sponsored by the Guelph-Waterloo Centre for Graduate Study in Chemistry.

SATURDAY, 77 10 15

Homecoming '77 — HOTEL AND FOOD ADMINISTRATION ALUMNI ASSOCIATION BRUNCH AND MEETING, 11:00, Rm. 106, Macdonald Stewart Hall; BARBEQUE CANCELLED. HOMECOMING PARADE, 11:00, beginning at South Ring Road; GUELPH GRYPHONS vs WATERLOO WARRIORS FOOTBALL GAME, 14:00, Alumni Stadium; ALUMNI RECEPTION, 18:30, Cutten Club, College Avenue East; ANNUAL ALUMNI DINNER-DANCE, 19:30, Cutten Club. STUDENT PUB, at half time, Gryphon Rm. Alumni Stadium, and following the game. Note: The Whippetree will be open from 11:30 to 14:00.

UGCSA Homecoming Concert — DAN HILL, 20:00, Athletics Centre.
Games Room — FALL TABLE TENNIS HANDICAP, all day.
Homecoming Special — OKTOBERFEST, 16:00, PCH, UC.
Sports — RUGBY, with Western, 14:00 and SOCCER, with Laurentian, 14:00.

SUNDAY, 77 10 16

Seminar-Discussion — THE ISSUE OF CANADIAN IDENTITY, Prof. S. Del Clarke. 11:00, Rm. 132, Arts bldg. Sponsored by the Guelph Unitarian Fellowship.
Cine-Series — KING KONG, 19:00 and 21:30, WMH.
Worship — CAMPUS CHURCH SERVICE, 10:00, Rm. 442, UC, sponsored by University Bible Studies; CAMPUS WORSHIP SERVICE, 11:00, Chapel, level 5, UC; CATHOLIC MASS, 11:00, WMH; ZOHR PRAYERS AND QURANIC DISCUSSION, 13:15, 9th fl. Arts bldg. For transportation to downtown churches call 836-2892.
SIMS — ADVANCED LECTURES FOR TRANSCENDENTAL MEDITATORS, 19:30, 9th fl. lge, Arts bldg.

MONDAY, 77 10 17

Lecture — EVOLVING URBAN FORM. THEORIES OF URBAN SPREAD AND IMPACT ON COUNTRYSIDE, Dr. R. Best, 13:10, Rm. 141, An. Sc. bldg.
Women's Hour — MANAGING MONEY, Prof. Kathleen Brown, Family Studies, 12:10, Rm. 442, UC.
Video Tape — ROBERT KLEIN, 11:00 to 15:00, Rm. 103, UC. Continues 77 10 19 and 77 10 21.
Games Room — SNOOKER LEAGUE COMMENCES, evening, UC.
Course — INTRODUCTION TO APL/PLUS, 13:30, Institute of Computer Science. Continues 77 10 20, 77 10 24, 77 10 27, 77 10 31. Call Ext. 3046 to register.

TUESDAY, 77 10 18

Senate — 20:00, Rm. 113, PS bldg.
Lecture — THE CANADIAN INSTITUTE OF BIOLOGY, Dr. D. Mettrick, chairman, Dept. of Zoology, University of Toronto, 15:00, Rm. 259, B/G/Z. Sponsored by the Dept. of Zoology.
Sports — FIELD HOCKEY, with Toronto, 19:30, Field Hockey pitch.
Readings in Gurdjieff — 20:45, Rm. 138, Arts bldg.
Discussion Group — CHRISTIAN FELLOWSHIP, 19:00, 9th fl., Arts bldg.
Games Room — EUCHRE TOURNAMENT, 19:00, PCH, UC.
Lectures — COMPARATIVE LAND USE. LAND-USE STRUCTURE AND CHANGE IN EUROPE AND USA, Dr. R. Best, 13:10, Rm. 141, An. Sc. bldg.; 25 YEARS OF DEVELOPMENT — THE GREEN REVOLUTION, Prof. Kusum Nair, visiting professor and economist, 20:00, Rm. 442, UC. Sponsored by the Dept. of Political Studies.
Worship — QUAKER MEETING, 19:30. For information and location call 824-1545.
"Our World" Series — Video on "EVER-SHORTER DAYS OF AFRICA," 12:00, Rm. 103, UC.
Colloquium — PARITY VIOLATION IN ATOMS, Dr. P. Sandars, Clarendon Laboratory, Oxford, England, 16:00, Rm. 113, PS bldg. Sponsored by the Dept. of Physics.
Worship — ANGLICAN EUCHARIST, 12:00, Chapel, level 5, UC; CATHOLIC MASS, 17:00, Chapel, level 5, UC.

WEDNESDAY, 77 10 19

American Film Theatre — LUTHER, 20:00, WMH.
Easy Wednesday — PAUL CAMPBELL, 12:00, courtyard, UC.
Seminar — Women in Crisis, BATTERED WIVES, 19:00, Rm. 103, UC.
Sports — RUGBY, with TORONTO, 14:00.
Lecture — URBAN GROWTH AND THE COUNTRYSIDE. AN ILLUSTRATED SUMMARY, Dr. R. Best, 13:10, Rm. 141, An. Sc. bldg.

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