

guelph

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All eyes on Guelph

Peace & Security conference attracts world media

Acting President Dr. Howard Clark's prediction to Board of Governors that the eyes, ears and hopes of the world would be turned towards the University of Guelph when Prime Minister Pierre Trudeau spoke at the opening of the "Strategies for Peace and Security in a Nuclear Age" conference was more than justified by the event.

Despite the television address which U.S. President Ronald Reagan gave at the same time, the presence of close to 150 media representatives and a battery of television cameras ensured world coverage.

The international media corps included correspondents from Moscow's *Pravda*, Soviet radio, Moscow television, *Financial Times* of London, BBC, *The Wall Street Journal*, the *Washington Post*, the *Christian Science Monitor* and Channels 2 and 4 in Buffalo.

From Canada, the conference drew the major dailies — *Le Devoir*, *La Presse*, *Montreal Gazette*, *The Globe and Mail*, *Ottawa Citizen*, *Kingston Whig Standard* and the *Vancouver Sun*. It also attracted media from many local outlets and from Ontario's small towns, among them Madoc and Tweed. The three national television networks sent top reporters. CBC coverage included English- and French-language television and radio news, as well as such commentary programs as *Sunday Morning*. Staff came from *Maclean's* and *Saturday Night* magazines, and the conference was covered by Canadian Press, United Press, the *Catholic New Times*, *The United Church Observer* and *The Canadian Churchman*. A number of writers for Canada's ethnic press — Polish, Ukrainian and Finnish — were also present.



Television crews and cameramen cover the prime minister's keynote address.

This, as Dr. Clark noted, was "not just another conference." It was a world event from which action could be expected to follow. The work of Guelph's Liberal Education Committee and the eminence of Professors Henry Wiseman, Political Studies, and Gunnar Bohnert, History, affirmed the University's leadership in the academic search for peace and created an irresistible pressure for the University to convene just such a conference.

When the prime minister agreed to give the keynote address, and it became clear that he would use the occasion to announce a major, new peace initiative, interest in the conference increased dramatically. Last-minute registrations pushed total attendance close to the 1,000 mark, with nearly 700 official delegates and a large number of important guests, observers and high-level speakers and workshop leaders.

The occasion also attracted protest groups. One group, augmented by a number of off-campus activists, staged a noisy but orderly demonstration against the conference itself. A smaller group took the opportunity to protest the testing of the Cruise missile.

By mid-afternoon on the opening day of the conference, October 27, the University

Centre was packed with students, registrants, media, activists and policemen. Security demands, however, were not unprecedented, according to Security Chief Ron McCormick. "Mr. Trudeau has been here before" he said, "and so has the Governor-General. Rarely a week goes by without a visit by a VIP to Guelph. This was perhaps a little more demanding because of the emotions stirred by the issues, and we are always concerned about the possibility of unpredictable action."

The RCMP contingent responsible for Mr. Trudeau's personal security, the OPP who escorted the prime minister from Toronto International Airport, members of the Guelph City Police and the University Police, under Chief John Grant, were all involved in a combined operation for which Mr. McCormick had the ultimate responsibility. Mr. Trudeau's itinerary and route on campus were planned in minute detail with all appropriate areas held under tight security at the proper times. Some 25 uniformed officers were involved, as well as an undetermined number of plain-clothed officers.

The peace and security conference was also a landmark occasion in the ongoing life

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Sculpture Park in memory of Donald Forster

A new sculpture park named after the late president, Donald F. Forster, has been established at the Macdonald Stewart Art Centre.

The plans for the 2Y2-acre site were outlined to Board of Governors last Thursday by Charles Ferguson, Vice-President, Administration, who is also chairman of the board of the Art Centre.

The sculpture park at the corner of College and Gordon Streets will be developed during the next 10 years. A \$23,027 grant from Canada/Ontario Employment Development Program is funding the first phase of development, which will include the installation of the sculpture "Passages" by Canadian artist Kosso Eloul, purchased by the University of Guelph Alma Mater Fund and Wintario.

The Donald F. Forster Sculpture Park will be the first major outdoor sculpture garden in Canada and pays tribute to the late president's interest in Canadian art and overall concern for developing new cultural and recreational facilities in Guelph. It was with

the initial encouragement of Professor Forster that the Art Centre was established by its four sponsors — the University of Guelph, the City of Guelph, the County of Wellington and the Wellington County Board of Education.

Under the chairmanship of John Rennie, the Centre will undertake a national fundraising campaign aimed primarily at the corporate sector. The proposed development of the sculpture park includes the gradual acquisition of major sculptures, provision of space for temporary exhibitions of large-scale pieces and an outdoor activity space for children's art classes. The park would be enhanced further by adding features such as a water element, paved areas, lighting and plantings appropriate to the design of the park.

The Macdonald Stewart Art Centre was officially opened in 1980 and is the eighth largest public gallery in Ontario. □

Conference

Continued from page 1.

of the University. This was expressed by Dr. Clark in his official welcome when he quoted Derek Bok, President of Harvard University, who said, "A university that refuses to take ethical dilemmas seriously, and fails to engage its members in debate on these issues, seriously violates its basic obligations to society."

"Such debate," Dr. Clark said, "is especially important to the educational task of developing not only intellectual but moral maturity in our students, of developing the ability to reason well in reaching often difficult moral conclusions. Our commitment to the conference, therefore, is a reaffirmation of our recognized responsibilities to our students and to Canadian society."

The conference also provided an opportunity for some 25 to 30 students to meet world leaders at close range. They were volunteer hosts, recommended by faculty members from many different Departments. They were trained in advance and made themselves available to assist conference VIPs whenever they needed help.

By Sunday morning it was apparent that the conference had succeeded beyond all expectations. "These have been three days of intense interaction between people from many countries, ordinary citizens and decision-makers, intellectuals and activists, representatives of governments, churches and political parties, and exponents of the whole spectrum of peacekeeping theory. Disagreements have been extreme but what has been demonstrated is that dialogue is possible if a suitable forum is provided for it," noted Prof. Wiseman. "The whole City has become a focus of world attention this weekend. As

Mayor Norman Jary told us, \$20 million would not have bought the publicity Guelph has received as a result of this conference."

Prof. Wiseman hopes the conference marks the emergence of a whole new concept in international dialogue on peace and security. There will certainly be spin-offs — similar conferences in other places, he said. "The University of Guelph has, by this conference, assumed a leadership role in an historical process rich with positive potential."

Responsibility for the logistics of the conference fell to Continuing Education whose responsibility it was to oversee registration, the production of delegate packages, advance publicity and arrangements for the press.

Thanks also goes to the student government, particularly to the staff of the student newspaper, *The Ontarion*, who gave their office space for the biggest-ever press gathering in the history of the University and a briefing by the Prime Minister's Office. □

NEW MICROCOMPUTERS FROM IBM will be displayed on Wednesday, November 16 and Thursday, November 17 in Room 441, University Centre. On display will be an IBM Instruments Computer for scientific data collection, the 3270 PC, an intelligent work station, and the Displaywriter, a micro-computer designed for business. The vendors will give brief 20-minute descriptions about these machines at 9 a.m., 10:30 a.m., 1:10 p.m. and 3:10 p.m. For more information contact Alison Stewart, ICS, Ext. 2706.

FAIR NOVEMBER — A sale of Canadian crafts by 80 skilled artisans from across Ontario is Friday, November 18 from 10 a.m. to 10 p.m., Saturday, November 19, 10 a.m. to 9 p.m. and Sunday, November 20, 11 a.m. to 6 p.m. in the University Centre. Admission is free.

Engineering accredited

The School of Engineering has received top marks from the Canadian Accreditation Board of the Canadian Council of Professional Engineers for its undergraduate programs in agricultural, biological and water resources engineering.

Professor Jan Jofriet, Acting Director of the School, explains that the CAB, which is responsible for accrediting all Canadian engineering schools, praised Guelph's engineering programs as being "of high quality and in the hands of competent and enthusiastic faculty members."

The board reviews everything from curriculum to classroom facilities every five years. Guelph's programs have been accredited since 1973.

"It's a tough hurdle to pass," notes Prof. Jofriet, "particularly these days, with limited resources."

The board noted a weakness in the area of mathematics and computers, particularly numerical methods. Currently, the engineering curriculum does not include a numerical methods course, but plans are under way for a course beginning in the winter of 1985, says Prof. Jofriet. □

VISITING PROFESSOR

John Ziman

Professor John Ziman, Imperial College of Science and Technology, University of London, will be visiting the Departments of Psychology and Physics during the week of November 7.

He will deliver a public lecture on "Specialization and Change in Scientific Careers" Wednesday, November 9 at 7:30 p.m. in Room 113, Physical Science building.

Prof. Ziman is a graduate of Victoria University College, Wellington, New Zealand and Balliol College, Oxford. He has taught at the Universities of Oxford, Cambridge and Bristol and has done research on the electrical and magnetic properties of solid and liquid metals. In recent years, his interests have turned to the various aspects of the social relations of science. He is currently involved in research on specialization and change in scientific careers, as well as theoretical studies of the modern research and development system.

Prof. Ziman's visit is sponsored by the Short Term Visiting Professors program. He may be reached at Ext. 2161, Room 554, MacKinnon building. □



The "Third Rail" Crusade

PM's speech outlines agenda for peace initiatives



Prime Minister Trudeau outlines personal plans for peace. Prof. Wiseman, centre, and Prof. Boehnert.

"It is not our nerves which are being tested now, and these are not playing fields on which we stand and cheer. It is the killing ground of life itself — and what is being tested is whether the force and will of our statecraft can reverse the momentum of the nuclear arms race."

Prime Minister Pierre Elliot Trudeau
Guelph, October 27, 1983.

At a time when all news seems bad, Prime Minister Pierre Trudeau opened up a vision of a world where nations can live in peace: "I believe that military strategy must, above all, serve a comprehensive set of political objectives whose purpose must be to create a stable environment of increased security for both East and West."

Mr. Trudeau defended Canada's right and duty to speak out about the full range of Western problems. "We are not silent partners," he said, "because silence would mean abdication of responsibility in the face of crisis. Institutions cannot grow to meet new

challenges if their level of debate, their intellectual universe of discourse — does not expand to meet the changing realities."

Mr. Trudeau described the state of East-West relations as "dangerously confrontational" and spoke of the widening gap between military strength and political purpose.

The re-affirmation of political purpose in the affairs of the nations provided the main thrust of the prime minister's speech.

"We must aim," he said, "at suppressing those nearly instinctive fears, frustrations and ambitions which have so often been the reason for resorting to the use of force. It is, therefore, essential to Western purposes, in my judgement, to maintain in our policies elements of communication, negotiation, and transparency about our intentions — plus a measure of incentive for the Soviet Union first to clarify and then to modify, its own objectives towards the West."

The prime minister said the time has come to go beyond the two-track approach

(deployment and negotiation) and introduce a "third rail" of high level political energy to speed the course of agreement.

The prime minister outlined his plans to meet with the heads of state of France, Belgium, The Netherlands, Italy and West Germany November 8 to November 11 to take to them in person his own recommendations for "a strategy of political confidence-building."

"We will be looking," he said "at several elements:

- ways of designing a consistent structure of political and economic confidence with which to stabilize East-West relations;
- ways to draw the superpowers away from their concentrations on military strength, towards regular and productive dialogue, towards a sense of responsibility commensurate with their power;
- ways to persuade all five nuclear weapons states to engage in negotiations aimed at establishing global limits on their strategic nuclear arsenals;
- ways of improving European security through the raising of the nuclear threshold, including the imposition of a political dynamic upon the static MBFR talks in Vienna, and
- ways to arrest the proliferation of nuclear weapons among other states."

Mr. Trudeau concluded with an appeal not to allow shrill rhetoric to become a substitute for foreign policy. □

Protesters picket in UC courtyard.



James Rusk, Globe and Mail, surrounded by media representatives in University of Guelph newsroom set up in The Ontario office.



Review Committee

Professor G.A. Moore completes his term as Director of the Office of Educational Practice March 31, 1984 and is eligible for reappointment.

A review committee has been established and comments are welcome by November 25 to Dr. J.M. Wardlaw, Acting Vice-President, Academic who is Chairman of the committee or to Dean D.R. Murray, Dean D.C. Maplesden, Professor J.B. Boehnert, Professor T.J. Gillespie, Professor E.L. McFarland and B. Katz, who are members of the committee. □

OAC honors top graduate students



Sill Parks, President, Pioneer Hi-Bred Company Ltd. congratulates Jane Sadler-Richards of Brussels, Ont., first award winner of the new Pioneer Research Fellowship.

The OAC graduate scholarships were presented this year at the Arboretum. This was the first time that a separate ceremony was held for graduate students, and the event was marked by a special recognition of Crop Science professor, Kenneth Kasha, the 1983 recipient of the E.C. Manning Award for research into haploid barley breeding (see *News Bulletin* 83 10 06). Replying to Dean Freeman McEwen's congratulations, Prof. Kasha confirmed that the award would be used for further research "in view of the critical role played by technicians and graduate students in the discovery." He gave thanks to graduate students and colleagues who helped with the research.

The 26 graduate awards totalling more than \$280,000 included the Soden Fellowships of \$5,000 each to 12 outstanding students and the 12 Mary Edmunds Williams Fellowships of \$4,000 each.

Assistant to the Dean, Professor Mike Jenkinson, notes that two important graduate awards were presented for the first time this

year. Pioneer Hi-Bred Limited of Chatham, is providing two annual fellowships of \$12,000 each to Crop Science graduates working on research related to soil conservation and management of land used for corn production, or the physical or chemical qualities of grain corn. The Pioneer Fellowship is unusual both for its high amount and that \$2,000 of each award is allocated to the Department to assist with the operating costs of the research.

The second new award is the Grape and Wine Graduate Research Assistantship — \$10,500 annually to support a graduate student who will provide leadership in research, teaching and extension in the area of viticulture and ecology. Funding is being provided by the Ontario Grape Growers' Marketing Board, the Wine Council of Ontario and the Horticultural Research Institute of Ontario. Research for the thesis studies will be carried out at Vineland and the course work at this University. □

A LECTURE ON INDONESIA will be given Wednesday, November 9 by Professor Harry Cummings, University School of Rural Planning and Development. Prof. Cummings has been doing applied research on various aspects of Indonesia's development since 1972 and will be doing future work on CIDA's water resources sector. He will speak on "Water Resources Sector Loan — The Evaluation Plan," at 3 p.m., in Room 334, University Centre.

Two Canadian novelists will visit the campus for readings and discussions in November.

Hugh Hood will read from his work Friday, November 4, 2 p.m. in Room 231 of the MacKinnon building. Timothy Findley, novelist and playwright, will read and discuss his work on Monday, November 14, 1 p.m. in Room 119, the MacKinnon building.

Details: Professor Eugene Benson, acting Chairman, English Language and Literature, Ext. 3234. □

Employers sought for co-op program

Some 300 students attending Guelph Collegiate Vocational Institute, Centennial C.V.I., John F. Ross C.V.I., Erin District High School, Mount Forest District High School, Bishop Macdonnell High School and the Centre Wellington District High School are involved in co-operative education courses this school year.

Co-operative education opportunities are available in the areas of business and technical education, art, geography, child care, science, community services, French, physical education and English.

This year, for the first time, G.C.V.I. is co-ordinating an English co-operative education program, and Jamie McIntosh, supervisor, is seeking University people who may be interested in employing a high school English student for a 13-week program to begin in February. Details: Mr. McIntosh, 824-9800. □

APPOINTMENTS

Ellen Goddard

Ellen Goddard has been appointed assistant professor in the School of Agricultural Economics and Extension Education.

She has a B.Sc. and an M.Sc. from the University of Guelph in Agricultural Economics and is a candidate for a Ph.D. in Agricultural Economics at LaTrobe University, Australia.

Her major areas of interest and research are modelling and methodology of international trade flows.

At Guelph her teaching and research responsibilities will include agricultural marketing and agricultural policy.

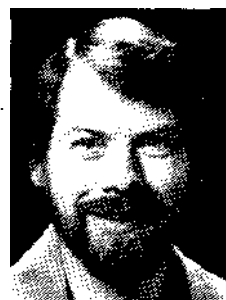


Martin Holmberg

Martin Holmberg has joined Computer Systems and Planning as systems programmer.

A graduate of the University of Waterloo's School of Electrical Engineering, Mr. Holmberg began a Master's degree in computerized voice synthesis and recognition in 1970. In 1971, he left the Master's program to work for eight years as a systems analyst/programmer for the Engineering Computer Centre and then he worked for two years as a research assistant for the Control Theory Group, both at Waterloo. In 1980 he joined Dominion Life Insurance and rose to the rank of senior systems programmer. For eight years, Mr. Holmberg owned and operated a mixed 200 acre farm which included dairy cattle and hogs.

As a member of the Computing Systems Department, Mr. Holmberg will be working with the VM/SP Support Team, working on the Amdahl computer's operating systems and utility packages.



William Wheatley

The final oral examination of William George Wheatley, Crop Science (Genetics), a candidate for the Doctor of Philosophy degree, is Thursday, November 3 at 2:30 p.m., Room 427, University Centre.

Mr. Wheatley's thesis is entitled "Chromosome Elimination in Root Meristems of a Diploid Interspecific Hybrid of *Hordeum*." His supervisor is Dr. K.J. Kasha.

Interested members of the University Community are invited to attend. □

GAFS - focus for fish studies

A new inter-disciplinary fisheries group has been established at the University.

Drawing upon researchers, faculty members and graduate students in the CBS, the OAC and the OVC, the new Group for the Advancement of Fish Studies (GAFS) will provide a forum for people interested in fin fish to exchange ideas and a focus for fish studies at the University.

Professor John Leatherland, Zoology, GAFS co-ordinator, says the group will build on a strong base of fish research at Guelph, established particularly by the fisheries/wildlife program.

"The group will capitalize on the opportunity at Guelph for faculty members and graduate students to interact and share their expertise," he says.

The group, recognized by the University in June, plans to hold regular seminars for graduate students, beginning next semester, with invited speakers from outside and within the University community. At Guelph, about 12 faculty members and 36 graduate students from the Departments of Zoology, Microbiology, Nutrition, Pathology and Animal and Poultry Science will form the core group.

"In an effort to work together to do more research and better research, we want to keep the administration and paperwork to a minimum," says Prof. Leatherland. "We hope to attract interest from grant agencies and contract work from industry and government."

An added bonus, he says, is that the group will be able to provide programs for industry people interested in such areas as hatchery management, aquaculture, pollution problems, fish nutrition, fish disease and fish population biology. □

B of G approves judicial process

Meeting of October 27, 1983.

A two-year review of the terms of reference and regulations for the student non-academic judicial process at Guelph concluded last Thursday when Board of Governors gave approval to revisions to membership, open hearings, grounds for appeal, the hearing of an appeal and conduct of proceedings. The process is now in accord with the Provinces' Statutory Powers Procedure Act.

The hearing board has been reduced in size, but retains the same student/faculty member balance. The composition of the judicial committee is essentially unchanged. In conformance with the Statutory Powers Procedure Act, all hearings of the judicial committee and the hearing board will be open unless the judicial committee decides otherwise. The grounds of appeal to the hearing board have been broadened to include appeals on the grounds of new evidence and appeals for reason of compassion. In all cases where an appellant submits a notice of appeal, the appeal will be heard.

Proceedings will be conducted in a more structured fashion to satisfy requirements of the Statutory Powers Procedure Act. Provost Paul Gilmor told the Board, however, that these will still be informal, providing the informality is consistent with a just hearing to all parties.

Acting President, Dr. Howard Clark, noted that Guelph has a good record for handling judicial proceedings very carefully. The revisions will continue to protect Guelph's academic programs and those people in them, he said.

UC Undertakes Review

The Board also approved the University Centre's annual report for 1983-1984. Director Ron Collins said the UC is making a new five-year plan and is seeking dialogue with the University to define its mandate. The Board of Governor's financial committee wants the UC's budget to reflect a break-even situation after capital expenditures. Board member, Bill Hamilton, suggested that the UC may be top-heavy in administration. He noted that the Centre, which grossed \$1.2 million, spent \$383,000 in 1982-1983 on administration costs. Mr. Collins said that the management structure is being examined.

Status Report

Dr. Clark noted that the University has not, as yet, had access to provincial and federal funding for the planning of capital improvements at OVC. Meetings with MCU, OMAF and the University are planned in the next two weeks to discuss these matters.

Discussions are also continuing between OMAF and the University on funding for the Equine Research Centre. The question of operating funds is still of concern and the Centre is looking to support from industry for this money, as well as from government.

The Universities of Guelph, Lakehead and Toronto will be meeting with the Ministry of Natural Resources this month to discuss MNR's plans to bring research in the areas of forestry, wildlife and fisheries into the university environment.

Dr. Clark said Guelph is still waiting to hear from the provincial government regarding global funding and changes to the formula for distributing operating grants among universities. These are expected by the end of this month.

He also noted that a sod-turning ceremony had been held for Phase 1 of the new OMAF milk testing laboratory located on Stone Road.

Studies are continuing, he added, to examine athletic facilities on campus, and Guelph's football team is third in the country.

Vice-President, Administration, Charles Ferguson, announced a sculpture garden to be established in memory of the late Donald Forster (see story, page 2).

MOTIONS

- The Board approved the budget plan as the basis for development of the University's operating budget for 1984-1985.
- The Board approved that the summary of the Non-Academic Judicial Process and the terms of reference, procedure and forms for the Judicial Committee and the Hearing Board be approved and adopted, and that the Judicial Committee and the Hearing Board be empowered to carry out their respective duties and functions and exercise their respective powers as set out in the drafts.
- The Board delegated to the President the power and authority to appoint members to the Committee on Student Rights and Responsibilities and the authority to confirm the membership of the University Judicial Committee and the University Hearing Board as proposed by the Committee on Student Rights and Responsibilities.
- The Board approved the University Centre's annual report for 1982-1983. □

Appointments

CSS — Chairman of the Department of Political Studies, O.P. Dwivedi, will be acting Dean of the College of Social Science March 1, 1983 to August 31, 1984 while Dean John Vanderkamp is on academic administrative leave.

OAC — Professor John Laing is acting chairman in the Department of Environmental Biology to August 31, 1984, following the untimely death of Professor John Robinson. □



Graduate student Nick Allen, Land Resource Science, was chosen as a co-winner of the C.F. Bentley Award for the best presentation by a student at the Canadian Society of Soil Science annual meeting in Truro, N.S. Mr. Allen, right, received an award of \$250 and a certificate from Professor M.H. Miller, LRS, the President of the CSSS.

Canadians advise Jamaican group

Tires designed for small cars travelling on North American highways just don't make the grade when it comes to pulling heavy loads on the back roads of Jamaica.

Inappropriate use of materials is a major problem for consumers in developing countries, says Professor Richard Vosburgh, Consumer Studies, who is currently working on a project to strengthen Jamaica's Consumers' League.

The \$136,712 Canadian International Development Agency (CI DA) project is in the first stage of its two-year contract. The Consumers' Association of Canada is working in co-operation with its Jamaican counterpart, the National Consumers' League, to help strengthen the West Indian volunteer organization. A Jamaican executive secretary has been appointed for the NCL and a four-person co-ordinating committee made up of three members of the league and Prof. Vosburgh is in place.

The group plans to enable Jamaicans to convey legitimate complaints to the right people in industry, government or consumer offices. Subsequent areas for attention include consumer education and representation on decision-making bodies. Prof. Vosburgh explains that a complaint network is fairly well established in Canada through the Consumers' Association, retailers, government agencies, newspaper hotlines and business people who are usually willing to deal with legitimate complaints about their products.

In Jamaica, however, as in most developing countries, such a network is not well established. Prof. Vosburgh has found that the Jamaican government is anxious to become involved and business councils and private foundations are expressing an interest in helping fund consumer education programs.

"Consumer education contributes to economic development by focusing more attention on product standards and on the reduction of waste from inappropriate consumer decisions," says Prof. Vosburgh. "Consumer policy contributes to economic and social development and is a way of stabilizing domestic markets."

Prof. Vosburgh feels this is probably a good time for the Jamaican Consumers' League to expand. The country has emerged from a period of social and political unrest and there is a growing feeling of confidence, he says. At the same time, the Jamaican group is in transition from a period of strong individual leadership by the founding president to a period of more shared leadership.

"It is also a good time for us, as Canadians, to be learning about the special problems of consumer policy-making in this setting," says Prof. Vosburgh. "It makes us think more carefully about our policies and goals in Canada."

The executive secretary and president of the Jamaican Consumers' League visited Canada this summer to see how the Canadian Consumers' Association is organized and to discuss solutions to consumer problems. □

Harvester for cattails

A cattail harvester, designed in the School of Engineering, is contributing to the success of an experimental sewage treatment facility in Listowel.

The tractor, pulling the side-mounted harvester, travels along berms in a man-made marsh designed to treat wastewater. The harvester cuts the cattails and leaves them windrowed on the berms.

The cattails were planted in the artificial marsh to remove nitrogen, phosphorous and other contaminants from the wastewater. This significantly reduces the biological oxygen demand of the effluent. Harvesting the cattails encourages growth and may help remove contaminants from the water. Studies are in progress on the effects of harvesting and how often it should be done. Removing cattails from the marsh prolongs the life of the marsh as a wastewater treatment facility.

The artificial wetlands at Listowel were constructed as a study facility by the water treatment section, pollution control planning branch of the Ontario Ministry of the Environment. Natural wetlands have been recognized as an effective tertiary treatment for wastewater. The engineered wetlands offer greater scope as they can be built anywhere and are designed for optimum management and efficient operation.

School of Engineering professor J.H.A. Lee says that designing the cattail harvester presented several challenges. The cattails grow randomly while field crops are planted in regular rows. The tractor travels along the berms while the harvester it supports cuts cattails growing in the soft marshlands adjacent to the berms. There were also weight and cost restrictions on the harvester design.

Design and construction of the harvester were commissioned by the Ontario Ministry of the Environment specifically for use in its artificial wetland water treatment facilities. □

BRIEFLY

THE NOON-HOUR CONCERT, Thursday, November 3, features Coenraad Bloemendal, cello, and Joel Quarrington, double bass, from 12:10 p.m. to 12:45 p.m. and 1:10 p.m. to 1:45 p.m. in Music Room 107, MacKinnon building.

Program I at 12:10 p.m. will consist of a duet for cello and bass by Jacques Offenbach; "Rondo Solo" for bass with cello by Franz Joseph Keyser; Boccherini's "Sonata in B Flat Major" for cello and bass and "Theme and Variations" for cello and bass by Charles Nicolas Baudiot.

Program II at 1:10 p.m. will include Bach's "Suite No. 3 in C Major" for solo cello and "Duetto" for cello and bass by Rossini.

THE UNIVERSITY of Guelph's film "The Harp Seal," "The Hooded Seal," and "Transition" were shown at Memorial University, St. John's, Newfoundland, during National Universities Week.

UNICEF CHRISTMAS CARDS will be on sale in November in the MacKinnon building by the Porter's Desk, Mondays, 11 a.m. to 5 p.m., Tuesdays to Fridays, 11 a.m. to 3 p.m.

THE FACULTY CLUB presents "Artistic Expressions," an exhibition and sale of work by Maureen Gaskin and Marlene Jofriet, Sunday, November 6 from 2 p.m. to 4:30 p.m.

The show continues until December 17, level 5, University Centre.

DENNIS TIMBRELL, Ontario Minister of Agriculture and Food, will address the November branch meeting of the Ontario Institute of Agrologists Monday, November 7 at 7:30 p.m. in Peter Clark Hall, University Centre. His topic will be "The Role of the Ontario Government in the Food System."

CITIZENSHIP ORIENTATION classes will be held at the Guelph and District Multicultural Centre, 128 Woolwich Street, suite 203, on Wednesdays, November 16, 23, 30 and December 7 from 7:30 p.m. to 9:30 p.m.

For further information, please call 836-2222.

Visiting Professor

Carola Grindea

Carola Grindea, piano professor at the Guildhall School of Music and Drama, London, England, will visit the Guelph campus November 7 and 8. Professor Grindea, the author of *The First Ten Lessons* and *We Make Our Own Music*, will present a workshop entitled, "Tension in Piano Playing," Monday, November 7 from 5:40 p.m. to 6:30 p.m. in Music Room 107, MacKinnon building. The public is cordially invited to attend this free event. □

Retired personnel

Enjoying retirement are the following University of Guelph people who have retired since July:

Ida N. Pulford, Residences, 10 yrs. 11 mos.; Olive J. Black, Laundry, 25 yrs. 7 mos.; Patrick D. Lafferty, Physical Science, 13 yrs. 11 mos.; Maurice V. Smith, Environmental Biology, 37 yrs. 6 mos.; Hugh D. Ayers, School of Engineering, 30 yrs. 11 mos.; Rex A. Barrell, Languages, 18 yrs. 2 mos.; Sophie Death, Housekeeping, 9 yrs. 1 mos.; James D. Schroder, Pathology, 41 yrs. 3 mos.; Elmer Millson, Police Division, 13 yrs. 2 mos.; Bernard J. McSherry, Pathology, 35 yrs.; Francis A. Keleher, Arts building, 10 yrs. 9 mos.; Eleanor Seifried, Environmental Biology, 25 yrs. 5 mos.; Beverley E. Stickland, Animal Care Service, 14 yrs. 11 mos., and Donald A. Barnum, Veterinary Microbiology, 42 yrs. 4 mos. □

FACULTY AND STAFF ACTIVITIES

Best Paper

Professor Thomas D. Nudds, Zoology, has received the Ernest P. Edwards prize for the best paper published in *The Wilson Bulletin* in 1982. It is entitled "Ecological Separation of Grebes and Coots: Interference Competition or Microhabitat Selection?"

Elected Fellow

Professor Jack Pos, School of Engineering, was honored at the recent Agricultural Institute of Canada convention held in Truro, N.S., where he was elected a Fellow in the Canadian Society of Agricultural Engineering.

Travels and Seminars

Professor Hans Bakker, Sociology and Anthropology, gave an invited seminar presentation as part of the staff development series sponsored by the Indonesia Desk, CIDA, Ottawa. His topic was: "Historical and Cultural Issues in Indonesia's Rural Development Efforts: Patrimonialism and Diversity."

Professor P.K. Basrur, Biomedical Sciences, served as a co-ordinator for the Second International Symposium on Advanced Topics in Animal Reproduction: Theme Embryos held at the Veterinary College, Jaboticabal Campus, University of Sao Paulo, Brazil. Prof. Basrur also participated in the symposium and was, in addition, co-editor of the proceedings of the Symposium. Prof. Basrur's paper at the symposium, co-authored with Dr. L.E.L. Pinheiro, was "Genes, Gametes and Embryos."

Professor Kenneth Graham, English, was elected first vice-president of the Canadian Society of 18th-Century Studies at the annual meeting of the Society held in St. John, New Brunswick.

Professor W. Larry Grovum, Biomedical Sciences, presented a paper entitled "Factors Affecting the Rate of Passage of Digesta through the Alimentary tract" at the 29th Congress of the International Union of Physiological Sciences held in Sydney, Australia and "Investigations into How Pentagastrin Depresses Food Intake by Sheep" at the Eighth International Symposium on the Control of Food and Fluid Intake held in Melbourne, Australia.

Professor Peter Hardwick, Music, attended the joint meeting of the Music Library Association, New York, Ontario chapter, and the American Musicological Society, New York State, St. Lawrence chapter, held at the University of Toronto. He presented a paper, "Peter Maxwell Davies and the Plainsong Influence."

Professor J.W. Hilton, Nutrition, was invited by the Royal Danish Agriculture Society and the Scandinavian Association of Agricultural Scientists to give a lecture in Copenhagen, Denmark, at the workshop on Ascorbic Acid in Domestic Animals sponsored by Hoffmann-LaRoche Ltd., Basel, Switzerland. His presentation was "Ascorbic Acid-Mineral Interactions in Fish." While in Scandinavia, Prof. Hilton was also invited by the department of biochemistry, department of applied zoology, Kuopio University, Finland to give a lecture on "Carbohydrate Digestion, Metabolism and Utilization in Rainbow Trout." Dr. Hilton also met with representatives of fish feed manufacturers in Denmark and Finland to discuss the processing techniques used in the manufacture of fish food.

Professor Bruce Holub, Nutrition, was a guest seminar speaker in the "Nutrition 1980s" series at the Hamilton General Hospital. The lecture was "Nutrition, Platelet Function, Thrombosis and Heart Disease."

Prof. Holub also spoke to the expert committee on food safety in Ottawa on "Foods, Dietary Fat, and Cardiovascular Disease."

Professor Thomas D. Nudds, Zoology and graduate students Pat Kehoe and John Ball, attended the 16th Delta Seminar on the Breeding Biology of Waterfowl at the Delta Waterfowl Research Station, Manitoba, where Prof. Nudds presented a paper, co-authored by graduate student Jim Bowlby, "Predator-prey Size Relationships in North American Dabbling Ducks."

Professor Helier Robinson, Philosophy, attended the 15th World Congress of Philosophy in Montreal where he read a paper, "Theoretical Science Describes the Noumenal World."

Professor A.E. Wilcock, Consumer Studies, has been selected as one of 50 professors from across Canada and the United States to attend the American Society for Testing and Materials (ASTM) Faculty Intern Program for 1984 in January at Philadelphia, Pa. The topic will be "standardization."

PUBLICATIONS

Campbell, J.L., J.A. Cookson and H. Paul, 1983. "Uncertainties in Thick-target PIXE Analysis," Nucl. Instr. Meth. 212: 427-439 (Campbell, Physics; Cookson, U.K. Atomic Energy Authority, Harwell; Paul, University of Linz, Austria).

Harling, Kenneth F. and Robert L. Thompson, 1983. "The Economic Effects of Intervention in Canadian Agriculture," Cdn. J. of Agric. Economics, 31(3): 153-176 (School of Agricultural Economics and Extension Education).

Heale, E.L. and D.P. Ormrod, 1983. "Effects of Nickel and Copper on Seed Germination and Growth and Development of Seedlings of *Acer ginnala*, *Betula papyrifera*, *Picea abies* and *Pinus banksiana*," Reclamation and Revegetation Res. 2: 41-54 (Horticultural Science).

Merrill, Jill C. and Tammy M. Bray, 1983. "The Effect of Dietary and Sulfur Compounds in Alleviating 3-Methylindole-Induced Pulmonary Toxicity in Goats," J. Nutrition 113(9): 1725-1731 (Merrill, A&M University, Texas; Bray, Nutrition).

Milne, Charles P., Jr. and Walter C. Rothenbuhler, 1983. "The Honeybee Blastoderm Fate Map," Journal of Apicultural Research 22(2): 69-78 (Environmental Biology).

Milne, Charles P., Jr., 1983. "Laboratory Measurement of Honeybee Brood Disease Resistance 2: Uncapping of Freeze-killed and Line Brood by Newly Emerged Workers in Cages," Journal of Apicultural Research 22(2): 115-118 (Environmental Biology).

Morris, J.M. and G.A. Bubenik, 1983. "The Effects of Androgens on the Development of Antler Bone," in Antler Development in Cervidae, ed. R.D. Brown, Caesar Kleberg Wildl. Res. Inst., Kingsville, Tex. pp. 123-141 (Zoology).

PERSONALS

For Sale

Steel/white shower stall, Viking electric stove, 1967 Ford for parts, 821-7822; bedroom suite, dresser, mirror, chest and bedframe, Westinghouse 5-cycle dishwasher, 822-0324; 1972 Austin Mark II 1800, 821-0187 evenings; solid oak pedestal table, kitchen table, 2 chairs, shower doors, convection oven, antique lawnmower, child's western saddle, 836-5334 after 1700; 1983 Sylvania 20" colored TV, 821-2472 after 1800; 40-gallon octagon aquarium, 821-2087; 1976 Dodge Dart, 822-7244; 1978 Renault, 822-5008; 1979 Polaris Gemini with or without trailer, contact Irene, 3776; Muffat 30" stove, (519)638-3240 after 1800; boy's Lange hockey skates, size 1-2, 821-5874 after 1800; Kenmore dishwasher, 836-9429 after 1700; 1976 Toyota Corolla, 843-2367 after 1800; Snugli baby carrier, carry cot, Jolly Jumper, pram, infant's seat, 846-5541; Intellivision with 6 game cartridges, contact Monika, 8776; lawn mower, plants, rug, carpet, 821-1236; child's buckle ski boots, size 13/1, 821-5874 after 1800; 1975 Volvo, size 6 skates, ladies' 3-speed bike, burgundy sofa and armchair, 822-8426; 9-piece dining suite and 4-piece bedroom suite, 824-8298; 9-piece walnut dining room suite, 1974 Hornet wagon, typewriter, 821-3814 after 1700; Eilo model 460 single trace oscilloscope, 843-2338; oriental rug, 856-9657 evenings; four steamer trunks, 836-6291; teen girl's burgundy coat, size 9, young girl's fleece-lined brown coat, size 14, boys' Bauer hockey skates, size 6 1/2, child's cross-country ski boots, size 3, large Lego collection, 821-2273 evenings; baby's pink snowsuit, 12 months, contact Alice, 3632;

boys' Micron skates, age 7-8, contact D. Auld, 3897; BMW 528, 836-2868; Burmese kitten, 824-5509 after 1900; ski boots, Alpine Elan skis, Tyrolia bindings, sailboard, 824-0676; zero-clearance fireplace unit, contact Chris, 3672; tilt top counter top table, electric heater, electric coffee pot, books, winter coat, wig, 2 kitchen chairs, 822-5106; car vacuum, Brownie belt and pouch, horse collar, mail box, cannister and bread box set, wedding dress and hat, size 9-10, girl's hike, 822-3129; fry pan/teapot, cannister set, drapes, tea towels, 822-3417; 1976 Vega, 623-1694 after 1800.

JOB OPPORTUNITIES

Programmer-Analyst, Academic Computer Services. Salary range: \$21,538. - \$32,307. Temporary full-time, one-year term.

Scheduling and Registration Co-ordinator, Registrar's Office. Salary Range: \$19,910. - \$29,864.

Technician (grant position), Veterinary Microbiology and Immunology. Salary range: \$287.53 - \$412.50.

Agricultural Assistant, Animal and Poultry Science. Start rate: \$377.23; six-month rate, \$395.99; one-year job rate, \$414.77.

Technician (grant position), Botany and Genetics. Salary commensurate with experience and qualification.

Secretary to the Chairman, Clinical Studies. Salary range: \$248.95 - \$349.98. Open to on-campus employees only.

Next Week at Guelph

THURSDAY, 83 11 03

Noon Hour Concert - COENRAAD BLOEMENDAL & JOEL OUARRINGTON, cello and double bass, 1210 and 1310, MacK107.
Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.

Faculty Association - EXECUTIVE MEETING, 1200, Faculty Club Board Room, level 5, UC.

Apiculture Club - AGROFORESTRY AND APICULTURE, G.F. Townsend, 1710, Graham Hall, Rm. 200.

Meeting - ONTARIO WEED COMMITTEE ANNUAL MEETING, Ext. 2513 for details.

Inter-Varsity Christian Fellowship - HEARING AND DOING THE WORD OF GOD, R. Middleton, 1845, UC442.

Staff Development Opportunities - MANAGING UNDERPERFORMANCE, 0900, UC442, Ext. 3058 to register.

Visiting Professor - GRADUATE TRAINING IN PATHOLOGY AT WASHINGTON STATE UNIVERSITY, L. Peryman, Washington State, 1110, Pa th220.

Chemistry Seminars - GAS-PHASE ION CHEMISTRY WITH AND WITHOUT SOLVENT, D. Bohme, York University, 1500, CM319.

FRIDAY, 83 11 04

Friday Flicks - RAIDERS OF THE LOST ARK, 1930 and 2130, PS105.

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

Conference - CANADIAN GREENHOUSE CONFERENCE, details: Ext. 3847.

Seminar - BIOCHEMICAL AND PHYSIOLOGICAL PROPERTIES OF THE RECEPTOR FOR FOLLICLE STIMULATING HORMONE, G. Cheng, U. of Manitoba, 1300, ASN204.

Reading - HUGH HOOD, 1400, MacK231.

Sports - VOLLEYBALL, vs. Waterloo, 2000.

SATURDAY, 83 11 05

Continuing Education - FINANCING PART-TIME FARMS, G. Hutchinson, 0930; SNOW, WIND AND SUN CONTROL, F. Theakston, 0930, Ext. 3956 to register.

Arboretum - BIRD FEED AND FEEDERS, 1300, J.C. Taylor Nature Centre.

Concert - MARIA OF SESAME STREET, 1400 and 1600, WMH.

SUNDAY, 83 11 06

Hollywood Nites - STAR TREK I AND II, 1900 and 2145, WMH.

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

Guelph Cycling Club - ELORA, 1000, UC.

International Cinema - "1900," 2000, PS105.

Sunday Afternoon Walks - BIRD FEED AND FEEDERS, 1400, J.C. Taylor Nature Centre.

Guelph Youth Orchestra - REMEMBRANCE DAY CONCERT, 1500, Harcourt Memorial United Church.

Exhibit - ARTISTIC EXPRESSIONS, 1400, Faculty Club, level 5, UC.

MONDAY, 83 11 07

The University and Nuclear Arms - NUCLEAR DEVELOPMENT AND THE THIRD WORLD, M. Handa, OISE, 1210, UC442.

Staff Development Opportunities - COMPUTER CONCEPTS, M. Brochet, 1330, ICS212, Ext. 3058 to register.

Film - FAME and FLASHDANCE, 1900, UC103.

Lecture - ROLE OF THE ONTARIO GOVERNMENT IN THE FOOD SYSTEM, D. Timbrell, 1930, PCH.

Lecture - PROJECT P, discussion on pornography, 1930, UC442.

Continuing Education - STEP-PARENTING, A. Ruhl, 1900, MacK311, Ext. 3956 to register.

Lecture - MARKET STRUCTURE, MACROECONOMIC FORCES AND AGRICULTURAL TRADE: IMPLICATIONS FOR U.S. AGRICULTURAL POLICY, M. Bredahl, 1430, UC442.

Chemistry Seminars - MOLECULAR MECHANISMS OF ACTION OF SELECTED ANTITUMOUR ANTIBIOTICS WHICH INTERACT WITH DNA, W. Lown, U. of Alberta, 1500, CM319.

Workshop - TENSION IN PIANO PLAYING, Carola Grindea, 1740, MacK107.

TUESDAY, 83 11 08

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

Our World - THE VOICE OF THOSE WHO ARE NOT HERE, 1210, UC442.

Meeting - MICROCOMPUTER CLUB, 1900, ICS212.

Continuing Education - SWINE HEALTH RESEARCH REVIEW DAY, 0830, Ext. 3064 to register.

Physics Seminars - Dr. J.M. Ziman, U. of London, 1600, PS113.

Staff Development Opportunities - OFFICE PROCEDURES, P.A. Corcoran, 1900, APS141, Ext. 3058 to register.

Lecture - EXTERNAL INDEBTEDNESS OF NEWLY INDUSTRIALIZING NATIONS AND FOOD CONSUMPTION: THE CASE OF MEXICO, M. Bredahl, 1430, UC332.

Meeting - PROFESSIONAL STAFF ASSOCIATION, 1700, UC441.

WEDNESDAY, 83 11 09

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

Staff Development Opportunities - WRITING ADMINISTRATIVE REPORTS, S. Milne, 1315, UC441; MICROCOMPUTER CONCEPTS, M. Brochet, 1330, ICS212, Ext. 3058 to register.

Clinic - RED CROSS BLOOD DONOR CLINIC, 1400, St. George's Church, 99 Woolwich St.

Sports - VOLLEYBALL, vs. Laurier, 2000.

Lecture - EXCHANGE RATES AND THE COMMON AGRICULTURAL POLICY, M. Bredahl, 1430, UC332.

Lecture - AMNESTY INTERNATIONAL: MEDICAL INVOLVEMENT AND RESPONSIBILITY, Jose Venturelli, McMaster, 2030, Conestoga College, 70 Westmount Rd., Rm. A4.

THURSDAY, 83 11 10

Noon Hour Concert - JEAN BAXTRESSER & JOHN VAN BUSKIRK, flute and piano, 1210 and 1310, MacK107.

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

Apiculture Club - HONEYBEE COMB: EFFECTS OF CELL SIZE ON BEE GROWTH, G. Otis, 1710, Graham Hall, Rm. 200.

Graduate Seminars - MASTITIS AS A CAUSE OF DEATH IN DAIRY COWS: A RETROSPECTIVE ASSESSMENT, M. Hazlett, 1110, Path220.

Inter-Varsity Christian Fellowship - KNOWING SCRIPTURE: WAYS TO UNDERSTAND THE BIBLE, 1845, ASN141.

Guelph Field Naturalists - POTLUCK SUPPER, 1815; THE STORY OF MISERY BAY: MANITOULIN ISLAND, S. Hilts, 1945, Trinity United Church, 837-2684 for details.

Meeting - GUELPH WOMEN'S CENTRE, organizational meeting, 1930, Guelph Public Library.

Lecture - IMPACT OF EXCHANGE RATES, WORLD INFLATION AND INCOME ON U.S. AGRICULTURAL TRADE, M. Bredahl, 1430, UC332.



Available

Fast, accurate typing, 822-3461, 1300 to 1600; French or German tutoring, 836-2953; typing and word processing, 821-8234; renovations, restorations, consulting and construction, 821-2103.

Wanted

Former faculty member and family require temporary residence, 6-12 months, starting Dec. 1., 836-5450; riders for daily car pool to York U., 2662; daily ride from Toronto to Guelph to Toronto, 2443.

Lost and Found

Found: one pair glasses outside Laboratory Animal building, OVC, contact 2640.

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