

# guelph

## UNIVERSITY NEWS BULLETIN

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# The Scottish Heritage Festival

*An invitation to fling pieces oot a twenty-storey flat and all that . . .*

The first Scots to set foot in Canada were allegedly a couple bearing the distinctly un-Scottish names of Haki and Hekja. As part of Leif the Lucky's expedition to Newfoundland in the 10th century, their job was to run along the shore each day to demonstrate that no hostile natives were about and that it was safe for the Vikings to camp.

Over 600 years later, Sir William Alexander, Earl of Stirling and Viscount Canada, expressed his Utopian vision of Scottish settlement in Nova Scotia in 10,000 lines of what the chairman of the Scottish Heritage Festival, History professor Ted Cowan, describes as "interminable and excruciating poetry." Through time the Scots would join with the French in the great riparian trade which spawned a nation, and, as one observer has noted, find fortunes in furs and fleecing their fellow men at one and the same time. Since the 18th century there is scarcely a page of Canadian history that is not marked by the Scottish presence.

The Scottish experience in Canada will be celebrated in Guelph May 7 to May 15, thanks to the support of the Ontario Heritage Foundation/Ministry of Citizenship and Culture, the City of Guelph and the University of Guelph.

Prof. Cowan says Guelph was chosen for the first venture of this kind because of its Scottish antecedents — founded by John Galt — and because of the University's unique Scottish Studies program.

In recent years the Scottish Studies program has attracted a Queen Elizabeth scholarship, a Commonwealth scholarship, several University of Guelph scholarships, awards from the Ontario Graduate Scholarship program and also the Social Science and Humanities Research Council of Canada. Thanks to the energy of Professor Emeritus Stanford Reid and the industry of University librarians, the University of Guelph Library claims the finest collection of Scottish books and manuscripts outside Scotland. A steady stream of distinguished Scottish scholars visits the University. The Chairman of the Department of History, Professor Stefan Straka,

edits the annual *Scottish Tradition*, and, twice yearly, conferences attract a cross-section of the community.

The Scottish Heritage Festival has won the voluntary support of dozens of individuals drawn from faculty and staff members, graduate and undergraduate students. Guelph Mayor Norm Jary will declare May 7 to May 15 "Scottish Week" and the Scottish flag will fly at City Hall.

### Festival Update

A grand Scottish concert dance at the Royal Canadian Legion will launch the Festival April 29. The event includes a meal, music by Bobbie Brown and his Scottish Accent and Scottish singer Peter Glen.

The Festival will be attended by Cliff Hanley, a former Scottish-Canadian exchange writer at Glendon College and well-known novelist, journalist, raconteur and wit. He will give a number of presentations, including his impressions of the "Mac Migration."

Mr. Hanley will also introduce an evening of John Grierson films, including the Oscar-winning "Seaward the Great Ships" for which Mr. Hanley wrote the script. Also attending is Adam MacNaughton, one of the foremost singers and composers of the Scottish Folk Revival who will give several informal performances of traditional ballads and his own songs, including "Ye Carina Fling Pieces Oot a Twenty-Storey Flat."

Stratford actor Douglas Campbell will reminisce about his life in Scotland and Canada at an evening of readings May 19. There will also be a soccer tournament May 1; an evening of Scottish poetry readings May 8; a special church service, also May 8; a whiskey-tasting May 11; a Scottish banquet May 13, a ceilidh May 14 and a picnic at the Royal Canadian Legion May 15. Scottish films will be presented, including "Culloden," "Whiskey Galore," "The Kidnappers," Polanski's "MacBeth," "Kidnapped" and "The Thirty-

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EARLY CURLERS ON TORONTO BAY.

Board of Governors set undergraduate and graduate tuition fees for 1983-1984 at its meeting last Thursday. Canadian and permanent residence undergraduates face a five per cent increase this fall. New fees will range from \$535 per semester to \$600, depending on the program. Fees for undergraduate visa students who were enrolled in an undergraduate program after September 1, 1982, are increased by 40 per cent. All graduate fees are increased by five per cent. The increases go into effect May 1.

Outside the University Centre board room, 175 students protested with chants of "No way, we won't pay" and placards denouncing differential fees for international students. Inside, where there was a packed visitor's gallery, Charlie Dobbin, outgoing vice-president, external Central Student Association, presented a brief and petition to the Board. The brief described the practice of charging differential fees as "a discriminatory policy that stands in contravention of the Ontario Human Rights Code" and "against a fundamental element of the aims and objectives of the University." Ms. Dobbin also argued that visa students are being used as scapegoats for a seriously underfunded post-secondary education system.

As of May 1, full-time undergraduate visa students who were enrolled before September 1, 1982, will pay \$1,045 per semester. Full-time undergraduate visa students who were enrolled after that date will pay \$1,890 or \$3,080 per semester depending on the type of program. Fees for part-time students and for auditing courses are also increased (see "Motions".)

The Board was impressed with the CSA brief that recommended that differential fees be discontinued or decreased. It also called for a grandfather clause that would ensure that in-course visa students would not suffer unduly because of increases.

Describing the brief as the best ever seen from the CSA during his term of office, President Forster explained that tuition fee increases are government, not University, policy. University presidents have fought hard to win concessions from the Ministry, he added. "The government agreed to hold the graduate visa student fee increase to five per cent, but we were unsuccessful at the undergraduate level for visa students."

President Forster said university presidents are not happy with the action taken by the government. "We have no choice, given our financial situation, but to adhere to the government's guidelines, no matter how wrong we think these may be."

The President added that some universities charged the full fee increase, plus the 10 per cent discretionary fee. Guelph, however, chose not to add on the discretionary fee.

Board Chairman Cecil Franklin said he would be meeting with the Minister of Colleges and Universities, Dr. Bette Stephenson, on April 5, and he would like to discuss this matter with her. He suggested that the CSA submit a copy of its brief to the Minister.

In other business, the Board also approved new rates for food services and residence fees. The increases, which are slightly above the government's six and five per cent guidelines, created some discussion. President Forster noted that these areas are outside the restraint program.

The Board also learned of the names of the two students who will serve on the Board of Governors for one-year terms beginning July 1. Elected by student ballot were Bill Harcourt, a B.Sc.(Eng.) student, and Silvija Tiusis, a Master's student in botany/genetics.

#### Committee on Social Responsibility

Revised guidelines for the Committee on Social Responsibility that was established in 1979 to address the issue of disinvestment in South Africa will be presented to the Board shortly. The committee will be a joint Senate/Board committee. Among the issues it will examine are the role and responsibilities of the University and individual faculty members who accept assignments in countries whose governments are not endorsed by Canada.

#### Appointments

The following appointments were approved by the executive committee last month:

*Arts:* Professor George Todd, Philosophy, becomes Chairman of the Department of Fine Art September 1, replacing Professor Tom Tritschler who will continue in the Department as assistant professor and Professor Michael Kremer will be acting Chairman of the Department of Languages and Literatures from September 1 to August 31, 1984, while Professor John Bell is on administrative leave;

*OAC:* Professor Bruce Stone, Animal and Poultry Science, becomes Associate Dean, OAC, beginning July 1; Dr. E. Ann Clark, joins the Department of Crop Science in a replacement appointment as assistant professor September 1; Kirk Parkin joins the Department of Food Science as assistant professor in a replacement appointment June 1, and Ellen Goddard joins the School of Agricultural Economics and Extension Education as assistant professor in a replacement appointment August 1;

*OVC:* W.H. Johnson joins the Department of Clinical Studies as assistant professor in a replacement appointment June 1;

*Family and Consumer Studies:* Professor Richard Barham, Chairman, Family Studies, becomes Dean July 1. He will succeed Professor Janet Wardlaw.

*University Administration:* Dr. Jim Stevens will continue as Assistant, Vice-President, Academic to June 30, 1984.

Appointments announced this month include:

*College of Physical Science:* Professor Dilip Banerji will join the Department of Computing and Information Science Aug. 1 in a replacement position;

*College of Biological Science:* Trevor C. Hearn becomes assistant professor in the School of Human Biology May 1, filling a vacated position;

*College of Family and Consumer Studies:* Grant McCracken will join the Department of Consumer Studies as assistant professor September 1 to fill a vacated position;

*Office of Research:* Ronald Dolynchuk, will become Director of Industrial Services on April 1 for a three-year term, and,

*Gerontology Research Centre:* Professor Anne Martin Matthews will become part-time director of the Gerontology Research Centre May 1.

#### MOTIONS

##### Food Services, Residence Rates

- The Board approved Food Services rates, effective May 1, as follows: Plan "A," fall semester, \$500 and winter semester, \$520; Plan "B," fall semester, \$560 and winter semester, \$580.

Single student residences: East Residence, apartment style: spring, singles, \$680 per semester; fall and winter, singles, \$785 per semester, and doubles, \$725 per semester. North and South Residences: fall and winter, singles, \$735 per semester; doubles, \$675 per semester, apartments, \$300 per month. Student family accommodation: spring, fall and winter, furnished, \$336 per month, unfurnished, \$325 per month.

##### Student Activity Fee

- The Board approved an increase to the Graduate Students' Association fee for full-time students from \$6.50 to \$8 per semester, and for part-time students, from \$4.50 to \$5 per semester, effective May 1.

##### Student Laundry Fee

- The Board approved a student laundry fee increase, effective May 1, as follows: Semesters 1, 2, 3 and 4, \$15 per semester; semesters 5, 6, \$40 per semester, and semesters 7 and 8, \$55 per semester.

##### Undergraduate Tuition Fees

- The Board approved the following undergraduate tuition fees for 1983-1984:

Canadian and permanent residents, effective May 1, full-time per semester: Bachelor of Arts, General Students and Unclassified, \$535; Bachelor of Science, Bachelor of Science in Human Kinetics, Bachelor of Science in Agriculture, Bachelor of Applied Science, Bachelor of Commerce, and Doctor of Veterinary Medicine, \$550; Bachelor of Landscape Architecture, \$555, and Bachelor of Science in Engineering, \$600. Part-time, per course, \$110. Auditing of courses, per course, \$75.

Visa students who were full-time students before September, 1982: \$1,045 per semester; part-time, \$210 per semester.

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# Six receive cancer research grants

Six faculty members at the University have received research grants totalling \$143,530 from the National Cancer Institute for 1983-1984.

Three of the six recipients are newcomers to the University: Dr. Bruce Sells, the new Dean of the College of Biological Science; Professor Mark Goldberg, Biomedical Science, who has been here since September; and Professor David Josephy, Chemistry, who has been on the faculty since January. The amount of their awards are, respectively, \$22,373, \$30,921 and \$25,014.

Other faculty members receiving grants are: Professor Harold Draper, Nutrition, \$30,036; Professor John Holt, Mathematics and Statistics, \$9,190 and Professor Frances Sharom, Chemistry, \$26,096.

Dr. Sells, at Memorial University until July 1, is studying "Molecular Events during Transitions in Cell Rates."

Prof. Goldberg is developing an assay for the detection of agents that might cause bladder cancer, using genetics in points.

Prof. Josephy is conducting research into chemical carcinogenesis and, in particular, aromatic amines.

The title of Prof. Draper's research project is "The Toxicity and Metabolism of Malonaldehyde."

Prof. Holt's research involves survival analysis with genetic parameters, studying disease progression modelling using environmental and genetic variables.

Prof. Sharom is examining lymphocyte activation in mice and pigs, specifically looking at glycoproteins and glycolipids in the cell membrane and their relation to the immune system.

The grant recipients said the money will be used mainly for operating costs such as research assistants and lab costs.

Ken Greenaway, spokesman for the Wellington unit of the Canadian Cancer Society, said the money raised during the Society's campaign in April supports these ongoing research projects, as well as patient services and education for the prevention and cure of cancer.

Mr. Greenaway pointed out that the Terry Fox Fund is a separate fund specifically for new research projects. □

**THE UNIVERSITY OF GUELPH** Chamber Singers, under the direction of Charles Wilson, will present a concert of Sacred and Secular Music of the Baroque and Classical Periods on Wednesday, April 6, at 8 p.m. in Chalmers United Church, Guelph.

Featured soloists will be Elizabeth Neufeld, soprano, and John Hollywood, baritone. The program will include works by Schutz, Purcell, Haydn and Mozart.

Tickets for the concert are available at the central box office, University Centre, Ext. 3940 and at the Joor on the evening of the performance. General admission is \$4; students and senior citizens \$3.

*Heads and strong backs bend to the task of coping with the snowstorm that hit the campus on the first day of spring. The storm confirmed that our earlier spring reveries were too much of a good thing (see News Bulletin 83 03 17.)*

## Scottish Festival *Continued from page 1.*

Nine Steps." The British Tourist Authority is lending films about Scotland, and Scottish Television in Glasgow is sending over some videos.

A folk music and folk song competition will take place May 14 and there will be a program of talks on country-dancing, Highland dancing, pipe music and Scottish music. From May 13 to May 16, some 35 papers on the theme, "The Scottish Experience in Canada" will be presented by scholars from across Canada and the United States. On the same dates the University Centre will feature clan and society booths, crafts, demonstrations and displays of Scottish books.

On May 14 in downtown Guelph there will be pipe bands, dancers, the North West Company Voyageurs and displays of 18th century drills and musketry of the 74th Highlanders and the 84th Royal Highland Emigrant Regiment. The Western Ontario Highland Dancing Competition will take place at the Royal Canadian Legion May 15.

Several exhibitions are also planned: the A.Y. Jackson exhibition at the Macdonald Stewart Art Centre; "The Story of Gael" exhibition, on loan by An Comann, Inverness, Scotland and a special Scottish Heritage Exhibition at the Guelph Civic Museum.

Scottish books and manuscripts will be displayed at the University's Library where staff will offer tours of the Scottish collection. There will also be a Provincial Archives/Ontario Heritage Foundation exhibition and a Scottish exhibit at the Faculty Club.

For further information or to purchase tickets, visit the Festival's office, Room 054, MacKinnon building or telephone Ext. 3154.

Henry Gwozdowski, Festival co-ordinator, assures everyone that the events are not limited to Scots. Says he: "The Scots have always been a cosmopolitan group. Come along and help them scrutinize and re-evaluate their myth" □



# Employers, students enthusiastic about work program

The Ontario Work Study Program, established to help financially needy students, is also getting a lot of jobs done on campus, says Lin Coburn, Counselling and Student Resource Centre.

Thirty-five students are employed under the program which began in January. They work at jobs ranging from research and library work to computer-related jobs and repairing athletic equipment. For them, the program provides valuable work experience and the opportunity to make contacts, in addition to the obvious financial aid.

Employers are also enthusiastic about the program. History professor Ted Cowan has two students working on the Scottish Heritage Festival, of which he is chairman. The students do publicity, distribute literature, contact the media and organize volunteers for the project. He says he has found the students extremely useful and reliable. "In fact, they are so enthusiastic about the project that they want to continue working on the Scottish Heritage Festival when the Work Study Program ends," he says.

Biologist Alan Watson has a student coordinating volunteers for the maple syrup program at the Arboretum. "She (the student) is very enthusiastic and maintains good contact with the volunteers, who have to be handled with kid gloves because they're

doing it for nothing." Mr. Watson says that by having the student worker, he has more time to do the training sessions for volunteers.

In the Department of Human Biology, Professor John Brooke has a student worker who is majoring in applied human nutrition. Under the Work Study Program, she codes amino acid values for different foods. This is part of an ongoing study in the Department on brain neuro-transmitters and the precision of human performance.

Prof. Brooke says that one aim of the program is to capitalize on the strengths of students and that employers should be sensitive to where the students' strengths are. He describes his student as "an enthusiastic, keen, competent worker" and is glad that, in his case, the student and the job are so well matched.

Students in the program are also positive about their experiences. One student, who is compiling a directory of research projects for the Office of Research, says he is learning a lot about research for the private sector.

Another student in the fisheries biology program is involved in a fish nutrition project, maintaining the systems, feeding fish and becoming familiar with the operation and management of the fish systems.

"For me, the experience is more important than the money because it is directly related to my field of study," he says. "I'm beating the 'Catch-22' of people not being hired in the biology field without having experience and not having experience without having a job."

The Program, instituted in January, is subject to review by the Ontario government in April. Organizers and participants at the University are hoping it will continue. Under the current guidelines, financially needy students who qualify for the program, can work up to 15 hours a week and earn up to \$500 a semester. □

## Distinguished lecturer

The Guelph-Waterloo Centre for Graduate Work in Chemistry will host the head of the department of organic chemistry, University of Groningen, The Netherlands, Professor Hans Wynberg, next month.

From April 24 to April 30, Dr. Wynberg, whose research has concentrated on a better understanding of enzyme function, will be speaking in seminars at Guelph and the University of Waterloo, and meeting staff and students.

Dates and times of his lectures, part of the Distinguished Lecturer Series for 1982-1983, will be listed in "Next Week at Guelph." Details: Greg Colter, Ext. 8313. □

**MUSIC CRITIC** Arthur Jacobs will give a public lecture, "The Critic at the Opera," Wednesday, April 6, at 1 p.m. in Room 107, MacKinnon building.

Born in Manchester, England in 1922, Mr. Jacobs was first appointed as music critic with the Daily Express in 1947. From 1964 to 1979, he taught at the Royal Academy of Music in London.

While opera has been one of his prime interests, Mr. Jacobs has also been concerned with new forms of music-theatre and is a strong advocate of the performance of opera in English. He has translated many operas into English and has written original librettos.

The lecture is sponsored by Concert Management, Department of Music.

**THERE ARE STILL** some vacancies for the trip to New York, April 22, sponsored by Continuing Education and the Macdonald Stewart Art Centre.

The Metropolitan Museum of Art's exhibit, "Treasures of the Vatican," is one highlight of the tour, as well as visits to the Museum of Modern Art to see "Prints from Blocks: Gauguin to the Present," and the Whitney Museum's 1983 Biennial Exhibit of American Art Works.

The deadline for registration for the tour is Thursday, March 31. The price of \$300 (Cdn) includes airport transfers, return airfare (Buffalo-Newark), double accommodation at the Barbizon and admission to the three galleries.

Register at Ext. 3814 or in Room 103 Johnston Hall, between 8:30 a.m. and 4:45 p.m.

**THE GUELPH SPRING FESTIVAL** and the University's Music Division are presenting a weekend of performances, background lectures, discussions and information meet-the-artist receptions, May 20 to May 22. The 1983 music seminar will explore the drama in the music theatre of Benjamin Britten and in Haydn's oratorio "The Creation."

Participants include Britten's biographer Donald Mitchell, composer Louis Applebaum, Metropolitan Opera tenor George Shirley and Peter Hardwick and Gerald Neufeld, University of Guelph Music Division.

Registration for the seminar (\$65 adult, \$50 senior and student) includes all lectures, presentations and performances, the May 20 seminar and the luncheon, May 22.

For details, contact Dr. Peter Hardwick, seminar chairman, Ext. 3142, or the Guelph Spring Festival box office, 821-7570.

**A PARTICIPATORY WORKSHOP** entitled "Popular Theatre and Popular Struggle" with Ross Kidd will be held Tuesday, April 5 from 7 to 10 p.m. in Room 442, U.C.

There will be a minimum donation of \$2 requested at the door for the workshop which includes an explanation and demonstration of the use of theatre as a tool for teaching and protest. The audience will view slides and videotapes of various theatre movements throughout the world and actually participate in the creation of theatre.

This workshop is sponsored by The Development Education Program and the Centre for International Programs, Ext. 3778.

## THE UNIVERSITY WITHOUT WALLS

International Council is holding its second International Conference, June 9 to June 11 in Toronto.

The theme of the conference is "New Concepts in Higher Education." There will be four areas of concentration: holistic education, values of higher education, approaches in higher education for today and the future, and techniques and technologies in support of effectiveness for higher education.

The deadline for submitting proposals is April 15. For further information, please write: UWWIC - Secretariat, c/o Canadian School of Management, 4-126, 252 Bloor St. W., Toronto, Ontario M5S 1 V5 or telephone 416-960-3805.

**A NUMBER OF BURSARIES** are still available from the Norma Valeriote Third World Bursary.

Applicants must be students from Third World Countries, as defined by the United Nations, who are registered in a program at the University of Guelph and can demonstrate financial need.

Applications are available from the International Students Advisor's Office, Counselling and Student Resource Centre, 3rd floor, UC.

**THE COLLEGE WOMEN'S CLUB** is sponsoring a bus trip to Corning, New York, April 27, 28 and 29. The cost of \$110 (Cdn.) per person includes bus transportation, two nights at the Corning Hilton (double occupancy) and admission to the Corning glass museum.

For details, contact Mary Okashimo, 821-1257.

# International Programs plans in place

Professor John Cairns, Director of the Centre for International Programs, has returned from China where he furthered arrangements for the Beijing-Guelph link and clarified plans for the jointly sponsored Guelph-Beijing animal science conference to be held in China in 1984.

Prof. Cairns reports that his visit was productive. Although the exchange program between the University of Guelph and the Agricultural University of Beijing (Peking) is difficult to administer because of problems in communication and different administrative systems, he believes the link will prove interesting and rewarding for the Guelph faculty members involved.

Prof. Cairns renewed his acquaintance with Dr. An Min who visited Guelph in July as head of a team of agricultural scientists, and is now Vice-Chancellor of Beijing Agricultural University.

As planned, the first visitor to Guelph under the Canadian International Development Agency (CI DA) exchange program will be veterinarian Chen Jia-pu who will work for three or four months with Professor Frank Milne, Clinical Studies, beginning in late April. In May, Land Resource Science professors, Terry Gillespie and George Thurtell, will travel to Beijing to give a three-week course in agrometeorological instrumentation.

Plans call for the four-month visit of an agrometeorologist from China this year and another land resource science professor, probably in 1984. Veterinarians Dick Julian, Dennis Howell and Bernard McSherry are expected to visit China this year with a further half-dozen Guelph faculty member visits planned for 1984.

A Guelph team made up of veterinarian Russ Willoughby, animal scientist Roger Hacker and agricultural engineer J.R. Ogilvie has been working on plans for an interna-

tional conference to be held in spring or summer of 1984 in Beijing. The theme of the event, which will be attended by about 50 Chinese and southeast Asian scientists, will be "Confined Animal Production Systems." A Canadian team of five, including the Guelph planners, is expected to attend the conference which is being funded two-thirds by the Chinese and one-third from Canada, probably by CIDA.

While he was away, Prof. Cairns also visited the Universiti Pertanian Malaysia to help finalize plans for the "Teaching Methods in Agriculture Workshop" to be held in June for 25 southeast Asian teachers, under the co-ordination of Professor Jim Shute, School of Agricultural Economics and Extension Education.

He also conferred with the Malaysians on a similar course in veterinary immunology planned for May, 1984, under the co-ordination of Professor Bruce Wilkie, Veterinary Microbiology and Immunology.

In Bangkok, Prof. Cairns met with the Canadian Embassy and the Thai Ministry of Science, Technology and Energy to talk about preliminary plans for a training course on computerized systems in management and administration. This will be run for about 25 government senior management personnel under the direction of Swami Swaminathan, Academic Computer Services, Institute of Computer Science, and Professor Ian McMillan, Animal and Poultry Science.

Prof. Cairns stopped off in London to confirm arrangements for the meeting on Price Policy and Agricultural Marketing being held for senior agricultural planners from Commonwealth countries in May. This international gathering is co-sponsored by the University of Guelph, with agricultural economists Truman Phillips and Stewart Lane involved in the planning from this end. □

## Computer model assesses runoff

School of Engineering researchers are using a computerized model to assess storm runoff for different types of surface areas in southern Ontario watersheds.

The Guelph Agricultural Watershed Storm-Event Runoff (GAWSER) Model, developed in 1975 by Professor Hugh Whiteley and S.R. Ghate, can be used by engineers in designing bridges, dams and flood control walls.

The model uses mathematical equations from a computerized data base instead of a full-scale physical model of a watershed to examine the relationship between flow-paths in the watershed.

Measured values for rain, snowmelt and evaporation data are entered into the computerized program. The model then calculates the resulting stream flow and soil water conditions.

The calculations can be done with historical or imaginary storms. The model can be manipulated to change the flow-paths to show the effects of different types of land use.

The advantage of the model is its flexibility which allows users to predict the consequences of extremely rare events, says Prof. Whiteley. "For example, a researcher could calculate the effect of rainfall, similar to the Hurricane Hazel levels of 1954, on the Grand River watershed."

The GAWSER model was first developed to study the influence of overland runoff on phosphorus levels in the Great Lakes. □

### Board of Governors *Continued from page 2.*

Full-time visa students registered after September 1, 1982: Type A, \$1,890; Type B, \$3,080. Part-time: Type A, \$380; Type B, \$615.

#### Graduate Tuition Fees

The Board approved the following graduate tuition fees for 1983-1984:

Canadians and permanent residents, effective May 1, full-time: residency, \$406 per semester; post-residency, \$290 per semester. Part-time, \$270 per semester. Special non-degree, per course, \$135.

Graduate visa students registered before September, 1982: full-time, per semester, residency, \$960, post-residency, \$686; Part-time, \$640, and special non-degree, per course, \$320. Those registered after September 1, 1982: full-time, residency, \$2,205; Post-residency, \$1,575. Part-time, \$1,470, special non-degree, per course, \$735.

### Capital Project Status Report

Installation of the central control unit for the Central Utilities plant continues. Several buildings are on-line and the project is expected to be completed by the fall.

A building committee has also been appointed to prepare a plan for expansion and renovations at the OVC.

### Macdonald Stewart Art Centre

The Art Centre has applied to the Canada/Ontario Employment Development Program to undertake landscape and construction work as the first phase in developing a sculpture garden at the south side of the centre. The work, scheduled to begin in May, is expected to be completed by October. Concept plans, prepared for the University by W.E. Coates and Associates for the four corners at College and Gordon Streets, will form the basis of the design. □

The M.Sc. examination for Dr. M. Bigras-Poulin is Thursday, March 31 at 9:30 a.m., Room 101, Veterinary Microbiology and Immunology. His thesis is "The Influence of Dairy Farm Managers' Socio-Psychological Characteristics and Management Practices on Farm Performance."

Dr. Bigras-Poulin's supervisor is Dr. A.H.

The final oral examination of William R. Brown, Biomedical Sciences, a candidate for the Ph.D. degree, will be held Tuesday, April 5, 10 a.m., Room 209 (main building), OVC. The title of his thesis is "The Asebia Mouse: A New Animal Model for Psoriasis."

His supervisor is Dr. M.H. Fallding, Biomedical Sciences. □

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## Last ice cream course for Prof. Pearson

The two-week ice cream short course held on campus recently ended with a special awards banquet. The get-together was for the participants and the presentation of diplomas to the successful candidates by OAC Dean C.M. Switzer.

This year marked the last ice cream course to be conducted by Professor Sandy Pearson who will be retiring after the winter semester, 1983. In recognition of his "last stand," a special ice cream dessert in the form of a large ice cream cone was served at the dinner. The students showed their appreciation to Prof. Pearson with some highly complimentary testimonials about the calibre of the teaching and course content. As a parting gesture they presented Prof. Pearson with a set of wine glasses and a selection of wines. Entertainment was provided by a jazz ensemble consisting of Professors Sandy Pearson, clarinet; Al Myhr (who assisted with the course) on piano, and Al Colter, Chemistry Department, on trumpet.

This was the 68th short course provided for the ice cream industry. The first one was given at OAC in 1914. It was the 28th course given by Prof. Pearson. The course has become recognized nationally and inter-



Left to right: Professor Ron Usborne, Chairman, Food Science, Dean Clay Switzer and Prof. Pearson.

nationally for its high professional standards and for its success in meeting the practical needs of the ice cream industry. Again this year, the course was oversubscribed with 24 students participating. Two-thirds of them were from Ontario, and the others were from Quebec, Prince Edward Island, Nova Scotia, New Brunswick, Newfoundland and Trinidad.

Winner of the Bowes Company trophy and gold watch for highest proficiency in the course was Margaret McLaren, Dominion Dairies Ltd., Toronto, a 1982 graduate from the Food Science Department at Guelph. □

## Liberal Education series ends



Moderator Mark Lapping, Director, University School of Part-time Studies and Continuing Education, led the panel in the last discussion of the "Living in a 'No Growth' Society" series, last week.

He told the audience that questions raised throughout the series were by no means resolved, and invited questions and discussion from the floor.

In the course of discussion, Alderman Anne Godfrey, City of Guelph, stated that it was up to the electorate to ensure that political leaders have morals and honor by using their own judgement in the selection process.

Professor Tom Settle, Philosophy, countered that the social system dictates that politicians have responsibility and that, it is up to the people elected to carry out that responsibility.

A member of the audience suggested that politicians are more concerned with economic issues and the source of money for their next campaign and do not acknowledge their moral responsibility.

Associate Librarian, John Black said it is difficult for the individual to get the facts straight in a society where there is so much information available. He suggested that "television has done a disservice by giving people the perception that they know the facts because they've seen it on television." In reality, what people see is subject to a complex system of gatekeepers, which involves a filtering, channelling and focusing of information.

Members of the panel ended the series by suggesting what the individual could do to tackle the ethical problems raised during the discussions.

Prof. Settle said people should not view the government as an inexhaustible source of subsidy and should look for sensible pieces of legislation and lobby for them.

Prof. Black suggested that people should not assume that technology is going to solve all the problems: "We must take advantage of the technological alternatives and the range of access to information about all issues that are available."

Mrs. Godfrey quoted Bertrand Russell, saying that we must care about what comes after us when making decisions.

Dean John Vanderkamp, Social Sciences, noted that at tax time, we should not complain about taxes when we expect the government to do a lot about growth-related issues, such as pollution.

Prof. Lapping ended the series with a quotation from the comic strip, *Pogo*: "The problem is us. We are the enemy." □

**A PROBLEM** for Test Scoring System users with the OMR card reader has been solved by IBM. A switch on another device sharing the same channel as the card reader was set so that the reader did not get its required priority on the channel.

As final examinations are approaching, ICS is taking additional measures to assist in reading on examination results. The OMR feature will be tested before examinations begin and ICS is setting up prime times for reading on OMR cards.

Although Test Scoring users may read on cards at other times, during the hours listed below, ICS will ensure that an OMR expert is on call. ICS staff in the Computer Lab should be informed of difficulties encountered; then contact the person on call if they cannot solve the problem.

An expert will be on call from Monday, April 11 to Tuesday, April 19 during the following times: Monday to Friday, 3 p.m. to 6 p.m., and, Saturday, 1 p.m. to 4 p.m.

**A LIGHT LEFT ON IS ENERGY GONE**

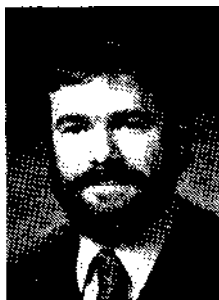
**THE UNIVERSITY OF GUELPH** Poster has received two Certificates of Excellence from the American Institute of Graphic Arts.

**A RECITAL** of English song, with Elizabeth Neufeld, soprano, and Brahm Goldhamer, piano, will be held Friday, April 8 at 8 p.m. in Harcourt United Church, Dean Avenue, Guelph. The concert will feature works by Henry Purcell and Benjamin Britten. Tickets are \$4 at the door.

Technician, Pathology. Grant position commencing April 1, 1983. Salary Dependent upon qualifications and experience.  
Secretary, Department of Residences. Salary range: \$234.58 - \$333.31. Open to on-campus employees only.  
Agricultural Assistant, Animal and Poultry Science. Salary grade 016. Shift 1. Start rate: +59.27. Six-month rate: \$377.13. One-year job rate: \$395.02.

### John Havlin

John L. Havlin has joined the Department of Land Resource Science as assistant professor. His major responsibility is as extension co-ordinator for the Department. He will also conduct soil fertility research and provide graduate supervision.



Prof. Havlin completed his M.Sc. and Ph.D. degrees in the department of agronomy, Colorado State University. His dissertation research focused on potassium and phosphorus chemistry and fertility in calcareous soils. Following his B.Sc. degree in chemistry, Prof. Havlin farmed in central Illinois for four years before entering graduate school. He has had extensive teaching experience at Illinois and Colorado Universities. Prof. Havlin received two fellowships while at Colorado for his academic and research accomplishments. He was active in university politics and served a two-year term as president of the graduate student council of Colorado State. He also served on various faculty committees concerned with graduate education.

He has published several papers in scientific journals and has presented his research results at numerous national and regional meetings.

### Mohamed Kamel

Mohamed Kamel has been appointed assistant professor in the Department of Computing and Information Science.

He has a B.Sc. in electrical engineering from the University of Alexandria, Egypt, an M.Sc. in computing science from McMaster University, and a Ph.D. in computing science from the University of Toronto.

Prof. Kamel has spent the past two years working as senior engineer and project leader at NCR Canada in Waterloo. He was also an adjunct professor at the University of Waterloo.

His research interests are optimization techniques, artificial intelligence and computer graphics projects. Prof. Kamel's teaching responsibilities at Guelph will include senior level computing science courses.



### Alex Lopez

Alex Lopez has joined the Department of Computing and Information Science as co-ordinator of part-time studies and continuing education, and lecturer.

Mr. Lopez has a B.Sc. in engineering from the University of the State of Mexico, an M.Sc. in systems engineering from the University of London, and an M.Math in computer science from the University of Waterloo.

During the past year, Mr. Lopez has been part-time lecturer at the University of the State of Mexico and head of research and development for Mexico's Information Department in Toluca, Mexico.

Mr. Lopez will be organizing and coordinating part-time studies and continuing education in the Department of Computing and Information Science as well as teaching courses and labs in the certificate program.



### Penny Clelland

Penny Clelland has joined Independent Study, a division of the School of Part-time Studies and Continuing Education, as editor/promotions officer.

Mrs. Clelland was previously a freelance writer for Information Services and Cheryl Jones Advertising, among others, and was editor of the Canadian Jersey Breeder magazine. She received a B.A. in English from the University of New Brunswick.

Mrs. Clelland is responsible for developing promotional programs and materials to increase public awareness of Independent Study courses. She also edits new and revised courses and provides editorial assistance to course authors.



THE CANADIAN SOCIETY for the Comparative Study of Civilizations is planning a one-day session on June 4 during a meeting of the Learned Societies in Vancouver.

The session themes will be "Slang and Dialect as Expressions of Civilization" and "Civilizational Encounters in Twentieth Century Literature."

Proposals for the second session should be sent to: Dr. Yvonne Bogorya, Dean, Academic Affairs, Northland Open University, Toronto Learning Centre, Canadian School of Management, Suite 4-126, 252 Bloor St. W., Toronto, Ont. M5S 1V5 by April 15.

## Fluorescent dye used for soil study

Researchers in Land Resource Science have developed an improved technique for assessing the porous nature of soil.

Professor Dick Protz and graduate student, Martin Shipitalo, impregnate undisturbed blocks of soil with a type of plastic containing ultraviolet fluorescent dye. The blocks are then cut into sections about 1 cm thick and polished. The soil is then photographed under ultraviolet illumination and voids or pores are revealed.

Voids are an important part of soil structure, says Mr. Shipitalo, because they allow water, nutrients and gases to move through the soil. Tillage opens up voids in the soil and provides a better environment for root growth.

"Characterizing soils and their porous properties is like trying to characterize the holes in a sponge," he says.

Mr. Shipitalo's process will allow soil scientists to determine which tillage practice gives soil the best void combination.

Previous techniques used slices of soil as thin as 30 microns and revealed pores under polarized light at a cost of \$40. This new process uses thicker samples for half the price. In addition, the computer used for analysis in the first process costs about five times as much as the image analyzer Shipitalo uses in Land Resource Science.

If a soil is too compact, water infiltration and increased run-off can lead to serious erosion problems and poor crop yields. In addition, roots may not be able to develop quickly or deep enough and gas exchange may be poor. □

### R.H. Dalitz

R.H. Dalitz, Royal Society Research Professor in the department of theoretical physics, Oxford University, England, is a Distinguished Visiting Professor in the Department of Physics. His visit is jointly sponsored with McMaster University.

Prof. Dalitz is a distinguished researcher in the field of elementary particle physics, and he has made numerous important contributions to the development of this field. His work received early recognition, and he became a Fellow of the Royal Society at the age of 35 years.

He will give two lectures at Guelph and two at McMaster University. Details: Professor Gabriel Karl, Ext. 3992.

**A CROP ADVISOR** for greenhouse flower crops with the Plant Industry Branch, OMAF, John Hughes, is now located in the Department of Horticultural Science, room 241, ext. 8910.

# Next Week at Guelph

## THURSDAY, 83 03 31

Housing in Canada - OPPORTUNITIES FOR INFILL DEVELOPMENT IN THE 1980s, R. Moffi, 1410, FACS106.  
Graduate Research Seminar - EVALUATION OF PROLACTIN AS A PHYSIOLOGICAL STRESS INDICATOR IN SMALL CETACEANS, C.A. Thomson, 1110, Path. 220.  
Visiting Professor - ADVANCES IN BIOTECHNOLOGY AND APPLICATIONS IN VETERINARY MEDICINE, Dr. Lorne A. Babiuk, 1530, Path. 220.

**Worship** - CATHOLIC MASS, 1700, chapel, level 5, DC.  
**Apiculture Club** - ELECTIONS, 1710, Graham Hall, Rm 200.  
Inter Varsity Christian Fellowship - LIVING MORE SIMPLY, Dr. Stoutenburg, 1900, AS141.

**Spotlight on the University of Guelph** - OVC EQUINE RESEARCH CENTRE, 1900, cable 8.

Foreign Flicks - ROCKERS, 1930, MacK119.

## FRIDAY, 83 04 01

**Good Friday** - CLASSES CANCELLED.

Faculty Christian Fellowship - 1200, Johnston Hall 157.

**Worship** - ANGLICAN EUCHARIST, 1700, Johnston Hall 158.

## SATURDAY, 83 04 02

**No Scheduled Events**

## SUNDAY, 83 04 03

**Worship** - CATHOLIC MASS, 1000, PCH; CAMPUS CHURCH SERVICE, 1030, P5113.

International Cinema - AMARCORD, 2000, PS105.

## MONDAY, 83 03 04

**Spotlight on the University of Guelph** - OVC, 1830, cable 9.

## TUESDAY, 83 04 05

**Faculty Association** - EXECUTIVE MEETING, 1200, Hoard Room, Faculty Club, Level 5, UC.

**Open House** - GUELPH ENERGY CONSERVATION CENTRE AND NORTHERN VOICES RESOURCE CENTRE, 1300, 15 Suffolk St. F.

**Physics Colloquium** - STUDY OF LOW-TEMPERATURE MECHANICAL PROPERTIES OF  $Nh_2S_2$  USING INTERNAL-FRICTION TECHNIQUES, Dr. C.L. Snead Jr., Brookhaven National Laboratory, 1600, PS113.

**God, Man and World** - 1700, 11C334.

**Worship** - CATHOLIC MASS, 1700, chapel, level 5, UC.

Workshop - POPULAR THEATRE AND POPULAR STRUGGLE, Ross Kidd, 1900, 11C442, Ext. 3778 for details.

Guelph Multicultural Centre - CITIZENSHIP CLASSES, 1930, 128 Woolwich St., Ste. 203.

## WEDNESDAY, 83 04 06

Worship - ANGLICAN EUCHARIST, 1200, Johnston Hall 158; CATHOLIC MASS, 1200, chapel, level 5, UC; IMMANUEL FELLOWSHIP, 1900, AS141; CHRISTIAN DOCTRINE CLASS, 1700, 1112333; CATHOLIC PRAYER GROUP, 1700, chapel, DC, level 5.

Biochemistry Seminar - INTERACTIONS BETWEEN CIRCADIAN CLOCKS AND VISUAL ORGANS IN INVERTEBRATES, Dr. George Renninger, Physics, 1200, Hort124.

Lecture - THE CRITIC AT THE OPERA, Arthur Jacobs, 1300, MacK107.  
Art - PERCEPTION, lecture by Psychology Professor David Piggins, 1400, Macdonald Stewart Art Centre.

Visiting Professor - INFECTIOUS BOVINE RHINOTRACHEITIS - THE VIRUS, THE DISEASE AND THE IMMUNE RESPONSE, Dr. Lorne A. Babiuk, U. of Sask., 1500, Path. 220.

**Music** - UNIVERSITY OF GUELPH CHAMBER SINGERS, Charles Wilson, conductor, 2000, Chalmers United Church.

## THURSDAY, 83 04 07

**Graduate Research Seminar** - TYING UP SYNDROME IN HORSES: A PATHOLOGICAL STUDY, S.A. McEwen, 1100, Path. 220.

Visiting Professor - ROTAVIRUS INFECTIONS IN CATTLE, Dr. Lorne A. Babiuk, U. Sask., 1530, Path. 220.

**Worship** - CATHOLIC MASS, 1700, chapel, level 5, DC.

**Spotlight on the University of Guelph** - OVC, 1900, cable B.  
Inter Varsity Christian Fellowship - RAISE MEETING, 1900, AS141.

Goods and Services

Available

Numerical analyst available for computing and simulation, 837-3015; neat, fast typing, IBM Selectric, 822-2713.

Wanted

Ride from Kitchener (Belmont & Highland) to U. of G. weekdays, 0800 to 1630, share gas, 578-3363 evenings; tent for 2-3 people, 836-8597; used bar fridge, 822-2622; left-handed golf clubs for tall man, 836-3033 after 1800.

For Sale

1974 Renault 12, 821-0938, evenings; 1974 Chevelle Malibu Classic, red, 77,000 miles, 8 mm. movie camera and projector, brass-plated cannon-ball-style double bed, 8mm. film projector and camera, 836-9768; mohair fleece, 824-9389, evenings; Gianinni 6-string acoustic guitar, stereo cassette tape deck, TV, hunting-archery bow with arrows and all accessories for target hunting, 822-0634; leather motocross pants and boots, 1976 Rambler house trailer, 836-5713, evenings; 1978 Datsun 280Z, 836-0220 after 1800; three bedroom bungalow near Church of Our Lady, available May 1, 823-1640 evenings; white wooden colonial Lepine crib and mattress, 821-6276; front and rear wheels for 27" 10-speed bike, 2 10-speed hikes, 2 3-speed bikes, 2 coaster brake hikes, 822-4988; GSW wringer washer, 836-1915 evenings; Appaloosa gelding, 15.2 hh, goes English or Western, 836-9878; single bed box spring and mattress, 10 X 12 green wool carpet, 822-9331, weekday mornings.

For Rent

One bedroom summer cottage, self-contained, with fireplace, on private lake in Rockwood area, available weekly, June 1 to Aug. 20, 856-9245, evenings; fully furnished one bedroom apartment, April 23, 836-9768; 3 bedroom bungalow, Guelph Line, 15th sideroad, available May 1, horse boarding available, 416-854-2422; 2 bedroom house, 10 minutes from University, available May 1, 821-6547.

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