

AT GUELPH

41st
Year

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April 9, 1997

AT A GLANCE

Chualvo to speak. Update '97, a professional-development event for secondary school teachers and counsellors, runs on campus April 25. Dozens of U of G faculty, staff and students will share their expertise with participants. Keynote speaker is boxing great George Chualvo, who will discuss his work in the prevention of teen drug abuse. This year marks the 15th anniversary of the Update program.

Food drive on. The Guelph Food Bank's annual spring food drive runs until April 13. You can drop off food donations at Guelph fire stations, supermarkets and the Food Bank warehouse at 100 Crimea St. Current emergency needs include tuna, salmon, meats, peanut butter, cheese spread, jam, canned juice, rice, pasta, pasta sauce, milk powder and diapers.

B of G approves increase. As of May 1, tuition fees at U of G will rise an overall nine per cent. . . . page 4

A team effort. Focus, teamwork and organization are the keys to Guelph's fund-raising success over the past year, says VP John Mabley . . . page 5

Thought for the week
Spring — an experience in immortality.

Henry David Thoreau



Say cheese! PhD student Nucharin Songsasen is part of a team that has developed the only known simple and reliable method to freeze mouse sperm, a technique with significant implications for studying human disease and developing pharmaceuticals. See story on page 8.

Photo - Martin Schwalbe

Enhanced partnership is one of U of G's biggest undertakings

by Owen Roberts
Office of Research

One of the biggest endeavors in the University of Guelph's history was realized last week when it welcomed 386 new employees from the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and assumed operation of several ministry facilities, signifying the beginning of the U of G/OMAFRA enhanced partnership.

The new U of G staffers are all former members of the ministry's Education, Research and Laboratories Division (ERLD). They're located at Ontario's three agricultural colleges (Ridgetown, Kemptville and Alfred), the Agriculture and Food Laboratory Services Centre on Stone Road (see story on page 3) and the Horticultural Research Institute of Ontario in Vineland, all of which are now part of U of G.

To support these new employees and facilities, OMAFRA's transfer to the University will rise from the current \$33 million annually to \$54 million.

"The new partnership is being hailed as an unparalleled example of government/university interaction, not just in Ontario, but indeed in North America," says president Mordechai Rozanski.

"By working together over the years, we've helped provide Ontario with inexpensive food, new products and increasingly economical and environmentally sound farm practices. Now, our partnership will continue to be the cornerstone of Ontario's agri-food industry and will have important economic and environmental implications for all Canadians."

The initiative follows more than a year of strategic planning by University and OMAFRA officials. They agreed to a memorandum of understanding in June 1996, followed by a memorandum of agreement in October. Six teams of U of G and OMAFRA staff were assigned to lead the transition to the new partnership, which took effect April 1.

See PARTNERSHIP on page 3

Alexander to serve third term as Guelph chancellor

Lincoln Alexander will serve a third three-year term as chancellor of U of G.

On March 19, Senate re-elected the popular former Ontario lieutenant-governor to a term that begins in October and continues to 2000. Senate bylaws stipulate that there is no limit to the number of additional terms a chancellor may serve.

At the March 27 meeting of Board of Governors, chair Doug

Dodds announced Alexander's reappointment to the applause of board members.

The chancellor, who first took up his post in 1991, said he is delighted to serve again. "It is an interesting and challenging position that I love, and I hope I am able to meet your expectations."

As Guelph's sixth chancellor, Alexander has worked tirelessly for the University, especially in recruitment and fund raising. He has won the hearts of high school students across Ontario at Guelph's information days and has conferred degrees on thousands of U of G graduates at convocation.

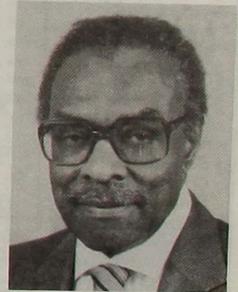
He is chair of the advisory committee for the University's booming ACCESS program, which is projected to raise more than \$7 million (to be matched by the provincial government) in endowed funds for student aid. He also

serves on B of G's external relations committee and the board of trustees and is an active public supporter of the University.

The chancellor's efforts reflect deep personal beliefs. Son of a Canadian Pacific railway worker and a maid, he was the first member of his family to receive a university education. He views education as an empowerment. It's not only the key to a job, he says, but it's also an opportunity for students to develop their talent to the maximum.

Among those closest to him at Guelph, Alexander is described as someone who has dedicated his life to public service — as a Queen's representative, lawyer, cabinet minister, United Nations observer and chair of the Workers' Compensation Board. He is also the recipient of numerous honors and awards.

President Mordechai Rozanski



Lincoln Alexander

says the chancellor has been and will continue to be an outstanding cheerleader and fund raiser for the University.

"He is inspiring and encouraging to us all," says Rozanski. "We are very fortunate to have him as our chancellor." □



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PEOPLE

Prof. **John McMurtry**, Philosophy, gave the Bank of Montreal Distinguished Visitor Lecture at Trent University in March. His topic was "The Banks and the Cancer Stage of Capitalism: From Cause to Cure." Discussion of the paper continued with faculty and students at an interdepartmental seminar the next day. McMurtry also addressed faculty and students in York University's Social and Political Thought Program, an internationally known interdis-

iplinary program. His topic was "Concepts of Capital: The Post-Marxian Horizon."

Prof. **Patrick Kyba**, Political Studies, and graduate student **Wendy Green-Finlay** presented a paper on the "Political Leadership of John Diefenbaker" at a conference of the Diefenbaker Legacy in Saskatoon. Kyba, who is author of *The Hon. Alvin Hamilton, PC*, also participated in a panel discussion on the art of writing political biography. □

Obituaries

Roy Harrison, who retired from the University in 1976 after 49 years of service, many of them as head herdsman for the Department of Animal and Poultry Science, died April 2 in Guelph. He was 85. The stone house he lived in near the Arboretum was named the Harrison House in his honor in 1980. Mr. Harrison is survived by his wife of 62 years, Rhea. A tree will be planted in his memory in the Arboretum's Wall-Custance

Memorial Forest Sept. 21 at 2:30 p.m.

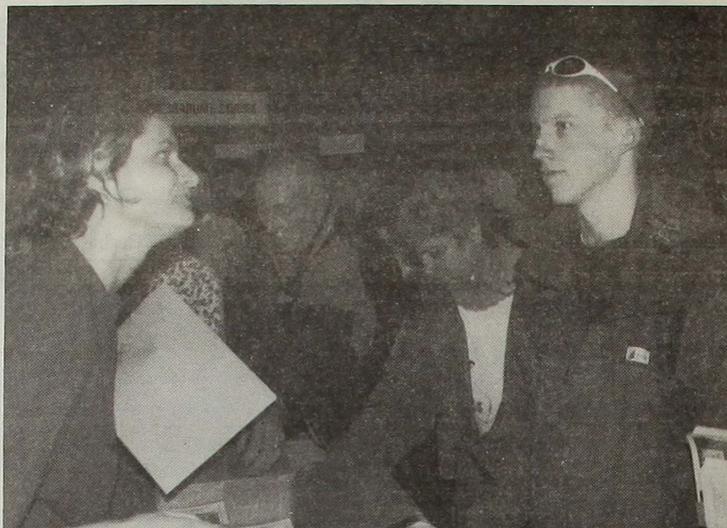
Donald Willis, who retired from Housekeeping in 1995 after 26 years with the University, died April 4 in Guelph. He was 63. He is survived by his wife, Helen, and his children, Keith, Rodney, Trevor, Denise and Eric of Guelph and Karen of Kitchener. A tree will be planted in his memory in the Wall-Custance Memorial Forest Sept. 21 at 2:30 p.m. □

Keep us informed!

If you are organizing an event on campus, remember to send information well in advance to appear in the "Calendar" and "Notices" sections of *At Guelph* and on our *News Watch* Web site. Mail to *At Guelph*, Level 4, University Centre, fax to 824-7962 or send e-mail to hbchance@exec.admin.uoguelph.ca.

The following is a list of *At Guelph's* publishing and deadline dates throughout the spring semester.

Publication date	Copy deadline
April 23	April 16
May 7	April 30
May 21	May 14
June 4	May 28
June 18	June 11
July 2	June 25
July 16	July 9
July 30	July 23



Get to know us! Liaison officer Angi Gallupe welcomes a student to Campus Days in March. The days brought 2,600 high school students and parents to U of G to learn more about the University — an increase of 45 per cent over attendance at last year's program. U of G's Toronto information night March 24 drew 500 people.

PUBLICATIONS

Prof. **Peter Kevan**, Environmental Biology, edited the recently published book *The Asiatic Hive Bee, Apiculture, Biology and Role in Sustainable Development in Tropical and Subtropical Asia*. Authors are experts in bee biology from India, Pakistan, Bangladesh, Malaysia, Thailand, Sri Lanka, China, Indonesia, Philippines, Great Britain, Germany, Sweden and the United States. The book grew out of a course presented by Kevan and colleagues in Malaysia. It is available at the University Bookstore and U of G Library.

Prof. **Bill Graf**, Political Studies, is author of "Democracy for the Third World: Critique of a Hegemonic Project" in the current issue of the *Canadian Journal of Development Studies*.

Prof. **David Piggins**, Psychology, is co-author with Clive Phillips of the University of Cambridge of "Sheep Refraction, Correction and Vision in Lewis Carroll's *Through the Looking Glass and What Alice Found There* (1871)," which appeared in *Ophthalmic and Physiological Optics*, Vol. 17, No. 1.

Prof. **Gauri Mittal**, School of Engineering, is editor of *Computerized Control Systems in the Food Industry*, a comprehensive reference that systematically covers the fundamentals and latest advances in computerized automation and process control, control algorithms and specific applications essential to food-manufacturing processes and unit operations.

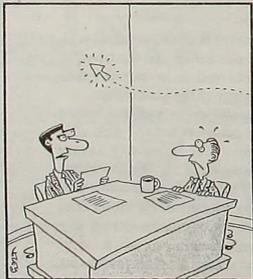
Prof. **Lambert Otten**, Engineering, is editor with Muhammed Fayed of Ryerson Polytechnic University of the *Handbook of Powder Science and Technology*. Now in its second edition, this reference provides comprehensive coverage of the fundamentals of powder science and technology and builds on them, emphasizing practical applications in the design, production, processing and handling of applications.

Prof. **Bill James**, Engineering, is editor of *Advances in Modelling the Management of Stormwater Impacts — Vol. 5*. This is the fifth in a series of books from the international Stormwater and Water Quality Management Modelling Conferences held annually in Toronto. This book is accompanied by a CD-ROM with an extensive database of authors, titles and reference information on more than 4,000 conference papers.

Prof. **Fred Eidlin**, Political Studies, is author of "Some Thoughts on the Collapse of the GDR and its Consequences," in *German Monitor*, No. 37; "Blind Spot of a Liberal: Popper and the Problem of Community," in *Philosophy of the Social Sciences*, 27 (1); and "Karl Popper, 1902-1994: Radical Fallibilism, Political Theory and Democracy" in *Critical Review* 10 (1). He also translated the article "Plato and K.R. Popper: Toward a Critique of Plato's Political Philosophy" by Anastasios Giannaris in *Philosophy of the Social Sciences*, 26 (4). □

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Presidential review committee seeks input

The President's Review Committee has begun soliciting comments from the University community.

Chaired by Board of Governors chair Doug Dodds, the committee consists of B of G members Tanya Lonsdale and David Lees; Prof. Louis Christofides, Economics; Prof. Diana Brydon, English; Prof. Ross Hallett, Physics; staff member Janette Hogan, Admissions; OAC undergraduate student Elliott Welch; and FACS graduate student Judy Paisley-McLagan. The committee intends to present a report to B of G at its June 26 meeting.

President Mordechai Rozanski indicated in February that he is willing to stand for a second term. His first term ends Aug. 31, 1998.

The committee invites written submissions pertinent to the president's reappointment and welcomes representations requested by any individual. Forward submissions in strict confidence by May 16 to the Board Secretariat, Level 4, University Centre, or contact committee secretary Betsy Allan at Ext. 3438, e-mail: ballan@exec.admin.uoguelph.ca. □



Members of the OMAFRA Laboratory Services Division's ISO steering committee proudly display the certification flag. From left are Les Szjarto, John Lynch, Brian Ripley, Temitope Ayanbadejo, Todd Marrow, Nadine Armstrong and OVC professor Carlton Gyles, representing Prof. Larry Milligan, vice-president (research).
Photo - Martin Schwalbe

Murray lecture to focus on agricultural financing

The George Morris Centre presents the 1997 annual Ken Murray Lecture April 22 at 8 p.m. at the Wheels Inn in Chatham.

Guest speaker is David Kohl, a professor of agricultural finance and small business management and entrepreneurship at Virginia Technical University. His topic is "Financing 21st-Century Agriculture: Trends, Challenges and Action Plans."

Kohl is author of four books and more than 175 articles on financial and business-related topics and has twice received the prestigious American Agricultural

Economics Association Outstanding Teaching Award. He has led more than 1,600 workshops for agribusiness groups.

The annual lecture is named for OAC '50 graduate Ken Murray, a former chair of U of G's Board of Governors and a longtime supporter of the University. This year's event will include a special tribute to George Morris. A reception will precede the lecture.

Tickets are \$50 per person and are available at the George Morris Centre. Call 767-5012 by April 11 to reserve a seat. □

New partner is Canada's first ISO 9002 regulatory laboratory

by Owen Roberts
Office of Research

April 1 marked a day of firsts. It was the first day of the new partnership between U of G and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA). It was also a day of recognition for Guelph's Agriculture and Food Laboratory Services Centre, which has become Canada's first public-sector lab to receive the prestigious International Organization for Standardization (ISO) 9002 certification.

The 88,000-square-foot centre, located beside the new OMAFRA headquarters on Stone Road, received notification mid-March of its ISO certification. As a show of support, however, officials elected to wait until the first day of the new partnership with U of G to raise the ISO 9002 flag.

"The ISO 9002 standard is internationally recognized and accepted as a symbol of quality," says John Lynch, research manager for the Laboratory Services Division, which operates the centre. "It will be a boon to the Uni-

versity and to our marketing efforts by helping us attract new business and it will lead to other accreditations and registrations that will benefit our customers and our bottom line."

The six-year-old centre provides centralized access to high-calibre analytical lab services for food quality and safety, and environmental sustainability. It has three main areas of expertise — food chemistry, food microbiology, and pesticide and trace contaminants analysis. Lynch and other centre officials, led by director Bruce Archibald, have been meeting with U of G college deans since the beginning of the year to explore areas of mutual interest and how the centre and colleges can work together.

The centre has a mandate to become a revenue-generating enterprise by contracting its services to industry, government organizations and other clients. Lynch says that mandate will be furthered by the ISO 9002 registration, which promotes global standards for quality systems. These standards are designed to improve operating efficiency and

productivity and reduce costs for participating businesses.

The ISO 9002 application process is stringent, and its standards are highly demanding. Its working theme, "Say What You Do — Do What You Say," requires applicants to examine their entire business process in minute detail for relevant quality standards.

Guided by a steering team of managers and scientists, the centre's 100 staff members worked two years on the ISO 9002 registration application. Lynch says it was a rallying point for the centre and helped chart its course towards a more commercial and cost-conscious era.

"The decision to pursue ISO 9002 registration has proven to be one of the most sound and far-sighted investments our organization could have made to ensure the centre's efficiency and viability," he says. "The exercise required all members of this organization to contribute to identifying how they document and control the work they do. Achieving ISO 9002 status is a source of pride for all of us." □

International programs director up for review

A committee has been named to review Prof. Jim Shute, who will soon complete his first term as director of the Centre for International Programs and has indicated he is willing to be considered for a second term.

Chaired by provost Iain Campbell, the committee consists of Prof. Ron Stolz, Landscape Architecture; Prof. Nonita Yap, University School of Rural Planning and Development; professor

emerita Nora Cebotarev, Sociology and Anthropology; Prof. Wayne Martin, Population Medicine; Prof. Alan Filewod, Drama; and undergraduate student Nathan White.

The committee invites comments from members of the University community. They should be submitted, preferably in writing, to any member of the committee by April 25 and will be dealt with in strict confidence. □

Partnership assures Ontario's role in agri-food education, research

Continued from page 1

Driving this enhanced partnership was major cost-cutting measures by the province, which meant significantly less support for the ministry and the University.

Here's how it unfolded:

In fiscal 1996/97, ERLD had a budget of \$78.9 million. At the time, about \$36 million was transferred to U of G to support its long-standing agreement with OMAFRA for research and services. The remainder was transferred to the colleges, facilities and units that were under ERLD's jurisdiction (the agricultural colleges, labs, etc.).

In November 1995, ERLD was told that its base budget was going to be reduced by \$20.9 million.

"The immediate challenge was

to determine how to perform against those budget constraints and still provide good service," says Norris Hoag, OMAFRA's assistant deputy minister for education, research and laboratories. Hoag and Prof. Larry Milligan, vice-president (research), were the main architects of the new partnership plan.

Their vision became one that would combine services, eliminate duplication and bring in new sources of revenue. This could be accomplished by downsizing ERLD and transferring most of its responsibilities to U of G.

This initiative reduced administration by 60 per cent and offered much more flexibility for generating revenue. Previously, income from lab testing or product sales (milk, hay, etc.) from research or teaching units affiliated

with ERLD was sent to general provincial coffers, instead of being made available to the units that generated it.

Through the new partnership, however, the units are essentially "privatized" and therefore able to use their own income. This gives them more impetus to find new business, particularly from industry.

This change has major implications for U of G. Revenue generation in the new units is expected to raise \$10 million this year, significantly reducing the impact of their \$20-million portion of the provincial budget cut from OMAFRA.

The new partnership is having other benefits. This show of support to the University has sent a strong message externally, reinforcing Guelph's reputation as a

centre of agricultural research excellence. It's attracting new interest for further partnering opportunities with industry and other government ministries, departments and agencies.

"The result of this new partnership will be a concentrated base in

agri-food education and research, co-ordinated by both government and academia," says Milligan.

"We can say with confidence that Ontario's position as the focal point in Canada for agri-food education and research has been assured." □

Food inspectors set up shop

Guelph's critical mass of food expertise expanded even more last week when the Ontario regional office of the Canadian Food Inspection Agency (CFIA) raised its flag at the Agriculture and Agri-Food Canada building in the Research Park on Stone Road.

The CFIA is the federal government's consolidated food-inspection and quarantine services arm. It integrates the delivery of in-

spection and quarantine services formerly provided by Agriculture and Agri-Food Canada, Health Canada and Fisheries and Oceans Canada.

All inspection services related to food safety — a continually expanding Guelph strength — as well as economic fraud, trade-related requirements and animal and plant health programs are provided by the CFIA. □

Board of Governors supports tuition hike of nine per cent

Board of Governors approved the undergraduate, graduate and associate diploma in agriculture tuition fee schedule for 1997/98 March 27. As of May 1, domestic undergraduate tuition fees will rise 10 per cent and domestic graduate tuition fees will go up seven per cent. Tuition for international students won't change from 1996/97.

Despite the government announcement that universities may raise tuition fees for any one program up to 20 per cent and that the institutional average could be 10 per cent, Guelph's changes represent an overall increase of nine per cent. No single program has increased more than 10 per cent. To date, U of G is the only Ontario university that has not implemented the maximum increase.

B of G debated the tuition issue for three hours — the longest debate on a single issue in the recent history of the board. Eighteen students, including the editor of the *Ontario*, were admitted to the meeting as visitors. One representative from each of the elected student groups — Kirsten Middleton of the Central Student Association, Tracey Henry of the Graduate Students' Association and Jennifer Fletcher of Student Senate Caucus — were granted speaking privileges by the board chair. In addition, Sean Lee-Popham, a representative of the students who occupied the presidential offices in February, made a presentation.

These students, the student reps on the board and one other board member spoke against the tuition increase and urged the board to send a message to the government by rejecting the proposal.

Prior to the meeting, the board received a record of comments and questions raised by students at a March 24 town hall meeting called by the president and student groups to discuss the tuition proposal. The agenda package also contained comments from the Senate Committee on University Planning, Senate's March 11 comments, reports from Student Senate Caucus and copies of all letters from students to B of G,

Senate and senior administrators. John Miles, assistant vice-president (finance), gave a preliminary overview of the 1997/98 Ministry of Education and Training (MET) operating budget. He outlined the major assumptions that guide development of the budget and explained how tuition revenue fits into the budget picture.

In 1996/97, \$40 million of the University's \$151-million MET operating budget was generated through tuition fees. The combined effect of the new fee schedule, increased enrolment in years one and two of a new enrolment strategy, and the "flow through" of earlier enrolment decisions will be to increase tuition revenue by \$2.7 million. At the same time, the portion of tuition revenues earmarked by government mandate for student aid will increase by \$500,000, resulting in a net revenue increase of \$2.2 million to the University.

Prof. Alastair Summerlee, acting associate vice-president (academic), presented the fee proposal developed by the Enrolment Management Committee. He noted that the average increase in tuition will be about \$300 per student.

Tuition fees represent about one-third of the cost of coming to Guelph, he said. Residence fees for all residences except family housing units are to remain unchanged for 1997/98; the cost of the meal plan will rise by 1.9 per cent. These increases must be approved by B of G and are expected to come forward to the board in April. For a single undergraduate student, the total cost of attending U of G next year, including tuition, residence (single room), food and other institutional costs, will increase by 3.7 per cent or \$360.

President Mordechai Rozanski noted that tuition covers about 32 per cent of the cost of classroom education at U of G, but 50 to 55 per cent at some other institutions.

Board member Prof. Janet Wood, Microbiology, proposed that U of G defer a \$950,000 repayment in 1997/98 towards re-

ducing the 1996/97 Common Sense Revolution restructuring deficit. These costs total \$1.89 million and must be repaid over two fiscal years, beginning in 1997/98. Wood argued that by delaying the repayment, the University could "mitigate tuition increases and show the government that it is on the wrong track."

Rozanski reminded the board that U of G has the largest operating deficit in the Ontario university system and that B of G has mandated the administration to eliminate the accumulated \$18.6-million operating deficit by 2003/2004.

Board chair Doug Dodds added that the deficit repayment schedule has already been delayed three times. Finance committee chair David Lees noted that, for the financial health of the institution, a delay in repayment is not an option. The motion was defeated.

After B of G passed the tuition fee proposal, the meeting was disrupted by about 40 students who forced their way into the boardroom past University police officers, who had been asked to ensure that the fire capacity of the room was not exceeded. The chancellor and a member of the administration were jostled by the protesters. After the students ignored repeated requests from the board chair to leave, the meeting was adjourned without concluding its agenda.

The students occupied the boardroom for several hours before city police were called in by Security Services. The students were removed without incident, charged with trespassing and banned from the University Centre over the Easter weekend, when the University was essentially closed.

It's estimated that damage to the tables in the boardroom during the occupation exceeded \$1,000. Caretaking staff were required to do a major cleanup of the room.

In an internal memo to the University community March 31, the president condemned the disruption. The students who forced their way into the boardroom and disrupted the meeting defied the governance process and violated the principles of the student rights and responsibilities policy, he said. Judicial proceedings have

been initiated to consider appropriate disciplinary penalties, he said, and the students involved will be held personally responsible for damages and any other illegal actions.

The tuition fee schedule is as follows (percentage increase in brackets):

Undergraduate

Canadian and permanent-resident-status students

Full time: BA, general studies, unclassified, B.Sc., B.Sc.(H.K.), B.Sc.(Agr.), B.Sc.(Env.), B.A.Sc. and B.Comm.: \$1,611.50 (all 10 per cent); DVM, BLA and B.Sc.(Eng.): \$1,750 (10 per cent). Part time: \$322 per course (9.9 per cent).

Auditing of courses: \$190 per course (9.8 per cent).

Visa (international students)

Full time: Level 1, all undergraduate programs except those in Level 2: \$5,140; Level 2, B.Sc.(Eng.), B.A.Sc., DVM and BLA: \$8,380 (0 per cent).

Part time: Level 1: \$1,028 per course; Level 2: \$1,676 per course (0 per cent).

Co-operative education

Per-semester fee:

Academic semesters 1, 2 and 3: \$69 (9.5 per cent).

Work-term semesters: \$453 (10 per cent).

Graduate

Canadian and permanent-resident-status students

Full time: \$1,575 (seven per cent).

Part time: \$1,055 (seven per cent).

Special non-degree: \$788 per course (seven per cent).

Visa (international students)

Full time: \$2,333 (0 per cent).

Special non-degree: \$1,165 per course (0 per cent).

ACCESS update

B of G member Simon Cooper, chair of the external relations committee, gave the board an update on the ACCESS Fund, which at the time of the meeting had surpassed its original goal of \$3.1 million in unmatched funds by more than \$3 million. A final tally will be available in a week's time.

Chancellor Lincoln Alexander, chair of the ACCESS Fund advisory committee, thanked John Mabley, vice-president (develop-

ment and public affairs), his staff and more than 100 volunteers for their efforts in "a real success story." Dodds also commended the results as "great work."

Presidential review

Dodds announced the membership of the presidential review committee (see story on page 3) and said the committee will meet soon to establish a timetable for meetings to solicit comments from the University. In response to a query from Wood, Dodds said the review process will be open and will provide opportunity for community input.

Faculty policies changed

The board approved amendments to faculty policies on study/research leave, transition leave and part-time appointments. Provost Iain Campbell explained that college promotion and tenure committees will now have the option of referring department-level decisions to grant leave back for reconsideration. This will improve accountability and ensure there are consistent standards in each college for the granting of leave, he said.

Academic administrators seeking a transition leave will now have to apply to their immediate supervisor, provide a plan and, after the leave, submit a report. These requirements are now consistent with those for regular faculty applying for research/study leave and will help ensure that transition leaves are used constructively, said Campbell.

As a result of these changes, the faculty policy on part-time appointments is now reconciled with the Special Plan Agreement. Part-time appointments of less than one year are covered by the CUPE 3913 collective agreement. Initial contractually limited part-time appointments may be from one to three years and may be renewed.

They're the champs

Hockey coach Marlin Muylaert and Chris Clancy, captain of the men's Gryphons hockey team, which last month became the first U of G hockey team to ever win a national title, showed off their CIAU trophy at the B of G meeting to hearty applause. □

Four named to board

John Lahey of Burlington, senior vice-president, Ontario southwest region, Canadian Imperial Bank of Commerce, has joined Board of Governors for a three-year term. He is also a member of the pensions and benefits committee.

Lahey is responsible for personal and small-business banking in southwestern Ontario, overseeing 3,500 employees and more than 200 branch locations. He is CIBC's former senior vice-president, human resources.

Lahey received his BAA from Ryerson Polytechnic University in 1976 and an MBA from York University in 1986.

Ken Bedasse has been reinstated as chair of the pensions and benefits committee, effective June 30.

Three elected students were appointed to B of G to serve one-year terms that begin July 1 — graduate student Christoph Wand of Powassan and undergraduates Colin Dawes of Mississauga and Nathan White of Bothwell.



John Lahey

Wand, a B.Sc. graduate of CBS, is enrolled in an M.Sc. program with the Department of Animal and Poultry Science, where he is specializing in ruminant nutrition. He is an offensive lineman with the Gryphons football team.

Dawes is a third-year student in biological science. He is involved in Interhall Council, college government and intramural sports, volunteers at two hospitals and umpires for the Clarkson Lorne Park Baseball Association.

White is a third-year B.Comm. student in housing and real estate management. Involved in several student organizations, he has participated in the London business semester at the London School of Economics in England. □

Tenure, promotion changes announced

Board of Governors received the following changes in tenure and promotion. Tenure is effective immediately; promotion is effective July 1.

College of Social Science

Assistant to associate: Richard Kuhn, Geography. Associate to professor: Mary Ann Evans and Kevin Kelloway, Psychology.

Tenure: Belinda Leach, Sociology and Anthropology; and Theresa Lee, Political Studies.

College of Biological Science

Assistant to associate: Jim Kirkland and Kelly Meckling-Gill, Human Biology and Nutritional Sciences; and Patricia Wright, Zoology.

Associate to professor: Glen Van Der Kraak, Zoology; and Reggie Lo, Microbiology.

CPES

Assistant to associate: Doug Joy, Warren Stiver and Richard Zytner, School of Engineering; and Fei Song, Computing and Information Science.

Associate to professor: Brian Allen, Mathematics and Statistics.

OVC

Assistant to associate: Jonathan LaMarre, Biomedical Sciences; and Howard Dobson, Clinical Studies.

Tenure: Jonathan LaMarre and Ann Hahnel, Biomedical Sciences; Azad Kaushik, Pathobiology;

and Charlotte Keller, Clinical Studies.

FACS

Assistant to associate: Vinay Kanetkar, Consumer Studies; Julia Christensen Hughes, HAFSA; and Judy Sheeshka and Jean Turner, Family Studies.

Associate to professor: Bruce Ryan, Family Studies. Tenure: Vinay Kanetkar, Consumer Studies.

College of Arts

Assistant to associate: Susan Brown and Tim Struthers, English; and Linda Mahood, History. Tenure: Peter Goddard and Linda Mahood, History; Jean Harvey and Jay Lampert, Philosophy; Donna Penne, English; Howard Spring, Music; and Judith Thompson, Drama.

OAC

Assistant to associate: Robert Lencki and Alejandro Marangoni, Food Science. Associate to professor: Shai Barbut, Food Science; Michael Brookfield, Land Resource Science; Ellen Goddard, Agricultural Economics and Business; Andrew Gordon, Environmental Biology; and Jim Squires, Animal and Poultry Science.

Tenure: Kimberly Rollins, Agricultural Economics and Business; and Kees de Lange and John Gibson, Animal and Poultry Science. □

Mabley reflects on first year as vice-president

John Mabley joined the University of Guelph as vice-president (development and public affairs) in January 1996. In this article, At Guelph asks Mabley to reflect on his first year and share his plans for future advancement activities.

Q: John, can you pinpoint the highlights of your first year at Guelph?

A: The past months have been filled with both challenges and successes. I feel privileged to be back at my alma mater and very hopeful that — with the help of many others — I will make a contribution to maintaining and strengthening a vigorous external relations program at the University of Guelph.

We have already seen some early and positive signs of progress. Annual fund-raising results for the calendar year 1996 are up 37 per cent over the previous year (see chart below). Our advancement team received gifts (excluding gifts-in-kind) of \$6.4 million last year. It goes without saying that I am very pleased with these encouraging results, but I am also pleased to report that this

growth was achieved at lower administrative costs than in the preceding year.

ACCESS cash gifts received in 1996 helped boost fund-raising revenue last year. Chancellor Lincoln Alexander chaired the ACCESS fund-raising drive, and under his leadership, unmatched pledges and gifts to ACCESS have exceeded \$7 million. When this is matched over the next three years, U of G's student aid endowment will grow by more than \$14 million — a 40-per-cent increase, raising our student aid endowment from \$35 million to about \$50 million.

Q: How were you able to achieve these impressive results?

A: I think there are three main reasons — focus, teamwork and organization.

The number one reason why people give to an institution is because they believe in its mission. Successful fund-raising programs must be based on a clearly communicated and focused vision of the institution. By providing Guelph with a strategic purpose and vision for the future through the *Making Change*



VP John Mabley credits U of G's fund-raising success to focus, teamwork and organization. Members of his team include, front row from left, Paulette Samson, director of alumni affairs and development; Bruce Hill, associate director for campaign programs; and Darlene Frampton, director of communications and public affairs. At back are Mabley, chancellor Lincoln Alexander and Simon Cooper, chair of the external relations committee of Board of Governors.

Photo - Margaret Boyd

document, the University has helped to ensure our success. I have been grateful time and time again for the existence of this plan and for President Mordechai Rozanski's enthusiasm, support and active participation in our external relations initiatives.

The clearest evidence of teamwork is how hard the staff of Development and Public Affairs have worked over the past year and how hard they are continuing to work. I think our volunteers and donors have been motivated by the obvious commitment and dedication of the staff.

I also attribute our success to another aspect of teamwork in the unit — how staff in Alumni Affairs, Communications and Development are working together to achieve a more integrated approach to all our advancement programs.

And finally, a comment on organization. I mentioned earlier that we had achieved success in increasing our fund-raising totals while lowering administrative costs. In fact, we reduced administrative costs by more than eight per cent. Along with all other areas of the University, Development and Public Affairs has experienced a reduction in its

operating budget. I was extremely fortunate that within the first few months of my appointment, I had the recommendations of a review conducted by Prof. Ken Grant, director of institutional analysis and planning, to guide me on restructuring the unit. The recommendations of the Grant report have been invaluable in helping us achieve our goals with limited staff resources.

Q: In the wake of the ACCESS drive, where will you now focus the University's advancement activities?

A: The Alma Mater Fund has been a fund-raising cornerstone at this university for many years. Driven by volunteer alumni leaders, the AMF was chaired last year by OVC graduate David McEwen and is chaired this year by OAC graduate Larry Argue. As an aside, you may be interested in knowing that the 1969 founding chair, Gordon Nixon, is still an active member of the Alma Mater Fund Advisory Council. We are delighted that the council is supporting our academic mission by designating multimedia computer labs as the flagship project.

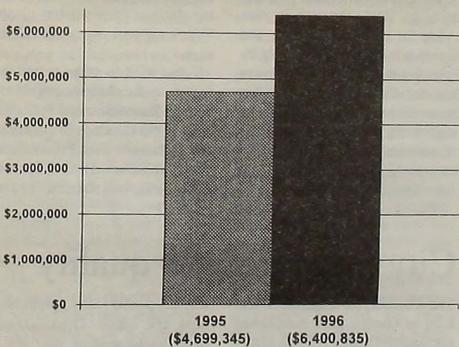
The AMF is vital to the University's fund-raising future. I can't

think of any university that has ever enjoyed long-term growth in alumni involvement and giving without a well-planned and carefully implemented annual giving program. During the past year, we concentrated on the ACCESS program because we had a 10-month window of opportunity to maximize matching funding. We realize that we must work hard in 1997 to convey the important case for annual giving. This is where we will concentrate our immediate efforts.

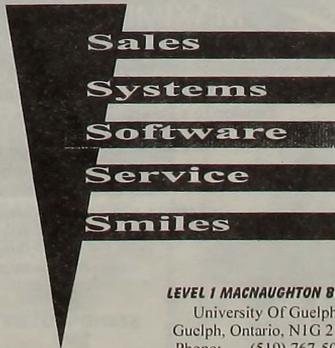
Q: Where is all this activity heading?

A: I participated in a meeting with academic deans last week convened by the Alma Mater Fund executive. One of the deans said it so well: "We need to raise the fund-raising octaves here by at least three or four levels." Forgive me, but this was music to my ears. The deans realize what must be done, and it is up to us — the staff in Development and Public Affairs — to facilitate the process, to help make it happen with the benefit of our professional experience. I am confident that we can help lead the way and meet the challenge. □

University of Guelph Annual Cash Fund-Raising Results Two-Year Comparison Reported at March 31, 1997



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Family studies students get ready to face the world with simulated age-related disabilities. About 40 students participated in a "Through Other Eyes" workshop this semester. Photo - Lisa Lisle

Students see world 'through other eyes'

Experience teaches. And about 40 family studies students learned a lot this semester when they put on water wings, swim goggles, weights and earplugs to experience what a senior or someone with a disability would go through while completing their daily tasks.

The students were participating in "Through Other Eyes," a provincial program that enables participants to directly experience the daily challenges faced by seniors and people with disabilities. Wearing devices that simulate the limitations caused by aging or a disability, participants confront the physical and psychological barriers encountered by people with special needs as they try to use products and services.

Imagine the frustration of your legs feeling heavy and slow, the words you read being blurred, and conversations being muffled by background noise.

The weights the students wore simulated the loss of range of motion, acuity and activity, and the water wings simulated the effects of arthritis. Goggles were altered with spots and black tape to simulate cataracts, degeneration and tunnel vision. Earplugs simulated broad-spectrum hearing loss. Gloves diminished sensitivity to

texture, temperature and pressure.

The students were then given a task list and had 45 minutes to complete as many tasks as they could. These included simple things that most people take for granted, like putting a dime in the photocopier and making a copy of the task list, reading the headline of a newspaper, reading the specials on the menu in a cafeteria, using the washroom and picking up groceries.

In a discussion after their attempts to complete their tasks, most students agreed that impaired vision was the biggest obstacle they had to overcome.

Prof. Anne Martin-Matthews, who teaches issues in social gerontology, attended a similar program at McMaster University two years ago.

"I wanted to see what it could teach me, someone who has been teaching and researching gerontology for 17 years," she says. "I found it to be quite an enlightening experience. And I thought the experience could lead my students to a better understanding of what they're learning."

According to the Ontario Ministry of Health, one in four Canadians will be a senior by 2010. Today, 17 per cent of Canadians

have a disability.

Through Other Eyes helps organizations of all kinds address fundamental challenges like how products can be designed to be easier to handle, how policies and programs can be developed that respond to the needs of seniors and people with disabilities, and how the physical environment can be better planned to ensure greater comfort and ease of access for seniors and people with disabilities.

The concept was developed by a team of geriatric specialists in 1987 and was expanded by the Ontario government to target a wider range of professions and industries. Today the program is administered by the Ontario Community Support Association in partnership with the Ministry of Health.

Over the last eight years, more than 700 workshops have been delivered to more than 14,500 participants. According to evaluations, 79 per cent of participants said the workshop was "excellent" and another 20 per cent said it was "very good" in sensitizing them and providing practical ideas for serving the needs of seniors and people with disabilities.

Martin-Matthews says she'd like to try this workshop with her students again because the benefit of experience isn't over yet. "We'll keep coming back to this in class. Almost everything the students learn in class comes back to this experience." □

Earth Week '97 activities explore food for future

A wide range of activities on and off campus will mark Earth Week April 19 to 27. This year's theme is "Food for the Future."

Organized by the Future Earth Research Organization, the week aims to explore the meaning of food in relation to health, family, culture and community and bring awareness of the importance of preserving and restoring the natural environment to the provision of healthy food.

On April 19, the Guelph Field Naturalists and Young Naturalists present nature activities for all ages from 10 a.m. to noon at the Guelph Lake Nature Centre. On April 20, "Food from the Forest" is the theme of an interpretive nature walk at the Arboretum that leaves from the nature centre at 2 p.m.

The Guelph Community Health Centre presents "Ojibwe Prayer of Healing Oneself and Healing the Earth" with Caroline Oliver April 21 at 7 p.m. at the centre, 89 Wyndham St. N. Monday also kicks off a week of in-school workshops for classes from junior kindergarten to Grade 12 and a week of displays, crafts, exhibits and information at the Willow West Mall. On display at the mall

will be a quilt designed by Jane Graff entitled "Cherish Our Earth for Tomorrow's Children." The quilt will be raffled off April 27. Tickets are \$1.

The Guelph Community Health Centre is also hosting a talk by Ian Hendry of Terra Nova Environmental Programs on "Food and the Environment: Rebuilding the Connection" April 22 at 7 p.m. and "Vegetarian Cooking: An Introductory Seminar and Taste-Testing Workshop" with dietitian Joy Walker April 23 at 7 p.m.

On April 24, the Guelph Field Naturalists present a talk and interpretive walk entitled "Sounds of the Night" at the Arboretum at 6:30 p.m.

The week wraps up April 27 with a benefit concert at 7:30 p.m. at Harcourt Memorial United Church, 87 Dean Ave. Featured performers are Guelph tenor Glyn Evans, Flutabec and "Today's Family" Choir. Tickets are \$4; proceeds will help support the Guelph Food Bank, From the Ground Up: The Guelph Food Action Network and Contact Place. Donations of dry or canned goods will also be welcome at the concert. For ticket information, call 824-8464. □

Campus to bloom in support

The Grounds Department wants to help the city of Guelph become a blooming success.

After winning the provincial "Communities in Bloom" competition in 1996, the city is now vying for the national title, and Grounds is doing its bit to help by initiating the planning of a flower bed for the corner of Gordon Street and Stone Road. The design of the bed is based on the "Communities in Bloom" emblem in the shape of a flower, says John Reinhart of Grounds.

"The size and success of the bed

depends on community involvement," says Reinhart, who urges members of the University to get involved by offering their time to the planting project or by donating plants or money to buy plants. "Your support is essential," he says.

If you wish to make a cash donation, make cheques payable to Guelph Recreation and Parks and send to the Grounds Department, c/o Reinhart. For information about volunteering to help with the project, call Reinhart at Ext. 2053. □

City awards honor quality

The Chamber of Commerce and City of Guelph have established the Guelph Quality Awards to recognize outstanding contributions to the improvement of quality.

Awards will be made in five categories — manufacturing,

service, public sector, small business and retail. Organizations must be located in the city of Guelph or the surrounding townships of Wellington County; a department within an organization is eligible to apply. Deadline for entries is May 2. Cost to enter is \$100. Winners will be honored at a reception and dinner June 19 at the Guelph Civic Centre.

Information and application forms are available through the Chamber of Commerce at 822-8081 or the City of Guelph at 837-5600. The University's representative on the organizing committee is Prof. Anne Wilcock, Consumer Studies. □

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Public education focus of second universities-in-transition day

U of G marked its second universities-in-transition day March 25 with a faculty "teach-out" program, speakers and a panel discussion.

The day was designated for public education as part of an agreement between the U of G Faculty Association and the University, under which faculty agreed to three days without salary as part of the University's budget adjustments.

Fred Gorbet, former federal deputy minister of finance and a member of the Smith Commission, began the day's events by providing some insights on how the commission framed its 13 recommendations that shaped the 1996 *Report of the Advisory Panel on Future Directions for Postsecondary Education*.

"We concluded that the university system is very seriously underfunded," said Gorbet. The panel wrestled with what an appropriate level of funding would be, he said, but doesn't know what the right balance is.

"At the end of the day, we were struck by the comparisons of average funding available for students in Ontario compared with students in other provinces and students in the United States."

Ontario ranks 10th among the provinces, and average funding per student here is about 70 to 75 per cent of that available in the other jurisdictions the panel looked at.

Evidence mounting

Excellence starts with excellent faculty and facilities for learning, said Gorbet, but the panel heard that university infrastructure is deteriorating, there are problems equipping facilities, and universities are having trouble hiring and retaining the best faculty.

"The evidence is mounting that quality cannot be much longer sustained without additional resources," he said, "and funding is so far below anything we might choose to measure as a reasonable benchmark that it is fair to conclude that it should increase, even if we don't know what the right level is."

The panel also concluded that universities have been unsuccessful in competing for government funding. From 1978 to 1995, government support to universities per student, after adjusting for inflation, fell by 12 per cent.

Gorbet said the commission spent some time trying to understand why universities have not been more effective advocates, but did not reach any conclusions. The panel reasoned that:

- Universities require more resources than are currently available.



A talk by Fred Gorbet, centre, a member of the Smith Commission, kicked off U of G's second universities-in-transition day March 25. With him are president Mordechai Rozanski, left, and the day's organizer, retired professor Ted Swart.

- There is a case for greater government support.

- There will be no substantial increase in government funding in the short term.

- In the medium term, an improving fiscal situation has to be viewed in the light of a track record for universities in attracting government support that has been pretty dismal.

- Resources to maintain excellence will have to come from somewhere else. Universities will have to start looking after themselves, free from regulations that constrain their ability to make choices.

The panel framed a new policy framework based on fee deregulation, greatly enhanced student assistance and stronger and more effective governance.

Gorbet said that deregulation of fees is important to bring additional resources into the sector by discontinuing subsidies to those who can afford to finance their own education and to give universities the ability to make decisions about what they want to offer and how they want to offer it in ways that can provide better value to students.

Student assistance needs to be increased, concluded the panel, which recommended enhanced tax assistance, an income-contingent loan program and greater institutional funding by recycling a portion of higher fees to student assistance. Gorbet said he strongly supports a government direction to allocate new resources to assistance rather than to the operating formula.

Universities' governing board members should not be micro-managers, he said, but they should be more than cheerleaders and fund raisers. They need to participate in and approve strategic plans and review and approve fee decisions. They also need to ensure that teaching and research are rewarded and that internal processes are in place to hold the institution's leadership accountable for results in these areas, he said.

Gorbet said he believes the Smith panel's framework will be implemented within the next few

years. He doesn't see any other option that is palatable.

"The status quo will continue to see quality erode and tensions within the university community escalate because there is not enough money in the system to support the infrastructure that we have built."

There are two choices, said Gorbet. The government can rationalize the postsecondary education system along the same lines as hospitals or free universities up to restructure in a way that reflects their comparative advantages and their willingness and ability to partner.

Gorbet defined seven main factors that will determine whether a university will be successful in the new framework the commission foresees. He offered his personal policy framework for a university:

- a well-developed vision of where it wants to go;
- a strong academic foundation;
- a strong financial position;
- an ability to innovate and manage within the institution;
- an ability to partner with others;
- an effective information and communication program; and
- a strong governance system.

Universities will have to recognize where their comparative strengths are, leverage them and partner with others where they cannot achieve excellence themselves, said Gorbet. It will also be important to develop strategic plans linked to academic and financial plans. A strong academic foundation is essential to support the overall strategy, as is strong financial management and fund raising, he said.

The ability to innovate and manage change may be the most difficult of all as universities learn to partner with others, including each other, said Gorbet. Universities have not done a good job of

explaining themselves to the public, he said.

He ventured that it will be extremely difficult for many institutions to achieve a strong governance system, especially in places where boards currently see themselves as constituency representatives with no real decision-making power.

In the discussion that followed Gorbet's talk, president Mordechai Rozanski said universities appreciate the role the Smith Commission has played in bringing the issues of underfunding and accessibility to the public and Queen's Park. He added, however, that the decision makers are not yet convinced of the need to increase support.

Tim Sauer of the U of G Library noted the need to communicate with the public. He called for mission statements and strategic plans that are in a language the public can understand.

In response to a question from Prof. Ken Grant, director of institutional analysis, Gorbet said the panel found no evidence either way that higher tuition fees will limit student accessibility, but "if you raise fees, some will suffer."

Prof. Brian Calvert, Philosophy, said anecdotal evidence suggests that students are opting for three-year programs because they can't afford the fourth year. He noted that members of the public perceive that U of G is "doing all right financially," but they don't know that Guelph lost six top researchers this year, that buildings are deteriorating and that class sizes are getting larger. He asked if U of G staff are being candid when they go out into the high schools recruiting.

Provost Iain Campbell replied that the University is being truthful with students, parents and guidance counsellors. Added Rozanski: "If we don't tell them, we will lose them."

The president said he has met with alumni, corporate leaders and public officials and given a frank assessment of the threats to quality education.

"And I am getting the kind of responses we want to hear, such as: 'What can we do to help?' and 'How can we contribute?'"

Another highlight of the universities-in-transition day was a teach-out involving 17 faculty and librarians who volunteered to participate in a school outreach program at 11 Wellington County high schools and speak to classes on a variety of subjects.

In the afternoon, Ontario Institute for Studies in Education sociologist Dorothy Smith spoke to a full house of faculty and students at a Guelph Centre for Cultural Studies colloquium on universities and the struggle for a democratic society.

Role of public relations

In the evening, a panel discussion focused on the role of public relations in the well-being of universities. Panel members discussed the importance of conveying to the public the value of universities to society and the negative effects of government disinvestment in postsecondary education. The panel said there should also be increased emphasis on government relations.

Panel members stressed the importance of internal communications as a way to engage faculty in the public relations process. They agreed that faculty have a valuable role to play in communicating the impact of their research and teaching.

The panel decided to strike a working group to look at issues related to internal and external communications at U of G.

Chaired by Darlene Frampton, director of communications and public affairs, the panel consisted of John Mabley, vice-president (development and public affairs); John Dickie of Monsanto Canada; Prof. Sid Gilbert, Sociology and Anthropology; Barbara Abercrombie of the President's Office; Prof. John Roff, Zoology; Ed Cassavoy, managing editor of the *Guelph Mercury*; public relations consultant Sandy Miller; and retired professor Ted Swart, Computing and Information Science. □

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First to the finish with preservation technique

by Jenny Tye
Office of Research

Guelph's Animal Biotechnology Embryo Laboratory (ABEL) has developed a new lab technique with significant implications for studying human disease and pharmaceutical development.

PhD student Nucharin Songsasen and Prof. Stanley Leibo, Biomedical Sciences, have developed the only known simple and reliable method to freeze mouse sperm. This has been an international imperative for researchers studying transgenic mice.

"Transgenic mice are mice that carry foreign genes on their chromosomes," says Leibo. "They are extremely important in the study of diseases and in developing new pharmaceuticals."

Working independently, the Guelph researchers are the first in North America to have derived a successful freezing method. Their research was recently published in the journal *Biology of Reproduction*.

Over the last 10 years, scientists have generated thousands of different transgenic mice whose physical characteristics model important human and animal diseases. Researchers worldwide use these mice to study diseases such as diabetes, obesity, cancer and muscular dystrophy.

But the number of new transgenic strains developed is overwhelming mouse-breeding facilities, a problem easily overcome with cryotechnology.

Freezing gametes (eggs and sperm) would enable these facilities to "bank" the genetics of new strains of mice in an efficient and cost-effective way.

Until now, researchers have only been able to cryopreserve mouse oocytes (eggs), a time-consuming and expensive method. Superovulation, the process in which an animal is hormonally stimulated to release extra eggs, is difficult and costly in mice. In addition, scientists can only get about 30 oocytes from a mouse, whereas just two sperm samples could fertilize thousands of oocytes.

For reasons not fully understood, however, mouse spermatozoa is difficult to freeze reliably. This difficulty may arise from the cells' peculiar long hook shape and highly sensitive membranes.

After two years of research trials using different freezing media and various cooling rates, Songsasen identified an effective and reproducible freezing protocol. Among her important findings is that sperm from different strains of mice have different freezing sensitivities. This has important implications for the cryopreservation of both bull and human sperm, too.

"For some unknown reason, sperm from different mice may be sensitive or tolerant to freezing," says Songsasen. "This discovery is useful because we can now compare the membrane characteristics of sensitive and tolerant sperm to determine the cause of these freezing differences. Once we know what characteristics impede cryopreservation of these cells, further improvements can be made for the cryopreservation of sperm in the mouse, bull and the human."

This research was sponsored by the Natural Sciences and Engineering Research Council. □



Veterinarian Karol Mathews, director of the ICU at OVC's Veterinary Teaching Hospital, was inspired to create a manual on emergency and critical care by her experiences as an intern. Photo - Margaret Boyd

Vet manual offers practical info on emergency and critical care

by Margaret Boyd

U of G veterinarian Karol Mathews remembers being a tired intern and trying, with difficulty, to calculate an animal's drug dosage at 3 a.m. Years later, the experience helped inspire the *Veterinary Emergency and Critical Care Manual*, now in use by veterinary clinics across North America.

"I started the manual initially to help fourth-year students, interns, residents — and me — as a quick reference during busy times and late nights," says Mathews, who is director of the intensive-care unit (ICU) at OVC's Veterinary Teaching Hospital.

The manual was recently published by Lifelearn Inc.; a multimedia CD-ROM version, to include videos of various

procedures, is planned for release next year.

Charles Povey, director of Lifelearn, predicts the manual will become a standard text for veterinary medicine. It has already been recommended as a text in several U.S. veterinary schools.

"Emergency cases need to be handled well, methodically and quickly," says Povey. "This manual provides practical and broad information about veterinary emergency and critical care."

The manual evolved from protocols for emergency and critical care designed to help interns and residents, and is also used by senior OVC students as guidance for clinical duty in the ICU. All the procedures and treatments described in the manual have been recommended on the basis of the

experiences of Mathews and her colleagues. Each emergency situation is covered in easy-to-follow point form, with a brief introduction, logical step-by-step approach to clinical signs/physical examination, patient evaluation and treatments, a synopsis of the relevant pharmacology of the recommended drugs and further suggested readings. A ruled margin at the side is designed for the user to add notes.

The manual also contains realistic alternatives for diagnosis and treatment for clinics with limited facilities, equipment and drug availability. Extensive referral charts are designed for easy use under time pressures.

"Confidence and know-how are important aspects of managing emergency and critical care cases," says Mathews. "The purpose of this manual is to give users the know-how, and with that will come the confidence."

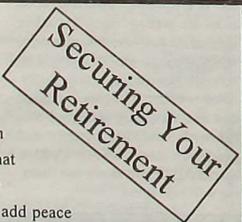
In addition to Mathews, the manual contains contributions from several members of OVC — clinical studies professors Tony Abrams-Ogg, Doris Dyson, Craig Miller, Joane Parent and Wendy Parker and Helen Scott of the Veterinary Teaching Hospital.

In the future, protocols for emergencies in toxicology, pediatrics and gynecology will be added to the manual, and chapters will be updated. As Mathews notes, emergency and critical care is "a constantly changing field of medicine." □

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Landscape architects have designs on the city

Students from the School of Landscape Architecture have established a storefront office in the Eaton Centre to exhibit their designs for revitalizing downtown Guelph.

The exhibit runs April 11 to 19 on the second level near the entry stair. Four design studios led by Lise Burcher, Larry Harder and Prof. Maurice Nelischer and Jim Taylor are represented.

On April 12 and 13, graduating

BLA and MLA students will display their final thesis projects at Fashion Fine Arts Gallery, 128 Wyndham St. N. This will provide an opportunity for city residents to view and comment on a wide variety of student work, much of it related to local issues of urban and community design.

Gallery hours are 10 a.m. to 6 p.m. Saturday and 1 to 4 p.m. Sunday. □



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NOTICES

Dairy scientists to meet

U of G will host the 1997 annual meeting of the American Dairy Science Association June 22 to 25. About 1,800 people are expected to attend the conference, which will include a dairy production division and a dairy foods division. Co-chairs are Prof. John Walton, Animal and Poultry Science, and Art Hill, Food Science.

Faculty forum

Teaching Support Services is sponsoring a faculty forum to discuss the *Report of the American Association of Higher Education* April 18 from 12:30 to 2:30 p.m. in Room 125 of Day Hall. Forum leaders are FACS dean Michael Nightingale; Prof. Kerry Daly, Family Studies; Prof. Karen Finlay, Consumer Studies; and Prof. Julia Christensen Hughes, H.A.F.A. For more details, check out the Web site <http://www.tss.uoguelph.ca/st.html>.

Trent project

Chris Metcalfe of Trent University will be on campus April 14 to discuss Trent's Tier 1 project on watershed management in Mexico and Ecuador and how U of G faculty can get involved. Organized by the Centre for International Programs, the information session begins at 11:30 a.m. in the Whippletree.

Trio to perform

The Catherine Wilson Trio, a unique chamber group featuring renowned pianist and composer Catherine Wilson, violinist Joseph Peleg and cellist Andras Weber, will perform April 19 at 8 p.m. at Chalmers Church. The program will range from classical to ragtime. Tickets are \$15 and \$12 and are available at the door, the UC box office or at Ext. 6580.

Deadline nears

The deadline to submit nominations to Senate for the John Bell Award for outstanding contributions to university education is April 26. The award is open to all current U of G faculty who have made outstanding contributions in course and curriculum design and have shown educational leadership and/or for whom there exists substantial evidence of contributions to the development of materials, procedures and ideas related to university education.

Investment fund

Peter Morand, president of the Canadian Science and Technology Growth Fund (CSTGF), will lead an information session April 14 from 9 to 11 a.m. in Room 1713 of the OVC Learning Centre. CSTGF is a new venture capital investment fund that has co-operation agreements with the Natural Sciences and Engineering Research Council, National Research Council and Canadian Space Agency. Morand will dis-

cuss the fund's goals, procedures for submitting commercialization proposals and review process.

Bowl for literacy

Action Read, Guelph's community literacy centre for adults and their families, is hosting "Bowling for Literacy" April 26 from 1 to 4 p.m. at Bowlerama Guelph. Bowlers can enter on their own or as part of a team. For a sponsor sheet, call 836-2759 or drop by 20 Fountain St., Suite 206.

Latest on the Web

Les Richards of Teaching Support Services will give an overview of Web '97 April 10 at 12:30 p.m. in Room 1715 of the OVC Learning Centre. He will demonstrate Jamba, a new drag-and-drop authoring program for creating multimedia Java applets, and Marimba's Castanet, the latest in push technology for the Web.

World music

Scenes from Antarctica, a world music opera written, directed and performed by fourth-year music and fine art student Jesse Stewart, runs April 10 to 12 at 8 p.m. at the Inner Stage. Tickets are \$5 at the door or \$4 with a food item for the Guelph Food Bank.

Schubert program

The Arkell Schoolhouse Gallery presents the Maple Trio — violin, cello and piano — performing a complete Schubert program April 19 at 8 p.m. Tickets are \$12. Call 763-7528 to reserve.

Spring fashion show

The Victorian Order of Nurses of Guelph, Wellington and Dufferin present a fund-raising fashion show April 22 at 7:30 p.m. at the Drayton Community Centre. A reception will follow. Admission is \$10. For ticket information, call Kristen Porritt at 822-5081.

At the art centre

Three new exhibitions open this month at the Macdonald Stewart Art Centre. An opening reception for "Wildness and the Scientific Method" by fine art sessional Reinhard Reitzenstein and "Pin Spots" by Dianne Bos is April 13 at 3 p.m. Before the reception, Reitzenstein and guests will mark the

opening with a concert at 2:30 p.m. On April 24 at 4 p.m., curator Greg Klages leads a tour of the exhibit "Our Common Enemy," a collection of Second World War posters. All three exhibits continue until July 27.

AIDS talk

The AIDS Committee of Guelph and Wellington County is sponsoring a slide presentation and discussion of "Sex, Lies and HIV/AIDS" with U of G sociologist Linda Hunter April 10 at 7 p.m. at Chalmers United Church.

Suzuki open house

The Suzuki String School of Guelph is holding an open house to demonstrate individual and group lessons in violin, viola and cello. Group lessons will be demonstrated April 12 from 9 to 11 a.m. on the second floor of the MacKinnon Building. Individual lessons can be observed April 17 from 5 to 7 p.m. at the Reorganized Church of Jesus Christ of the Latter Day Saints, 8 Mitchell St.

GSF needs you

The Guelph Spring Festival is looking for volunteers for a variety of tasks throughout the festival. For more information, call 821-3210. The festival is also accepting applications for entertainers of all ages to perform live at Streetfest May 24 in downtown Guelph. Anyone interested in volunteering to participate in this day-long family event can call Paul Young at 836-7750.

Volunteers needed

The AIDS Committee of Guelph and Wellington County needs more than 100 volunteers to help with its first Bike-AID June 22. For more information, call Robb Abercrombie at 763-2255, Ext. 31.

Dream auction

The Elora Festival is holding a dream auction April 19 at the Elora Curling Club. Items up for bid include a Mediterranean Cruise donated by Uniglobe Accura Travel, weekend travel packages, antiques, art, a guest appearance on the TV show *PSI Factor* and original doodles by Canadian performers such as

Bruce Cockburn and Karen Kain. Tickets are \$30. Call 846-0331.

Children's theatre

The Centre Wellington Children's Drama Club presents *Canada Under Construction* April 19 at the Theatre on the Grand in Fergus. Performances are at 2 and 7 p.m. Tickets are \$6 and \$4. For more information, call 787-1981.

Writing workshops

The Legion School of Writers is offering two creative-writing workshops Tuesday nights from 7 to 9 p.m. for six weeks, beginning April 29 on campus. Themes of the workshops are "Creative Non-Fiction: Writing with Clarity and Style" and "Fiction and Poetry: Unlocking the Creative Process." Cost is \$160 if paid by April 21. For more details, call Sheila O'Hearn at 843-6471.

Garage sale

The Guelph Spring Festival is looking for donations of items for its annual gigantic garage sale April 20. Deadline for pickup is April 18. Call 821-7570 weekdays from 10 a.m. to 6 p.m. or 824-4117 or 824-9927 evenings and weekends. The sale runs from noon to 3 p.m. at the Guelph Farmers' Market. Admission is \$1.

Y service club

The YMCA-YWCA of Guelph is launching a service club to assist the work of the Guelph Y and be affiliated with other Y service clubs in 65 countries around the world. For more information, call Martin Dand at 856-1250 or send e-mail to marty@sentex.net.

Writing award

Material History Review, a Canadian journal devoted to documenting cultural artifacts, offers a writing award to recognize the contribution of a student essay to the study of material history and culture. The competition is open to any senior undergraduate or graduate student in a Canadian university. Papers should be no longer than 5,000 words. The

deadline for submissions is May 3 to the Chair of the Review Committee, *Material History Review* Writing Award, c/o North Vancouver Museum and Archives, 209 West 4th St., North Vancouver, B.C. V7M 1H8, fax: 604-987-5609.

Shrimp buffet

The University Club is hosting a shrimp and mussel buffet April 11 starting at 5 p.m. Tickets are \$12 and are available at Ext. 8578 or 3350. Club members may bring non-members.

Top teachers sought

Nominations are being sought for the 1997 3M Teaching Fellowships. The awards are presented each year to up to 10 faculty from Canadian universities for excellence in teaching and commitment to the improvement of university teaching. Nomination deadline is May 16. For an application form, call Helen Martin in Teaching Support Services at Ext. 3106 or send e-mail to hmartin@tss.uoguelph.ca.

School raffle

St. John's Kilmarnock School and Thomasfield Homes Limited are holding a raffle to raise funds for the school's scholarship and bursary fund. Prizes include a children's playhouse, a Victorian replica dollhouse, an electronic pocket organizer, riding lessons, a rocking chair and a birdhouse. The draw will be held June 21. Tickets are \$4 each or three for \$10. For more information, call Kathleen Kwan at Ext. 8633.

In the garden

The volunteers of the Macdonald Stewart Art Centre will host their fifth annual self-guided tour of five Guelph gardens and the Donald Forster Sculpture park June 22 from noon to 5 p.m. Tickets for Gardenscapes '97 are \$7 for adults, \$3 for children, and are available at the art centre, Royal City Nursery, Coach House Florist and Gifts and the Framing and Art Centre. □

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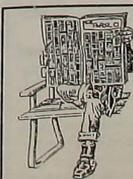
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Community

GRAD NEWS

The final examination of **Xue Pei**, an MLA candidate in the School of Landscape Architecture, is April 10 at 10 a.m. in Room 203 of the Landscape Architecture Building. The thesis is "Understanding Group Differences in Assessment of Landscape Architecture: An Examination of Gender and Age Factors." The adviser is Prof. Cecelia Paine.

The final examination of **Alex Law**, an MLA candidate in the School of Landscape Architecture, is April 14 at 2 p.m. in Room 125 of the Landscape Architecture Building. The thesis is "Landscape Features Affecting the Enjoyment of Rural Roads." The adviser is Prof. Cecelia Paine.

The final oral examination of M.Sc. candidate **Bonnie Rozanski**, Department of Computing and Information Science, is April 17 at 10 a.m. in Room 212 of the Reynolds Building. The thesis is "A Biologically Inspired Control System for Autonomous Robot Navigation." The adviser is Prof. Deborah Stacey.

The final examination of M.Sc. candidate **John Derksen**, Pathology, is April 18. The seminar is at 9 a.m. in Room 2152 of Pathology, followed by the defence in Room 1106. The thesis is

"Effects of Dissolved Oxygen and Hydrogen Peroxide on Particle Clearance in Gills of Rainbow Trout *Oncorhynchus mykiss*." The adviser is Prof. Hugh Ferguson.

The final examination of **Daryl Howard**, an M.Sc. candidate in the Department of Chemistry and Biochemistry, is April 18 at 9:30 a.m. in Room 222 of the MacNaughton Building. The thesis is "A Local Mode Spectroscopic Probe of Some Large Organic Molecules." The adviser is Prof. Bryan Henry.

The final oral examination of M.Sc. candidate **Jonathan Swallo**, Department of Computing and Information Science, is April 18 at 10 a.m. in Room 212 of the Reynolds Building. The thesis is "Instrumentation Data for Usability Analysis: A Case Study." The adviser is Prof. Tom Carey.

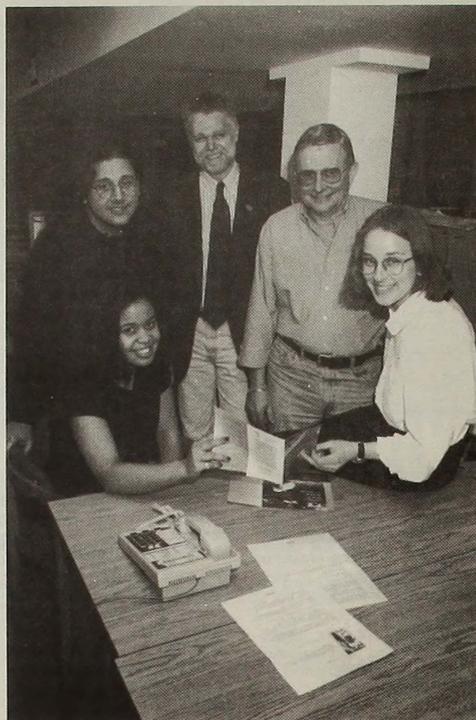
The final examination of **Susan Bauld**, a master's candidate in the Department of Family Studies, is April 22 at 9 a.m. in Room 105 of the Family and Consumer Studies Building. The thesis is "Family Characteristics, Parental Involvement and Child Development in a Community-Based Prevention Project." The adviser is Prof. Kathy Brophy.

The final oral examination of **Wendy Sword**, a PhD candidate in the Department of Family Studies, is April 23 at 9 a.m. in Room 105 of the FACS Building. The thesis is "Enabling Prenatal Care and Support for Women of Low Income: Rethinking Programs and Policies." Her adviser is Prof. Kathy Brophy.

The final examination of PhD candidate **Déric Rousseau**, Food Science, is April 29 at 1 p.m. in Room 1714 of the OVC Learning Centre. The thesis is "Modification of the Compositional, Physical and Rheological Properties of Butterfat/Canola Oil Blends by Chemical and Enzymatic Interesterification." The adviser is Prof. Alejandro Marangoni.

The final examination of **Parichat Hongsprabhas**, a PhD candidate in the Department of Food Science, is May 5 at 9 a.m. in Room 002 of the Animal Science and Nutrition Building. The thesis is "Mechanisms of Calcium-Induced Cold Gelation of Whey Protein Isolate." The adviser is Prof. Shai Barbut.

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



It's their calling. The annual Parents' Program telephone campaign got under way last week at Alumni House, and in the first evening, student callers received pledges of \$6,300 from last year's donors to the library. Pictured at the pizza-party launch are, from left, student callers Peter Komady and Jiselle Griffith, chief librarian Mike Ridley, Parents' Program chair Hank Vander Pol and student Natalie Basaraba. Over the next few weeks, 60 student callers will be trying to top the 1996 total of \$127,192 pledged to the Parents' Program Library Fund.

Photo - Martin Schwalbe

CLASSIFIEDS

FOR SALE

1984 Chrysler LeBaron station wagon, needs oil pump, 80,000 kilometres on original motor; various sizes of electric baseboard heaters; "talking car"; EZ glider exercise machine, Bev, 836-7070 after 6 p.m.

1988 Toyota Tercel hatchback, red, five-speed, 205,000 kilometres, 766-0021 evenings or weekends.

Princeville bedroom set, four-piece solid wood, includes dresser with mirror, two night tables and headboard, 837-9520.

Royal Doulton figurines; Royal Doulton "Demure" china, eight-piece setting and serving pieces; English washer and dryer; bookcase; limited edition prints; 824-9126.

Three-bedroom, 1 1/2-storey home, centrally located in old University area, original hardwood floors and wood trim, updated electrical, plumbing, high-efficiency gas furnace, spacious attic master bedroom, income potential from two bedrooms in finished basement, Ext. 6467 or 763-8273.

1977 Dodge Delta Custom 440 motorhome, sleeps six, CB radio, AM/FM cassette, excellent condition, 821-9227.

FOR SALE

Le Clerc maple 45-inch counterbalance floor loom, bench and backstrap loom, six stainless steel dents, double set of stainless steel heddles, raddle, latchet, shuttles, book, many accessories, 855-4705 after 6 p.m.

Mahogany coffee and side tables; antique cherry side table with spool legs; small washstand; white youth desk; turntable; leather black chrome chair; metal storage trunk; framed art: Monet, Hockney, Matisse; pottery plant pots, Joan, 836-7743.

1991 Northlander Chalet trailer at campground in Clifford, Ont., furnished, air conditioning, deck, garden shed, sleeps four, 824-4198.

APC professional surge arrest with modem/fax protection; zip drive parallel interface and zip disks, 100 MB in 10 pack, still in wrap, 855-4705 after 6 p.m.

Miscellaneous shelves; high-quality Panasonic dot matrix printer; double bed; large dog kennel; filing cabinets; weight set and bench; set of dishes; house plants; older 12-speed road bicycle, Carey, 824-9366 or send e-mail to cbergman@uoguelph.ca.

AVAILABLE

Experienced gardener for landscaping, garden/property design, pruning, planting, general maintenance, reasonable rates, 787-1950.

Exchange three-bedroom home in residential area of San Jose, Costa Rica, for similar home in Toronto for two weeks in July, car and maid included, 416-224-1323.

Mother of two has openings for child care for June 25 to Sept. 3, prefer school-age children, 836-6215.

WANTED

House in country to rent for mature OVC resident with dog for 1997/98 school year, flexible, responsible, 613-382-4541.

One ticket for family member for FACS convocation, June 6 at 10 a.m., 416-234-5338 or send e-mail to ba721@freenet.toronto.on.ca.

Graduate requires accommodation for one year beginning in May or June, willing to provide security and maintenance services in addition to rent, 519-858-0102 or send e-mail to peterson@gtm.net.

Metal detector; tripod for camera, 824-5878.

WANTED

Person to share four-bedroom house with three friendly non-smoking females, fully equipped kitchen, parking, laundry, 15-minute walk to campus, May to May lease, \$225 a month, Jessica, Ext. 77080.

Guelph Ladies' Softball League looking for players, teams and coaches 19 years and older to play in Tuesday evening league, 822-0826 or 519-699-5678.

FOR RENT

Furnished three-bedroom apartment to sublet in downtown Montreal, quiet residential area, close to downtown and McGill, ideal for faculty on research leave with family, available May through July, 514-844-6796.

One-bedroom apartment, downtown location, non-smokers, \$575 a month inclusive, 837-8149.

Two rooms in shared house, pets welcome, \$325 a month inclusive, negotiable for summer, 824-6508.

Furnished one-bedroom apartment, 10-minute walk to campus, parking, suitable for quiet non-smoking female, \$400 a month inclusive, available Aug. 1, 821-3999.

FOR RENT

Large one-bedroom apartment to sublet, bright and clean, fully carpeted, indoor parking, laundry in building, whirlpool and sauna, \$650 a month negotiable, Suzanne, 823-2547.

Furnished three-bedroom basement apartment, 20-minute walk to campus, close to shopping, separate entrance, parking, laundry, available May 1, \$600 a month inclusive, Ext. 4018 or 836-6862 after 9 p.m.

Furnished one-bedroom apartment, bright, freshly painted, downtown, laundry, available from May to August, 821-4036 or send e-mail to balfano@uoguelph.ca.

Furnished three-bedroom house on quiet street, five-minute walk to downtown, ideal for visiting family or mature students, available September to December 1997, \$900 a month plus utilities, Pat, Ext. 2719, Doug, Ext. 4566, or 836-0277 after 6 p.m.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or e-mail lgraham@exec.admin.uoguelph.ca. For more information, call Ext. 6581.

CALENDAR

THURSDAY, April 10

Concert - Student soloists perform at 12:10 p.m. in MacKinnon 107.

Plant Biology Seminar - Susanne Kohalmi of the University of Western Ontario examines "Characterization of Protein-Protein Interactions in *Arabidopsis thaliana*" at 3:30 p.m. in Axelrod 117.

Panel Discussion - The Waterloo-Laurier-Guelph Centre for East European and Russian Studies presents John Roberts, former diplomat and minister with the Trudeau government, and McMaster University political scientist Howard Aster discussing "Can Democracy Be Exported? Report on Some Experiments in Ukraine" at 8 p.m. in UC 442.

Music - Music and fine art student Jesse Stewart presents *Scenes from Antarctica*, a world music opera, at 8 p.m. at the Inner Stage. It continues until April 12. Tickets are \$5 at the door, \$4 with a donation to the Food Bank.

FRIDAY, April 11

Biomedical Sciences Seminar - Graduate student Josee Guimond offers an "Assessment of Uterine Natural Killer Cell Functions from Studies of Transgenic and Mutant Mice" at 12:30 p.m. in OVC 1642.

SATURDAY, April 12

Theatre in the Trees - Weekend Comedy continues at 8 p.m. at the Arboretum. Doors open at 6 p.m., with a buffet at 6:30 p.m. Tickets are \$45. Call Ext. 4110.

SUNDAY, April 13

Macdonald Stewart Art Centre - Reinhard Reitzenstein, a sessional in the Department of Fine Art, marks the opening of his exhibition "Wildness and the Scientific Method" with a concert at 2:30 p.m. A reception to follow will also mark the opening of the exhibit "Pin Spots" by Dianne Bos. Both shows continue until July 27.

TUESDAY, April 15

Macdonald Stewart Art Centre - Artist Dianne Bos discusses her exhibit "Pin Spots" at noon.

WEDNESDAY, April 16

Biochemistry Seminar - "Nucleating Factors for Neuronal Microtubules" is the focus of graduate student Carla Shouldice at noon in MacNaughton 222.

Zoology Seminar - Justina Ray of the University of Toronto discusses "Resource Use Patterns Among Mammalian Carnivores in a Central African Rainforest" at 4:10 p.m. in Axelrod 265A.

THURSDAY, April 17

Meet the Researcher - Prof. Hank Davis, Psychology, considers "Human/Animal Bonding and Its Effect on Research" at 2 p.m. in Central Animal Facility 108.

Equine Research Seminar - Prof. Jeff Thomason, Biomedical Sciences, examines "The Biomechanics of the Horse's Hoof" at 4:30 p.m. in OVC 1713.

FRIDAY, April 18

Biomedical Sciences Seminar - "Growth of the Porcine Vasopressin/Oxytocin-Containing Nucleus: A Search for Neuronal Progenitor Cells" is the focus of graduate student Rick McCurdy at 12:30 p.m. in OVC 1642.

Faculty Forum - *The Report of the American Association of Higher Education* is up for discussion at 12:30 p.m. in Day Hall 125.

Economics Seminar - "Does Advertising Signal Product Quality? Evidence from the Market for Compact Disc Players" is the focus of Glenn MacDonald of the University of Rochester at 3:30 p.m. in MacKinnon 238.

SATURDAY, April 19

Theatre in the Trees - Weekend Comedy continues at 8 p.m. at the Arboretum. Doors open at 6 p.m., with a buffet at 6:30 p.m. Tickets are \$45. Call Ext. 4110.

THURSDAY, April 24

Macdonald Stewart Art Centre - Greg Klages leads a tour of the exhibition "Our Common Enemy," featuring more than 100 Second World War posters from U of G's collections, at 4 p.m. The show continues until July 27.

FRIDAY, April 25

Biomedical Sciences Seminar - Graduate student Janet Douglas considers "Functional Morphology of the Equine Hoof Wall and Lamellar Junction" at 12:30 p.m. in OVC 1642.

SATURDAY, April 26

Theatre in the Trees - Weekend Comedy continues at 8 p.m. at the Arboretum. Doors open at 6 p.m., with a buffet at 6:30 p.m. Tickets are \$45. Call Ext. 4110.

TUESDAY, April 29

TSS Workshop - Profs. Trevor Dickinson, Engineering, and Robert Brown, Landscape Architecture, discuss "Creative Problem Solving: How Our Individual Mindsets Enhance and Constrain Our Attempts to Solve Problems" at 11:30 a.m. in Day Hall 125. Register at Ext. 2973.

WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 11:30 a.m. in Room 533 of the University Centre.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

Muslim worship services run Fridays at 1 p.m. in UC 533.

The Open Door Church of non-denominational worship is offered Sundays at 7 p.m. at Harcourt United Church.

The Guelph Unitarian Fellowship at 122 Harris St. meets Sundays at 10:30 a.m. On April 13, "Aspects of Rituals in Daily Life" is the topic with facilitators Carol Matsui and Phillip Reid. On April 20, Rev. Lucy Reid discusses "Religious Intolerance." □

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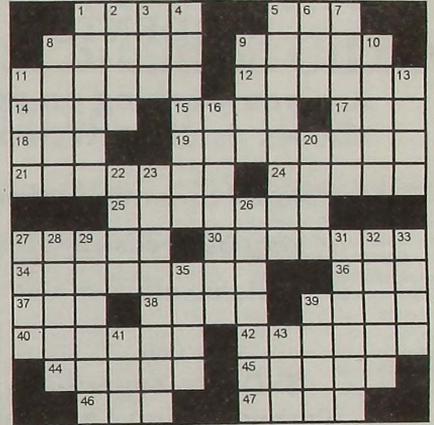
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| 5. Spider's trap | 3. Fruit drinks | 32. Regent of the sun in "Paradise Lost" |
| 8. Opposed to zenith | 4. Superman's planet | 33. Indochina Republic |
| 9. Underworld | 5. Fervid | 35. Roll call answer |
| 11. Get possession of | 6. Shakespeare's contraction | 39. Stone Age dwelling |
| 12. Wispy cloud | 7. Of the north | 41. Sticky stuff |
| 14. Gabor and namesakes | 8. "Pal Joey" actress | 43. Shelter from the wind |
| 15. Conspiracy | 9. Highlander | |
| 17. Compass dir. | 10. Sword thrust | |
| 18. Actor Mineo | 11. Irish luck | |
| 19. Guardianship | 13. Takes notice of | |
| 21. Clem | 16. Noonday meals | |
| kadiddlehopper | 20. Isolated | |
| 24. Perforations | 22. K-P connection | |
| 25. New Brunswick city | 23. Bread burners | |
| 27. Turkish province | 26. Dangling ornaments | |
| 30. Odious | 27. Moslem officers | |
| 34. Overshoes | 28. Krone spenders | |
| 36. Altar constellation | 29. Sigourney | |
| 37. Black cuckoo | | |
| 38. Hardy heroine | | |
| 39. History Muse | | |
| 40. "Where Have All the Flowers Gone?" composer | | |
| 42. Cheers up | | |
| 44. Saw wood | | |
| 45. Not sloping | | |
| 46. Call for help | | |
| 47. Prophet | | |

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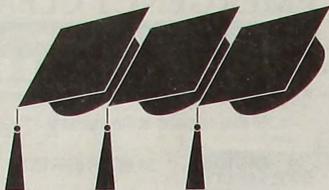
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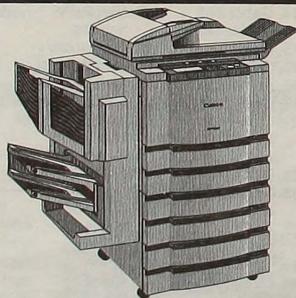
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