

@ GUELPH

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Hush, A Literary Career Is Born

Inspired by her mom, history student writes a children's book about the guiding strength of the mother-daughter bond

ATRIBUTE to a mother's love has become a book that families across North America can enjoy.

When U of G student Anna Strauss was in her last year of high school, she took a course that allowed her to focus on a single creative writing project. The result was *Hush*, a book that describes the guiding strength of the mother-daughter bond in the simple, rhythmic language of children's prose.

Strauss calls *Hush* "a raw, genuine story," inspired by her mother, Betty White Strauss. "I wrote the whole thing in about a week; it just came out."

Four years later, *Hush* is hot off the press at Toronto's Key Porter Books. In February, Key Porter will make 13,500 copies available to bookstores across Canada and 9,500 copies to booksellers in the United States. Planning is under way for a book launch in Strauss's Cabbagetown neighbourhood in Toronto and at U of G.

At a time when popular children's fiction seems to concentrate on "monsters, wizards and grand adventures," this book is for parents who "want something comforting to read to their children, something intimate to share with a child," says Imoinda Romain of Key Porter, who worked with Strauss on the project. "We're really happy to have a new young author under our wing."

The story, illustrated by Toronto artist Alice Priestley, is about a little girl called Sara who is comforted during life's growing pains by her



Anna Strauss's new children's book, *Hush*, will be in bookstores next month.

PHOTO BY DEAN PALMER

mother's soothing words and hugs. Sara grows up to have a little girl, Natalie, and the tradition of nurturing continues.

Sara is named for Strauss's maternal grandmother; Natalie is the name of her paternal grandmother.

"It's a tribute to the women of my family," Strauss says. "A huge part of my strength and confidence is because I've had a mother who's really been there for me. I feel really lucky."

Strauss approached Key Porter to

publish the book because they also publish work by her father, *Globe and Mail* science writer Stephen Strauss (the first recipient of U of G's Donner Foundation Fellowship).

She says that connection helped get Key Porter to look at the book, "but they chose it because they liked it."

For Strauss, the excitement of seeing her first book go into print has been accompanied by a lesson in the realities of the publishing business.

"I didn't write it to be published. It has been changed for mass production."

Some of those changes include the addition of a direct reference to Sara's marriage before the birth of Natalie and the replacement of Strauss's original artwork with Priestley's illustrations. The title of the U.S. version was also changed, to *Hush, Mama Loves You*.

"In the United States, they need something that grabs people's atten-

tion," Strauss explains. "I realize that with publishing, it's never fully you and so you compromise unless you self-publish. You accept that it's a business. That's reality."

And Strauss says she's happy with the result: "The editing process improved the story, and the illustrations are fantastic."

The book is dedicated to Strauss's parents ("I wouldn't have written it without my mom. I wouldn't be published without my dad's encouragement.") and to David Reed, the Jarvis Collegiate Institute high school teacher who taught the course that started it all.

"By allowing that sort of freedom in a classroom, he allowed me to create this," she says.

Now in her fourth year at Guelph, Strauss is majoring in history, with a minor in English. When she finishes her BA this summer, she plans to work on an organic farm in France for a year before deciding what's next.

Regardless of the path she chooses, she plans to keep writing short stories, poetry, songs and "hopefully, one day, a novel. Writing is one of the only things I have consistently worked on my entire life. It's really satisfying to write something that people can relate to, that touches them. Writing is such a different medium than speaking. Words, once said, memory changes them. Writing, it's there forever. It's part of what makes writing wonderful and scary."

BY STACEY CURRY GUNN

Memorial Service to Honour Former Chancellor

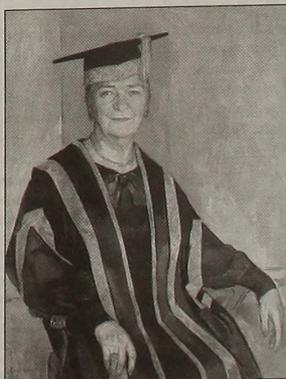
Pauline McGibbon was known for her ability to put people at ease and for the grace and charm she lent to campus events

AMEMORIAL SERVICE to remember the life and contributions of the late Hon. Pauline McGibbon, former Ontario lieutenant-governor and University of Guelph chancellor, will be held Jan. 31 at 4 p.m. at the Arboretum Centre.

Mrs. McGibbon died Dec. 14 in Toronto at age 91, following a lengthy illness. She was predeceased by her husband, Donald, in 1996 and leaves no family.

She served as lieutenant-governor from 1974 to 1980 and was U of G's chancellor from 1977 to 1983 — the first woman to hold either title. She also served as the first female chancellor of the University of Toronto.

In a joint statement, U of G chancellor Lincoln Alexander, himself a former Ontario lieutenant-governor, and president Mordechai Rozanski expressed their "deep regret to learn of the loss of this great Canadian. The Univer-



PORTRAIT BY BARBARA BRAUNOHLER

sity of Guelph and the Province of Ontario greatly benefited by Pauline McGibbon's contributions."

Mrs. McGibbon was known for her ability to put people at ease and for the grace and charm she lent to events during her regular visits to U of G. In 1980, as she began her second three-year term as chancellor, the U of G newspaper the *News Bulletin* reported: "... it has been in the fulfilling of her duties at convocation ceremonies that Guelph's First Lady has won the hearts of many. Her genuine interest in each graduating student is matched only by her ability to make each ceremony a special occasion."

In addition to presiding over convocation, Mrs. McGibbon attended many Board of Governors meetings, as well as the City of Guelph's 150th-anniversary celebrations, the inaugural banquet for the Association for Women at the

University of Guelph and College Royal.

She also developed a reputation at Guelph for dramatic entrances and exits. She rode to her 1977 installation in a horse-drawn carriage and, in 1979, made a spectacular departure from convocation in a helicopter.

"The exit provided an exciting end to convocation as an estimated 1,500 visitors and bachelor of agriculture graduates surrounded the helicopter to wave goodbye," the *News Bulletin* reported.

Mrs. McGibbon also served as a governor of Upper Canada College, president of the Canadian Conference of the Arts, chair of the board of trustees of the National Arts Centre, and director of George Weston Ltd. and IBM Canada.

She was appointed a Companion of the Order of Canada in 1980 and named to the Order of Ontario in 1988.

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gangel@alumni.uoguelph.ca Ext.6934



Birthday Gala Raises \$450,000 in Support of Chancellor's Scholarships

Tribute book planned as memento for Alexander, fundraiser for endowment



Members of the U of G community were among the more than 600 people who turned out at the Royal York Hotel Dec. 13 to help Lincoln Alexander, centre front, celebrate his 80th birthday and raise money for two U of G scholarships in his name.

PHOTO BY TOM SANDLER

A DEC. 13 GALA at Toronto's Royal York Hotel in celebration of chancellor Lincoln Alexander's 80th birthday — which also raised funds for new student scholarships at U of G in the chancellor's name — was one of the highlights of 2001 for the University, says president Mordechai Rozanski.

"It was a beautifully co-ordinated event," he says. "It combined serious moments that reflected on Lincoln's life and great contributions to Canada, with moments of humour, music and singing — the very things Lincoln enjoys."

More than 600 people — including prominent members of the political, business and academic sectors, members of the U of G community and students — attended the celebration, raising \$450,000 in support of two new Lincoln Alexander Chancellor's Scholarships. Among the University's most prestigious en-

trance awards, the scholarships will be worth \$20,000 each and will be paid over four years to two deserving students.

The awards are intended to enhance student diversity on campus, recognizing students of academic distinction who are aboriginal, persons with a disability or members of a visible minority and who have made significant contributions to their schools and communities and demonstrated the potential to become leaders in society. They will be offered for the first time in fall 2002.

Prof. Rob McLaughlin, vice-president (alumni affairs and development), says U of G now aims to endow the scholarships and, as such, hopes to raise another \$350,000 through the upcoming campus community campaign and through the production of a tribute book for the chancellor.

"The book — a handsomely pro-

duced memento for the chancellor — will contain tributes from friends, colleagues and admirers," he says. All members of the U of G community are invited — and encouraged — to participate in this treasured memento by adding their tributes."

Cost ranges from \$100 per line to \$2,000 for a half-page in the book, with all proceeds going to the Chancellor's Scholarships. The deadline for submissions is Feb. 28, and a tax receipt will be issued for the maximum allowable contribution to this project.

"This is our chance to show the chancellor how much we appreciate him while helping to support a cause that is very dear to his heart," McLaughlin says.

To place a tribute, call Ext. 6142 or send an e-mail to sharrop@alumni.uoguelph.ca.

BY SUZANNE SOTO

Correction

IN THE DEC. 12 ISSUE of @Guelph, the article "Canada Research Chairs to Two" incorrectly reported that U of G chairs had been awarded for seven years to Prof. Jonathon LaMarre, Biomedical Sciences, and for five years to Trent University history professor Douglas McCalla. The numbers should have been reversed.

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HEAD COACHES NAMED

The Department of Athletics recently named new head coaches for the football and baseball Gryphons. Tom Arnott, who joined U of G in February after an 11-year career at York University that saw him receive OUA Coach of the Year honours twice, is the new head football coach. A B.Sc.(H.K.) graduate of Guelph who played for the Gryphons from 1973 to 1977 and was named Wildman Trophy winner in 1976, he has been acting head coach since June. The new head baseball coach is Kirk McNabb, who has been an assistant coach for the past two seasons. A graduate of Mansfield University in Pennsylvania, he has a baseball background as a player, coach, instructor and director in Guelph and the northeastern United States.

CSA LAUNCHES WEB SITE

The Central Student Association (CSA) has launched a new interactive Web site at www.csa.uoguelph.ca. CSA communications commissioner Todd Schenk says the site is designed to give U of G students easy access to information about services, support and advocacy and to enable them to connect to CSA clubs, provide feedback and interact with each other. "This site is not merely a profile of the organization or a directory of people and services — it is a living portal," he says. Webmaster is Dave Tarc, a computing science and philosophy student, who can be reached at csa-web@uoguelph.ca.

SENATE SEEKS NOMINEES FOR TWO STAFF SEATS

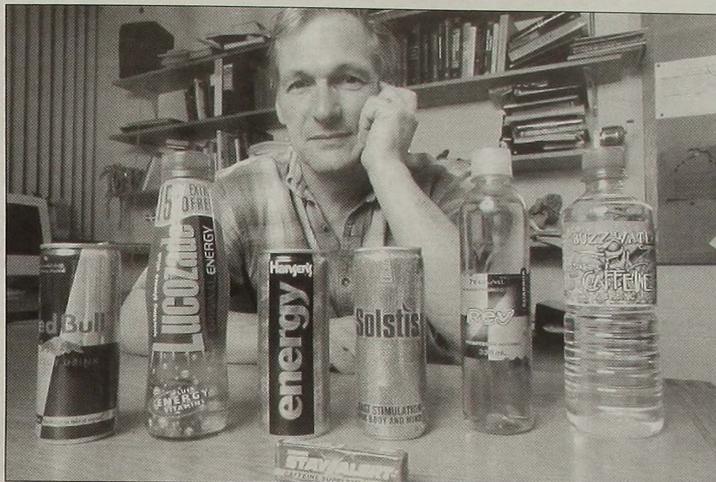
Senate is calling for nominations for two staff members to serve three-year terms running from Sept. 1, 2002, to Aug. 31, 2005. Any full-time non-teaching staff member is eligible to stand as a candidate for these seats or to nominate another candidate, unless the member is registered for a degree or diploma at U of G. A general election will be conducted by the Senate Office. The deadline for nominations is Feb. 1. For more information, call Mollie McDuffe-Wright at Ext. 6760.

NOMINATIONS SOUGHT FOR ALUMNI AWARDS

The U of G Alumni Association invites nominations for its three annual awards of excellence — Alumnus of Honour, Alumni Medal of Achievement and Alumni Volunteer Award. Nomination deadline is Feb. 8. Nominations are also sought for the OVC Distinguished Alumnus award, with submissions due Feb. 23. Nomination forms for all four awards are available from Andrea Pavia at Ext. 4430. In addition, HFAA seeks nominees for the George Bedell Award of Excellence. Deadline is Feb. 28. For more details, call Laurie Malleau at Ext. 2102.

Human Biologist Studies Link Between Caffeine, Diabetes

Research could lead to important potential treatment for diabetics



Prof. Terry Graham is exploring the relationship between caffeine, found in drinks such as coffee and these boosting beverages, and type-2 diabetes. PHOTO BY MARTIN SCHWABE

CANADIANS RESOLVING to cut their caffeine intake may reduce certain health risks as well, especially if obesity and lack of exercise play a role in diets that are high in caffeine.

Prof. Terry Graham, Human Biology and Nutritional Sciences, is part of a three-year tri-university effort researching the link between caffeine use and type-2 diabetes, the most common form of diabetes in Canada.

"The statistics in Canada and the western world are startling," says Graham. "Cases are becoming increasingly common and in younger age groups."

Type-2 diabetes is now common among people in their 40s, and increasing obesity in children suggests it will continue to affect younger age groups, he says.

Type-2 diabetes accounts for 90 per cent of diabetes in Canada. Those with the disease can still produce insulin — the body's blood glucose regulator — but Graham says they can't produce enough to "get the job done" and often have to take

drugs to help manage blood sugar levels. He says the two biggest risk factors are inactivity and obesity.

"We're finding caffeine can have an unhealthy effect on insulin levels for people already at risk."

Graham's concern is based on his previous studies involving caffeine's impact on exercise metabolism using two groups of university-aged men — one group called "lean" and the other "obese." The subjects were tested using an oral glucose tolerance test, conducted with and without prior caffeine ingestion. This work was performed by graduate students Sara Chown, Heather Petrie and Laura Belfie.

"Ideally, you want to produce the least amount of insulin to get your body's glucose level down to normal," says Graham. "We found that obese individuals have a resistance to insulin, which means they require higher levels of insulin to adjust their glucose levels. When given caffeine, their insulin levels go through the roof."

This research focused on short-term effects of caffeine, but the new

project will study some long-term effects surrounding caffeine and type-2 diabetes. It will involve obese and lean individuals between the ages of 40 and 60, with and without diabetes.

Among other long-term effects, the researchers will be looking for signs that the body adapts in habitual caffeine users.

"Caffeine is often thought of as a benign drug," says Graham, "and in many ways, it is. But from what we've seen so far, this research could lead to important potential treatment for diabetics."

Graham's research, in addition to involving a number of graduate students, involves research teams at two other Canadian universities (headed by Bob Ross and Bob Hudson at Queen's University and Arend Bonen at the University of Waterloo) and Mary Van Soeren, formerly of Guelph General Hospital.

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

BY LISA CAINES
SPARK PROGRAM

Lab Services, Elanco Join Forces

WORLD-CLASS feed analysis is central to a new partnership between Laboratory Services and Elanco Animal Health, a global research-based company that produces products to improve the health of animals. The new initiative builds on Elanco's presence in the Research Park and its long-standing support of research at U of G, says John Lynch, marketing manager for Lab Services.

"It gives the University new sources of revenue to support Laboratory Services, while Elanco is able to free up lab resources for new product development," he says. "Previously, Elanco's Canadian cus-

tomers were sending samples for testing to the company's central lab."

Lab Services is the designated analytical service arm of U of G that not only supports government and academic needs, but also provides advanced analysis to enhance the competitiveness of agricultural and food companies operating in Canada. It was selected by Elanco through a competitive process involving three other labs.

"We chose Laboratory Services because of the people, the facility and our successful long-standing association with the University of Guelph," says Paul Dick, Elanco's research manager for technical service

and quality control.

The company's relationship with U of G began in 1990. Since then, Elanco has dedicated \$1.2 million to a range of research programs. Their close involvement with Lab Services has also resulted in closer working relationships with the Natural Sciences and Engineering Research Council, OVC and OAC.

"We're all benefiting from our shared commitment to research and development via the exchange of ideas, concepts and synergies," Dick says.

BY ANDREW BEARINGER AND
LISA CAINES
SPARK PROGRAM

PEOPLE

PROF GIVES TALKS IN KRAKOW

Prof. David Douglas, Rural Planning and Development, currently co-ordinator of the Krakow semester, presented a paper on "Rural Development in Canada: Experience, Prospects and Challenges — International Perspectives" to the recently established Canadian studies program in the Institute of Regional Studies at Jagiellonian University in Krakow. He also conducted two classes at the Agricultural University in Krakow and presented the School of Rural Planning and Development as a case study in professional development and occupational orientation at a Conference on Labour Force Preparedness for Poland's eight agricultural universities.

NASBY CURATES INUIT ART EXHIBIT FOR AUSTRIA

Macdonald Stewart Art Centre director Judith Nasby is curating the first exhibition of Canadian Inuit art to be shown in Austria. The exhibition, to be staged at the Institut für Kunstgeschichte der Leopold-Franzens-Universität in Innsbruck, consists of fabric works and drawings from the art centre's internationally recognized Inuit art collection. Nasby will also participate in the international symposium "Cultural and Knowledge Transfer Between Austria and Canada, 1990-2000" organized by the Canadian Studies Centre of the University of Innsbruck in celebration of its fifth anniversary in May.

MEMORIAM

SHIRLEY GOEMANS

Shirley Goemans, a staff member in the Veterinary Teaching Hospital, died Dec. 15. She had been employed at the University since 1989. She is survived by her husband, Peter, and one son.

DONALD PEARSON

Donald Pearson, a retired police sergeant with Security Services, died Dec. 8 at age 71. He had been employed at the University for 25 years, retiring in 1992. He is survived by his wife, Helen, six stepchildren and 10 grandchildren. A tree will be planted in his memory next September in the Wall-Custance Memorial Forest at the Arboretum.

PAT STRONGMAN

Pat Strongman, a staff member in Student Financial Services in the Office of Registrarial Services from 1980 to 1997, died Dec. 25 at the age of 69. He is survived by two children, Zoe and Graham, and two grandchildren.

JEREMY VANDERENDE

Jeremy VanderEnde of Blenheim, a first-year diploma in agriculture student at Kemptville College, died suddenly Jan. 11 as the result of an accident. He was 18. He is survived by his parents, Harold and Marg, two sisters and a brother.

Caution Against Theft Urged

ARASH OF THEFTS on campus has Security Services urging members of the University community to be vigilant about protecting their belongings.

Hard hit by the thefts has been the Athletics Centre, with the men's change room being the primary target, says Keith McIntyre, director of Security Services. Thefts are being reported there almost daily, he says, and losses have included watches, cash, debit and credit cards, cheque-books, clothing, shoes, gym bags and Express cards. Some items have turned up at local pawnshops, and some of the stolen cheques and credit cards have been used.

A number of the thefts have occurred when someone has left their belongings in an unlocked locker or

has left a gym bag unattended for a few minutes while using the shower. But even those who conscientiously lock up their belongings have not been immune, says McIntyre. On numerous occasions, locks have been cut right off or locker doors have been broken into.

"People who use the Athletics Centre are naturally upset when they have items stolen from their locker or gym bag," he says, "and we are doing everything we can to catch the thief or thieves responsible for these crimes. But the people who use the Athletics Centre must also do their part to prevent these thefts by not bringing valuable items to the gym."

Theft has also been on the rise recently in the MacKinnon Building and in the U of G Library, says McIntyre.

"People leave their offices unattended or their bags and knapsacks unattended for just a few moments while they go to the washroom or go looking for a book in the stacks, and it only takes those few moments for a thief to strike."

He urges everyone working or studying in these buildings — and in all other buildings on campus — to keep their offices locked and to make sure that valuables are secured or kept in sight at all times. He also asks everyone to be alert to what's going on around them and to report anyone loitering or acting suspiciously in a building.

For more information, call Security Services officer Jim Armstrong at Ext. 2245 or community liaison officer Robin Begin at Ext. 6261.

Trees to Be Removed

THREE DEAD or dying trees on campus are slated to be removed later this month. The trees — a pine at the top of the steps by the MacKinnon Building, a pine on Creelman Plaza between Creelman and Mills halls and a maple near McNally House on Gordon Street — are either dead or structurally unsound and pose a risk to passing pedestrians, says John Reinhart, head of Grounds.

All of the trees will be replaced, he says, but the exact location of the new plantings is to be determined on the basis of longer-term landscape planning currently under way.

Later in the winter, a number of other dead or declining trees will be removed as well, he adds. These include a total of eight spruce trees located on McGilvray Street north of the Equine Research Centre, in parking lots 23/24, by East Residences and south of the Quad Park; a birch

tree in the University Centre loop lawn area and one in front of the President's House; a locust tree north of the soccer field on Stadium Walk; a crabapple tree on Dundas Lane; and a total of five maples on Powerhouse Lane and in P.2. Replacement plantings will be made.

Another 18 maples along Winegard Walk are also slated for removal. The trees along this walk have been regularly replaced over the years because they suffer from the effects of vandalism, salt and heat from the tunnels below, Reinhart says. "Continuing to replace the trees is no longer viable. Instead, we are looking at ways through the campus master plan to enhance the walkway."

For more information, call Reinhart at Ext. 2053.

Meanwhile, the City of Guelph will remove two large old trees on the Macdonald Stewart Art Centre property this winter. The trees have

been in a state of decline for a number of years, says Al Berberich, horticulture superintendent with the Parks Department, and several dead limbs have been removed over the last couple of years.

"Now the condition of the trees is such that we believe they should come down before they fall and hurt someone or damage the surrounding sculptures," he says.

In anticipation of the trees' gradual decline, the city had previously planted two new trees close by to help fill the void when the older trees are removed, he says. In the spring, the city will evaluate whether additional trees should be planted.

The two trees slated for removal are located behind the art centre's parking lot. For more information, call Berberich at 837-5626.

Rezoning Application Set for OMB Hearing

Majority of land would be used as office/research park

A UNIVERSITY OF GUELPH rezoning application for land along Stone Road is slated to go before the Ontario Municipal Board (OMB) in February, although the City of Guelph has requested the hearing be deferred.

The application concerns a 31-acre parcel of land between the new Canadian Tire and Edinburgh Market Place. The land is bordered to the north by the Dairy Bush and the University's family residences on College Avenue.

The University will ask the OMB to allow 18.5 acres to be rezoned for institutional/research park development and 12.5 acres for institutional/research park and community commercial use.

Guelph city councillors voted against the rezoning proposal Dec. 17, a reversal from the council's past position, which supported the issue.

"We are disappointed by the vote," says Nancy Sullivan, vice-president (finance and administration). "City council's focus unfortunately seems to be on the retail component of the proposal, whereas the majority of land would be used as an office/research park, similar to our Research Park on the south side of Stone Road."

The 12.5-acre portion of land includes 8.8 acres that is intended to accommodate the relocation of the Zellers department store from the Stone Road Mall. That would allow the Hudson's Bay Company to fill the vacated Zellers location in the mall with a two-storey Bay store as part of a total \$70-million investment in the retail area.

If the OMB approves the rezoning application, the University will continue to own the land and lease it to Zellers and other parties, with all revenue going into the University's endowment (Heritage Trust Fund).

Since the late 1980s, Board of Governors has earmarked these University lands for development.

"Board of Governors has deemed this land to be surplus to the University's needs," says Sullivan. "Board members are satisfied there is adequate land available as we grow for teaching and research purposes and for residences."

In the current funding environment for post-secondary education, "we do have to find innovative ways to support this institution's strategic

directions," she says.

The endowed Heritage Fund, established in 1991 and now worth \$38.5 million, receives all proceeds from the University's real estate activities — including the long-term leases for Edinburgh Market Place, the Research Park and the Village by the Arboretum.

The Heritage Fund — overseen by the Board of Trustees, a B of G committee — is used to support one-time strategic initiatives. It is not used to cover ongoing operating costs.

In the last decade, the University has received just over \$9 million from the Heritage Fund, which has supported initiatives such as faculty start-up costs; the development of TRELIS, the tri-university library system that gives students access to the collections at Guelph, the University of Waterloo and Wilfrid Laurier; the startup of the Learning Commons in the McLaughlin Library; and upgrading of the student information system and the financial information system.

Without the Heritage Fund, "we would have had to fund these projects out of operating funds, and that would have meant other fiscal challenges," says Sullivan.

Some retail development is necessary to help offset the high costs of servicing land slated for research use, says John Armstrong, director of the University's Real Estate Division. "We have only about five acres left for development in our Research Park. When the clients express interest, you want to be ready to respond to them."

The Dairy Bush area, used for teaching and research, and a pedestrian route from campus to Stone Road mall would remain and be well buffered from the Zellers development, says Armstrong. In addition, an alternative location has been found in Wellington Woods for family housing market gardens that are currently located on a portion of the land.

The OMB will decide Jan. 25 whether or not to grant the city's request for a deferral. The city made the request to allow preparation time for a planning consultant it has recently hired to represent its position.

BY STACEY CURRY GUNN

Student Dies in Accident

A KEMPTVILLE COLLEGE student was killed in a single motor vehicle accident Jan. 11 in Kemptville. Jeremy VanderEnde, 18, of Blenheim, Ont., died after the car he was driving struck a building at approximately 1 a.m. He was a first-year student in Kemptville's diploma in agriculture program and lived in residence.

"The faculty, staff and students

of Kemptville College deeply regret the tragic death of Jeremy VanderEnde," says college director Bill Curnoe. "We send our heartfelt condolences to Jeremy's family and friends and offer them our support at this very difficult time."

Grief counselling has been offered to members of the Kemptville College community, and residence staff are supporting students.

Happy 80th Birthday Linc

On the occasion of the Chancellor's 80th Birthday, the University of Guelph will officially launch the Campus Community Campaign

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the campus community campaign for the University of Guelph

OMAFRA Partnership Is 'Key Element' in University's New Vision for Future

Funding supports leading-edge research, educational programs and laboratory services

THE RENEWAL of the enhanced partnership agreement between U of G and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) is a "tremendous opportunity to renew our vision for agri-food research, education and technology transfer in support of innovation and the public good," says president Mordechai Rozanski.

By April, the University and OMAFRA will redefine how they will work together for the next five years. It's work that has enormous impact, not only on Ontario's \$9.54-billion agri-food industry, but also on the health and well-being of the province's people, animals and environment.

When the contract took effect April 1, 1997, Rozanski called it an "unparalleled example of government/university interaction."

The agreement — which builds on a more than 30-year relationship — has since delivered numerous benefits for Ontario, says Prof. Alan Wildeman, vice-president (research).

"Today, the University is at the forefront of a new era of advanced technological research that merges agri-food, nutrition, health and pharmaceutical research with advanced information technologies," he says.

Rozanski sees the renewal of the enhanced partnership as a "key element" in a new vision that will build on the University's historical strengths in agri-food and veterinary medicine.

"Guelph's expertise in the plant and animal life sciences, and our culture of innovation and application, allows us to solve real-life problems and improve the quality of people's lives," he says.

"We are all working very hard in these negotiations to advance these goals. There are significant budget challenges. But we are dedicated to overcoming these challenges because the enhanced partnership is such an important element in our ability to make important discoveries and deliver valuable applications that benefit the citizens of this province and beyond."

The funding that OMAFRA transfers to the University (\$50.5 million in 2001/2002) supports research, education and laboratory services.

RESEARCH

About \$38 million was earmarked for research in 2000/2001.

The University and OMAFRA work together to establish research priorities that become deliverables in the contract. The objectives relate to human, animal and plant health; rural communities; environmental management; and food safety.

"Research — both basic and applied — keeps our agri-food sector on the leading edge," says Wildeman. "It is primarily at universities that basic or curiosity-based re-



Fourth-year veterinary student Jackie Gordon examines a cow as part of her training in large-animal medicine. OMAFRA funds clinical education through the enhanced partnership contract with U of G.

PHOTO BY MARTIN SCHWALBE

search is encouraged and given long enough timelines to nurture new ideas that lead to groundbreaking advances."

U of G research includes the creation of new commodities that have health-promoting or disease-preventing properties. These "next generation" products — nutraceuticals, antibodies and vaccines — have the potential to open new agricultural markets and could boost rural and agricultural economies.

For example, one research group has found a way to incorporate DHA into milk. DHA is an important omega-3 fatty acid for brain and retinal development, and it may lower the risk of cardiovascular disease.

Another team is finding ways to extract important biochemically active compounds from Ontario crops, such as betacarotene from carrots and tomatoes, phytoestrogens from soybeans and flavours and fragrances from flowers. Unlike conventional extraction techniques, their process extracts the valuable substances without generating toxic residues and hazardous waste.

Researchers are also investigating methods of producing antibodies in plants such as tobacco and eggs. "Plantibodies" produced in tobacco could be used to detect food- and water-borne diseases. Researchers hope the egg project will lead to cheap and abundant supplies of a vaccine for rotavirus, considered one of the most serious diseases in the world, with up to three million children dying from it each year.

OVC faculty are also advancing human health through comparative medical research on reproductive technologies, genetic diseases, cancer, radiation treatment and antibiotic resistance. One current project involves testing a vaccine for cows that could eliminate the deadly *E. coli* O157:H7 bacterium. Work is also under way on technology to better treat joint injuries in horses and peo-

ple, and to prevent the early onset of arthritis.

A number of research efforts are focused on strategies that will lead to more efficient and environmentally friendly agricultural methods. For example, an integrated pest management treatment program for apple growers is using a variety of environmentally friendly products to save producers from orchard losses, significantly reducing the amount of chemical pesticides needed to maintain a healthy and profitable crop.

EDUCATION

OMAFRA funding also supports educational programs, including the University's agri-food diploma programs at OAC and Ridgetown, Kemptonville and Alfred colleges, and OVC's Veterinary Clinical Education Program (VCEP).

"Through training programs and an investment in research, new generations of highly qualified people will play important roles in the development of the agri-food industry," says Wildeman. "Universities have a crucial role to provide a continual source of skills and ideas, which contribute to a healthy economy, society and environment."

OVC dean Alan Meek says the VCEP funding "is critical to our ability to provide our students with es-

sential clinical education that serves Ontario's food-animal industry and the animal-owning public at large."

Recent events have shown the vital importance of veterinary colleges and veterinarians in Canada's infrastructure for public health protection, including regulatory agencies, food safety, wildlife and environmental health and medical research, he notes.

Veterinarians promote the quality and safety of food through proactive means, such as animal health programs that decrease the use of antibiotics.

Veterinary practitioners and researchers also play a key role in disease surveillance and outbreak response. "They are the first line of defence against threats to human and animal health, such as West Nile virus, mad cow disease, *E. coli* contamination and other diseases that can be transmitted through the food chain," Meek says. "Without effective and adequate training programs, this critical link in our defence of public and environment health would be lost."

LABORATORY SERVICES

The safety of the provincial food supply also relies on U of G's Laboratory Services division, which was transferred from OMAFRA in 1997

under the terms of the enhanced partnership.

OMAFRA uses Lab Services for analysis that meets the requirements of various provincial acts and regulations covering health and safety standards for food production.

"We strive to ensure that the food produced and sold in Ontario is safe to eat," says general manager Patricia Collins. "We are testing products on a daily basis that are entering or already in the food supply. That includes meat, fruits, vegetables and dairy products. Every year, we test 285,000 dairy samples alone."

OMAFRA also uses data from Lab Services to scan for disease outbreaks.

"Through our diagnostic services, we are actively monitoring the health of the herds in the province to watch for potential outbreaks that would represent a human health hazard or be economically devastating to a sector of the industry," Collins says.

Lab Services also provides OMAFRA with environmental monitoring services, including identifying plant diseases, soil testing and monitoring the quality of water in the Great Lakes.

The individual successes of the research, education and laboratory services under the OMAFRA contract collectively result in synergies with far-reaching effects, says Wildeman.

The partnership with OMAFRA is a major factor in the growth of the research and development cluster around U of G, he says. The University now has more than 35 external partners from government, industry and academia, and 25 research centres and institutes on campus.

Ultimately, Rozanski says, the goal is "to improve the quality of people's lives by creating safe and high-quality food, by advancing health and well-being, and by creating high-value industrial bio-products that contribute to a clean, sustainable environment."

"The University and OMAFRA have achieved a great deal in the last five years through the enhanced partnership, and the renewal of the agreement this spring will enable us to focus on future innovation."

BY STACEY CURRY GUNN

Lectures to Focus on Work/Life

UOF G's Centre for Families, Work and Well-Being is co-sponsoring a three-part lecture series beginning Jan. 25 on "The Challenge of Work/Life Integration in Canada." The lectures run from 11 a.m. to 2 p.m. at the Homewood Health Centre. Cost is \$150 for the series or \$60 per session and includes lunch.

The Centre for Families, Work and Well-Being strives to make the link between what happens in the

workplace and the effects on individuals, families and communities, says director Linda Hawkins.

"This lecture series allows us to share what we know, to reach out to human resource professionals and others who can use our academic research in a practical and demonstrative way. We wanted the series to cover a wide range of issues and offer a picture of what's happening across the country."

First up Jan. 25 are Prof. Donna Lero, Family Relations and Applied Nutrition, and Nora Spinks, president of Work-Life Harmony Enterprises. Lero will discuss "Work, Family and Well-Being in Canada." Spinks's topic is "Canadian Employers Respond to Work/Life."

For more information about the series or registration details, call 1-800-445-1798, Ext. 113.

A Question of Integrity

New initiatives aim to protect academic integrity at the University of Guelph

ILLUSTRATION BY MARLENA ZUBER

JUST ABOUT EVERY PROFESSOR has a favourite story to tell about a student who tried to pass off another's work as his or her own. For drama professor Ann Wilson, it's the "Love Story" episode, where a dating couple wrote one essay together and each turned it in under their own name.

It was when Wilson was teaching one section of a two-section course at York University. "I happened to be in the office of my colleague who was teaching the other section, when I glanced down at a pile of essays on the desk and noticed that the paper on top looked familiar."

It turned out to be the exact same essay another student had submitted in Wilson's section of the course. "We figured out the two students were going out. I guess they decided they would write one essay and share it between the two of them. Now that's love," she says with a chuckle.

But Wilson and other professors at U of G and across Canada agree that academic misconduct such as plagiarism is no laughing matter. This month, 47 economic students at Simon Fraser University were accused of cheating on an assignment. Last year, more than 120 students at the University of Alberta were charged with academic misconduct, with 45 of them being suspended or expelled. The University of Toronto is currently investigating 150 students for academic misconduct.

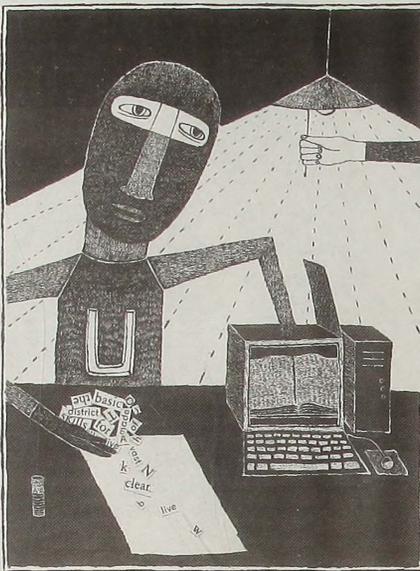
U of G administrators and faculty say it's difficult to know how widespread it is at Guelph and how to determine if students know what constitutes plagiarism—or, if they know, whether they consider it academic misconduct. And even if a professor is pretty sure a paper she or he is grading includes plagiarized sections, how does one verify it or even find the time to take such action?

These issues are just some of the topics Teaching Support Services (TSS) and the Learning Commons, in conjunction with a newly formed Academic Integrity Committee, hope to tackle with a series of initiatives aimed at protecting academic integrity at Guelph. They include:

- surveying professors, teaching assistants and students this month to find out how widespread the problem is at Guelph, how concerned people are, the level of understanding and acceptance of policies and procedures, and suggestions for dealing with issues;
- continuing to analyse literature that looks at academic misconduct at other North American universities;
- pilot testing software that scans papers for plagiarism; and
- making academic integrity the focus of the 15th annual Teaching and Learning Innovations Conference this spring.

"I believe these initiatives will put Guelph at the forefront of dealing with this issue," says TSS director Prof. Julia Christensen Hughes, who, along with the Learning Commons and Academic Integrity Committee, spent more than a year reviewing the literature and exploring how academic misconduct is dealt with at other North American universities, at the request of the Vice-President (Academic)'s Council.

The committee released the findings of this research last month. The report included some disheartening statistics, such as: 84 per cent of university students in North America engage in some form of academic dishonesty; Web sites offering term



papers receive as many as 80,000 hits a day; and students are more likely to engage in such misconduct if they think their peers are doing the same and getting away with it.

"The research also shows that 40 to 60 per cent of faculty who have seen academic misconduct say they have chosen to do nothing or little in response," says Christensen Hughes. "That's why we want to engage our faculty in the process to find out where they feel they need more support. And that's why we want to involve our teaching assistants and students as well, so we can understand what the issues are from their perspective and what help we can provide. The University has well-defined policies in this area, but it seems they are not always followed. We need to understand why."

(Information about U of G's policies is available on the University Web site at www.uoguelph.ca/GraduateStudies/calendar/archive/19982000/genreg/miscondu.html.)

Later this month, TSS will send out three different e-mail surveys to faculty, teaching assistants and students, asking them about their perceptions of academic integrity at Guelph. The survey has been endorsed by both the U of G Faculty Association and CUPE 3913, which represents teaching assistants. Data will be reported by college and will become part of a larger study being conducted by Duke University's Center for Academic Integrity in North Carolina.

"No one at Guelph will see any individual responses — they will be sent directly to Duke for aggregation," says Christensen Hughes. "Confidentiality is absolutely assured."

From an institutional point of view, she says, "it's critical

that we understand this issue and develop plans and strategies for dealing with it effectively."

Prof. Maureen Mancuso, associate vice-president (academic), who has been working with TSS and the Learning Commons on the initiatives, adds that the main reason for doing the survey is to provide real data about attitudes at Guelph. Previous reports about academic misconduct have varied considerably from year to year.

"There is concern among both faculty and students about maintaining academic integrity," she says. "Data from other sources indicate there is an erosion of academic integrity across North America and that student attitudes about what is 'acceptable' behaviour are changing. We want to collect information specific to Guelph, which can be reviewed and understood in light of the data from other jurisdictions."

Provost Alastair Summerlee says he's pleased that Mancuso, TSS and the Learning Commons have launched these initiatives. "It's very important that we support our faculty and students in this area of concern," he says.

The survey results will be shared this May at TSS's Teaching and Learning Innovations Conference, which is being co-hosted by the Learning Commons and McLaughlin Library. At the conference, faculty, students and teaching assistants will be able to comment on the survey and make recommendations for enhancing academic integrity. The event will also include workshops and two keynote speakers: Don McCabe of Rutgers University, who has done much of the existing research on academic misconduct in North America, and Robert Harris, author of *The Plagiarism Handbook: Strategies for Preventing, Detecting and Dealing With Plagiarism*.

In the meantime, TSS and the Learning Commons will continue to provide other support programs and educational materials aimed at maintaining academic integrity, including developing a Web site and pilot testing the software program Turnitin, a Web-based service that identifies essays that may have been purchased through "paper mills" or sections of papers that may have been plagiarized from the Internet.

"You submit a paper electronically, and it takes about 24 hours to get it back," says Pat Thompson, who is overseeing use of the software for TSS. The papers come back with questionable sections highlighted in colour and a notation about the source of the information.

A second phase of the pilot test is scheduled for this semester. For more information about the program, visit the Web site www.turnitin.com or call Thompson at Ext. 2965.

Having options and guidance about academic misconduct is welcomed by professors such as Wilson. "I think students plagiarize for many reasons," she says. "In some cases, they do it out of desperation. Others plagiarize because it's the easy thing to do. I also think some students genuinely don't know what is acceptable and what is not."

For these reasons, she adds, professors have an obligation to their students to make academic misconduct difficult. "Part of the solution involves designing assignments that are specific in addressing concerns particular to the course and issues that have been raised in class."

BY LORI BONA HUNT

Shedding Light on Plagiarism

SOME U OF G professors are taking extra measures to cut down on academic misconduct, including giving students "quizzes" designed to teach them what constitutes plagiarism and checking papers with innovative "plagiarism-detecting" software programs.

"We've had papers submitted that we know are 98-per-cent plagiarized," says Sheri Hincks, who along with April Nejedly teaches the zoology distance education course "Humans in the Natural World."

"It's a first-year science course for non-science majors," says Hincks, "so I'm not sure if the students don't know when they're plagiarizing something or if they just do it and know it's wrong. It is just so easy to go on the Web and copy, click and paste something into a document."

She and Nejedly have designed their

course to include assignments and quizzes intended to teach students about plagiarism. They adapted it from a module put together by Dawn Larson, an instructor in the Department of Molecular Biology and Genetics. It includes case scenarios that ask the students to decide whether plagiarism was involved. When they respond, the program offers immediate feedback and information. The students then complete an assignment that involves summarizing scientific articles available on the Internet, in the popular press and in a field journal, and they must submit the sources' Internet addresses with their assignment.

When students turn in work that Hincks and Nejedly consider to be plagiarized, the work is submitted to the chair for academic review.

"Most students don't make the same mis-

take again," says Hincks. "Most of them are really quite concerned and didn't realize what they were doing is wrong."

Zoology professor Steve Scadding, acting director of Teaching Support Services, has taken similar steps in his courses, especially those taught via distance education. He uses a software program called EVE2 to find what he calls "cut and paste" plagiarism, and he tells his students in advance that he will be using the software.

"Many of these students are writing a university-level essay for the first time," he says, "and they may be cutting and pasting things from articles they find on the Internet. Maybe it's something they got away with in high school, or maybe they waited until the night before the assignment was due and it just seemed easier than writing their own essay."

A COMMUNITY EFFORT

Four members of the University volunteer to lead the campus community campaign

LATER THIS MONTH, U of G will launch a campus community campaign. This endeavour is part of Guelph's current efforts to expand bursaries and scholarships to support accessibility and the education of the next generation of students; to help attract outstanding talent to the campus; and to raise funds to build new and better facilities for staff, faculty and students. These members of the U of G community have volunteered to lead the campus community campaign.

KENDA SEMPLE

During her 25 years with U of G, Kenda Semple, a custodian with Physical Resources, has probably been in every one of the close to 150 buildings on campus.

"I don't think there's a place that I haven't worked in or done something in, whether it was watering the plants inside or shovelling the snow outside," Semple says with a laugh, adding that, as a result, she knows "everybody."

She joined the University in September 1976 as part of the Housekeeping Unit. Her job was to clean the University Centre on the overnight shift from 10:30 p.m. to 7 a.m. "I had no children at that time, so it wasn't that hard for me to do it."

In 1980, she moved to the Grounds Department, where she was first a groundskeeper and then, after completing a home gardener course through Independent Study, a gardener. When she wanted a change 11 years later, she joined the campus maintenance truck pool. Two years later, however, she decided to go back to Housekeeping, where she's been for the past eight years. Along the way, Semple also found time to volunteer with the University's Educational Equity Committee.

Her knowledge of the campus — and its people — was behind her decision to co-chair the staff portion of the campus community campaign. Another reason, she says, is that her work on campus has given her a real appreciation of U of G's students and of the University itself as a fair and generous employer.

"Part of my job involves cleaning classrooms, and I've realized that classes are too overcrowded," she says. "The University, which provides thousands of people with stable and quality employment, needs our financial support to keep growing and adding the space we all need, whether we're students, staff or faculty."

THOM HERRMANN

Prof. Thom Herrmann, Psychology, says he's happy to be a "cheerleader" for the campus community campaign because he's worked here for 30 years and he believes in U of G. "I'm a lifer. I've seen this place grow and I'm dedicated to help it grow in the future. If we don't believe in this place, why should anyone else? Guelph is a first-rate university. It's not perfect, but it's an institution striving to become better in every way."

Herrmann says when he started at Guelph it was known only as an agricultural school — "cow college" — and a place with a veterinary school.

"Since then, it's become a well-rounded, first-rate university that undergraduates and graduates from all over Canada and the world come to."

He notes that U of G can continue to grow "only if we're able to find the mental and physical resources. 'Common sense' governments don't seem to be willing to put all the money necessary forward, and I'm not sure industry contributions are the way to go. The donor method is extremely important."

Herrmann has spent two decades working on behalf of faculty through the U of G Faculty Association (UGFA). The better part of that time, he has been UGFA's chief negotiator; now, he's the association's president. He was also head of Teaching Support Services in the mid-1980s.

"I've spent much of my time negotiating — and fighting — with the administration," he acknowledges. "I'm not someone who dreams of advancing administratively. I've agreed to support the campaign for the same reason I'm in the Faculty Association — to work to make things better.



MARY BEVERLEY-BURTON

Retired zoology professor Mary Beverley-Burton's definition of retirement does not include resting on her laurels. Or resting much at all for that matter.

During her 27-year career at Guelph, the internationally renowned parasitologist led the fight to establish a maternity-leave policy for all female employees on campus; campaigned for more balanced support of varsity, intramural sports and fitness programs for both male and female athletes; and was a leader in efforts to establish the Guelph chapter of the Canadian Association of Women in Science. In addition, she was a faculty adviser to the Athletics Advisory Council, a longtime member of Senate, a member of the UGFA executive and council, a member of the Joint Faculty Policies Committee and a Senate representative on B of G.

That commitment and dedication to learning and service didn't stop when she retired in 1995. Since then, she has helped launch the Guelph chapter of the Ontario Master Gardeners, completed an Ontario diploma in horticulture, signed on as a docent at the Arboretum and served on the steering committee for U of G's ACCESS program, raising money for student scholarships. Now she's on board as a co-chair of the campus community campaign.

"Giving to the University is a personal choice," she says, "and the target of gifts may change throughout life. My three children all benefited from tuition waivers, and scholarships were an enormous help to my daughter when she was a student here. So I thoroughly support the initiative being made in the campaign to raise funds for financial help to students. But some donors may prefer to give towards more tangible goals that are more visible to a wider community — such as the Arboretum and the U of G Library — and that would benefit tremendously from donations made by members of the University."

TODD SCHENK

He wants to ride from the coast of Vietnam to the English Channel on a motorcycle. Todd Schenk says it's the longest overland route in the world, "and it would be a pretty darn interesting trip."

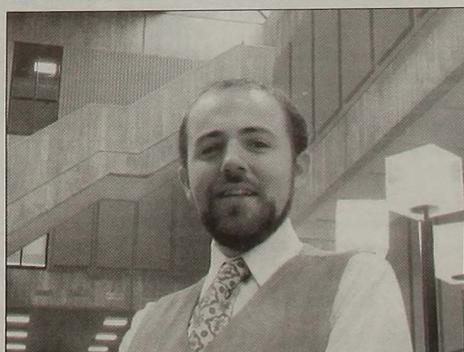
Some things are just worth doing. Like majoring in geography with a minor in international development, like representing his peers as communications commissioner of the Central Student Association (CSA) and, now, advocating student participation in the University's community campaign.

Agreeing to co-chair this campaign was a considered decision for Schenk, who believes in principle that the full responsibility for funding post-secondary education should rest with Canadian society. But he is also a realist who says this ideal can't be achieved in the current political climate.

Schenk says he and his peers in the CSA see value in the campus campaign because it's a way for the U of G community to advocate that social responsibility. "I believe strongly in a community supporting the community. The campus campaign is a good way for this community to give back — to contribute to the good things we're doing here and reduce our dependence on outside funding."

Looking at recent CSA initiatives, Schenk notes that students have demonstrated a willingness to support worthwhile programs, such as raising \$6,500 for the United Way, agreeing to increase fees for student services, and helping to fund the new covered athletic field, career counselling efforts and programs that benefit special-interest groups on campus. Schenk has played a key role in CSA efforts to raise the public profile of student concerns and get students more involved in the political process.

He says his CSA experience is rewarding because the organization is making positive changes, but it's also fueling his interest in the political process and social structures. When he graduates, he plans to apply for a CIDA internship "somewhere in the world." After that, the motorcycle trip and probably graduate school.



Co-chairs of the campus community campaign, from top: Kenda Semple, Thom Herrmann, Mary Beverley-Burton and Todd Schenk.

PHOTOS BY DEAN PALMER/THE SCENARIO

"I think many of my colleagues, from staff to retirees, are here for the same reason. We believe in this university, and we're not afraid to stand up and tell other people about it."

LETTERS

NO CONTROVERSY AMONG EVOLUTIONARY BIOLOGISTS

I'm a faithful reader of @Guelph, but rarely do I feel the need to publicly challenge the views of its contributors. I have to applaud Profs. Bonnie Mallard and Art Hill (Dec. 12 issue) for waking me from my work-induced apathy with their unexpected and rather puzzling criticism of a research program on evolution in snails that was featured in the Nov. 28 issue of @Guelph.

Specifically, they argue that adaptive changes in a snail population that occur following the introduction of predators do not constitute evolution. More generally, they claim that any change caused by natural selection is not evolution because it is apparently reversible and is limited to the variation initially available in the genome.

As an evolutionary biologist, I was taken aback by these declarations, which are mistaken on all accounts. The fact is that evolution is defined as any change in the frequency of alleles within a population, and such changes in snails would certainly qualify, regardless of their magnitude.

Furthermore, I am aware of no controversy among evolutionary biologists on this matter, as Profs. Mallard and Hill would have us believe. From their comment about reversibility, I can only assume they are confusing the genetic process studied in snails with the ontogenetic process, referred to as phenotypic plasticity, which could lead to a reversal in form if replaced in the original environment.

Moreover, they seem unaware of the role of recombination and recurrent mutation that would pro-

vide new sources of variation, which allows selection to modify the organism well beyond its initial range of variation.

Their viewpoint reminds me of a common argument made for creationism, which isn't really an argument at all, just nipping at evolutionary biology. Many creationists grant that genetic change occurs on a small scale within species, but they claim this cannot produce macroevolution, which is, after all, the real evolution. For evidence, they claim no one has ever seen such transformations occur. This contradicts the available evidence from paleontology, developmental biology and evolutionary genetics.

In attempting to clarify what they perceive as a "common misunderstanding" about the relationship between natural selection and evolution, Profs. Mallard and Hill have instead created confusion when there is, in fact, none among evolutionary biologists.

Natural selection is indeed evolution, in that it results in changes in the genetic composition of a population, no matter how minor.

Prof. Brian Husband
Department of Botany

GENETIC ADAPTATION TO ENVIRONMENT ONE TYPE OF EVOLUTION

I am writing in response to the Dec. 12 letter from Profs. Bonnie Mallard and Art Hill.

Evolution is defined in Strickberger's (2000) textbook as "genetic changes in populations of organisms through time that lead to differences among them." Genetic adaptation of populations to changes in the environment fits this

definition and is therefore one type of evolution.

I have previously shown that shell thickness in the marine littorinid snails I study is a heritable quantitative trait. Directional selection can change the mean value of quantitative traits far beyond the initial range of variation in the base population. Reports of changes in the mean of 10 phenotypic standard deviations after 10 generations of directional selection are not uncommon. This is possible because of changes of the gene frequencies of existing alleles and the creation of new alleles by mutation at the multiple loci that affect a particular quantitative trait.

Predictive models of this type of microevolutionary change may allow me to determine whether Canadian animal populations can adapt to the type of environmental changes we expect in the next 100 years or so.

I agree with Profs. Mallard and Hill that my models are unlikely to shed light on macroevolutionary questions such as why a snail has a different body plan than a trout does. But major mutations, duplications and major changes in the regulation of the homeotic genes that result in the different body plans of different animal phyla have occurred very infrequently in the last 600 million years and therefore do not need to be included in my models.

That microevolution is sometimes reversible is intellectually satisfying. If we manage to halt global warming or remove zebra mussels from the Great Lakes, we might hope that any surviving Canadian populations will return to their initial state.

Prof. Elizabeth Boulding
Department of Zoology

Lactating Women Should Avoid Charred Meat, Study Shows

Chemicals formed during cooking found in human milk

BREAST-FEEDING MOTHERS who consume charred meats are probably passing dangerous environmental contaminants on to their children, according to a first-ever study by U of G researchers.

Heterocyclic amines — the mutagenic and carcinogenic products formed during frying, broiling and grilling of meats — were found in human milk during tests conducted by Prof. David Josephy and post-doc researcher Lillian DeBruin of the Department of Chemistry and Biochemistry and Perry Martos of Laboratory Services.

"There have been a number of studies that have found a link between consuming charred meats and an increased risk of breast cancer," Josephy says. One investigation concluded that women who ate red meat that was "very well done" had a 4.6-fold increased risk of breast cancer compared with those who usually ate meat that was "rare" or "medium."

"But this is the first time analysis of these compounds has been conducted on human milk," Josephy says. "We can say with some certainty that most of these environmental chemicals are also being absorbed by nursing infants, and as a rule, infants are more susceptible than adults."

The research is reported in the journal *Chemical Research in Toxicology*, published by the American Chemical Society, the world's largest scientific society. The pilot study included samples from 11 lactating mothers living near Guelph, 10 of

whom are meat eaters. The environmental chemicals that result from eating grilled meats were detected in nine of the 11 samples, with one of the two exceptions being the milk of the vegetarian donor.

"The presence of these environmental chemicals in human milk means this is possibly a human mammary carcinogen," says DeBruin.

Josephy adds that animal meat is the most likely source. "The chemicals are formed by heating creatine with amino acids, and creatine is found almost exclusively in muscle." This includes red meat, fish and chicken. "Reducing the intake of overly cooked meats might minimize exposure to these compounds," he says.

The chemicals have a relatively short lifespan in the body — between eight and 24 hours — so cutting back on consumption even just while breast-feeding might have a positive effect, he says.

Although the study was a pilot project intended to test the methodology of analysing milk samples for these contaminants, Josephy says the findings are provocative. "We will now embark on a more comprehensive study."

That work will include more detailed analysis of women's dietary habits and is being funded by the Canadian Breast Cancer Foundation.

BY LORI BONA HUNT

YOUR OTHER PENSION OPTION

An exclusive meeting open to professors and staff of the University of Guelph. Discussion on the strengths and weaknesses of transferring out the value of your pension.

TOPICS WILL INCLUDE

- solutions to tax consequences of the commuted value option
- explanation of the excess contributions and maximum transferability
- full explanation of all Guelph pension items
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Slogan Promotes Value of Libraries

Trademark launched during National Library Week

IF YOU'VE BEEN to the U of G Library lately, you've probably noticed the red and yellow banner outside the entrance that reads @your library™. This slogan was conceived by the American Library Association as part of a campaign to draw attention to — and promote the value of — libraries in the 21st century, says science and technology librarian Jeannie Cockcroft.

The trademark was officially launched last April during a National Library Week event in Washington, D.C., featuring First Lady Laura Bush, who is a librarian herself. Cockcroft says libraries throughout the world are using the slogan to ignite interest in their new technically savvy services and programs. Here at home, the Ontario Library Association is responsible for helping libraries throughout the

province become part of this effort, she says.

The U of G Library is promoting the theme with other @your library initiatives, including a virtual reference service: questions @your desk and answers @your library™.

"Guelph is leading the way for many university libraries in North America in providing the campus with access to this new virtual reference technology," says Cockcroft. "This technology makes it possible to ask our library staff questions via the Internet in a real-time, live chat, Web-sharing environment."

She notes that the library's home page, launched last summer, also showcases the @your library logo in menu headings to make it easier for users to find their way to the resources and services offered through the site.

Energy Audit Looks at Ways to Do Things Better

Retrofit would enable University to cut costs and reduce carbon dioxide emissions

IT TAKES A LOT OF ENERGY to run a university. Here at U of G, with some 150 buildings on campus, energy costs run into the millions of dollars each year and are expected to keep getting higher. In an effort to reduce those costs and help the environment, U of G is conducting a campus energy audit that will shed light on ways to do things better.

The audit is being carried out by MCW Custom Energy Solutions Ltd. of Toronto, a Canadian-owned company that has done similar work for the University of Manitoba and other campuses, as well as school boards, the federal government and even Banff National Park. Since mid-September, MCW staff and consultants have been examining all aspects of the University's physical operation. At the end of January, the company will report on its findings, presenting the University with a feasibility study outlining potential ways of reducing energy use and predicting the savings to be made.

"We'll report on all the areas where energy can be saved, from light bulbs, windows and toilets to the steam-generation system, to alternative energy sources, to public education, to changing the way people operate," says MCW project co-manager Ian Sinclair.

A big part of the audit has focused on lighting because that's where about 40 per cent of a university's hydro is traditionally directed. MCW staff have been cataloguing every light fixture on campus, as well as taking light readings and logging how long lights are left on. This task is being carried out by a five-person crew consisting of an MCW electrical staff member based on campus, two Guelph graduate students and two U of G graduates.

At any one time, there are also three MCW mechanical engineers reviewing pumps, fans and other mechanical equipment on site or working from drawings provided by the University. A water conservation team looked at such things as water use in toilets, residence showers and laboratories. Another team examined building envelopes (doors, windows, roofs, etc.). In addition, a consultant was recently on campus looking at the possibility of introducing solar-generated water heating to the pools in the Athletics Centre. MCW is also carrying out a

gym is empty. We're looking at different ways of doing that. We want to solve problems, not just replace things."

In the feasibility study resulting from the review, MCW will provide the University with a wide-ranging menu of energy-saving options to consider, says Sinclair. "Our role is to think outside the box and look at all the possibilities. It's then up to the University to draw its own margins around what it wants."

U of G project manager Dan MacLachlan, assistant executive director of Physical Resources, says the

And the company stands behind its prediction of annual savings, he says. If the savings fall short in a particular year, MCW makes up the difference. "That's why this is such a good fit for universities, because they're under such budget restraints," he says.

Sinclair stresses, however, that saving money isn't the most important goal of a major retrofit. "The biggest thing is to make a dent in the University's carbon dioxide emissions," he says.

He believes this is a good opportunity to raise awareness among members of the University commu-

the costs of maintenance and make it easier to manage, says Sinclair. He notes that MCW will provide training during and after the construction period to everyone in Physical Resources involved in operating the new systems and equipment. "There's no point in spending money if people don't understand how something works or don't understand the intent. We want everyone to be comfortable with it."

Ensuring that people are comfortable is an important part of MCW's job, he adds. "We don't come in, drop out of the clouds and say: 'You're going to do this and this and this. We ask people on campus what they want to see done. Collaboration is essential."

During the construction phase, the goal will be to be as unobtrusive as possible to the campus community, says Sinclair. Much of the work will be carried out during quieter periods of the year, and the lighting work will be done at night. "We're used to doing projects in high schools and hotels," he says. "And we did the Supreme Court of Canada, which never closes."

Many of the improvements will be invisible to most people on campus, but such things as better lighting, air circulation, cooling and heating will be immediately apparent.

"We want to make it so that people are more comfortable in their environment," says Sinclair. "And generally, if you have a problem with a building's environment, energy is being wasted somewhere. So when you solve the problem, you not only save energy and money, but you also make it better for the people who work there."

BY BARBARA CHANCE

"Buildings use 30 to 40 per cent of Canada's energy. People should be aware of their impact on energy other than just driving to work every day."

full review of the University's utility billings, including identifying the actual effect of weather on consumption.

Sinclair notes that most of the buildings on campus are at least 30 to 40 years old, and in the years since they were built, products, technologies and ways of thinking about energy have changed dramatically.

"For example, the technology of a light bulb and the ballast that powers the bulb has improved significantly. Today, you can get better lighting quality with the same lighting levels and still use a third less energy. A lot of savings can be realized just by replacing the old with the new."

But MCW is not just looking at "changing A for B," he says. "It's more than a retrofit — it's a re-design. We're evaluating how things can be done better. In a gym, for example, you typically have lights that take 10 minutes to come on, so people leave them on all day even if the

study will be reviewed by the Physical Resources committee that originally commissioned it as well as various University administrators, who will determine which of MCW's options to pursue. Their recommendations will then go to Board of Governors for approval.

Whatever retrofitting measures U of G decides to take, MCW will manage the project from initial engineering design to turnkey project management through to the one to two years of on-site construction required. Following the construction, MCW will maintain an energy advocate on campus and review utility bills to ensure savings are being generated.

All costs of the retrofit will be covered by the energy savings themselves, says Sinclair. MCW offers to arrange initial financing of all construction work, then recoups the investment through the savings realized over a set period of years.

nity about global warming and about how energy is used in buildings. "Buildings use 30 to 40 per cent of Canada's energy," he says. "People should be aware of their impact on energy other than just driving to work every day."

MacLachlan adds that the retrofit will help address the deferred maintenance in U of G's aging buildings. "If we're replacing things with energy-efficient products, we'll also be renewing infrastructure and reducing our total amount of deferred maintenance. The University has been looking for creative ways to deal with deferred maintenance, and this will help."

In addition, he says, the retrofit will provide an opportunity to standardize products used at U of G, "so that we're not using hundreds of different types of light bulbs, for example. This will save money, time and energy in the long run."

Overall, the retrofit will reduce

Resource Efficient Agricultural Production (REAP-Canada) invites you for a day on

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Workshop on International Sustainable Agriculture

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3:30-5 p.m. **Restoring the landscape using analog forestry and organic certification**

Learn about CIDA-funded development initiatives in the Philippines and the agro-ecological village development model.

Two of REAP's Philippine partners will give presentations during the afternoon session: Georie Pitong, director of MASIPAG-Visayas (Farmer-Scientist Partnership for Development), and Leopoldo Guilaran, a farmer and the active chairman of MASIPAG.

Cost: \$50 general, \$10 for students

Come and learn how you can be involved!

The 21st Annual Guelph Organic Agriculture Conference (Jan. 25-27) offers a variety of workshops on organic farming and an organic trade show. See <http://www.guelph2002.organicfarms.ca> or call the conference response line: 519-824-4120, Ext. 2558.

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New Varsity Rowing Team Is Making Waves

Novice rowers make impressive showing at provincial championships

PROF. WALTER KEHM, Landscape Architecture, wasn't sure what to expect. There at the start line was a crew of eight U of G students, poised over the oars in their 20-year-old racing shell, waiting for the signal for the novice women's eight final in St. Catharines in November.

Having dominated their category for the entire season, the crew had easily won the first heat to advance to the final round. Still, this was only the first season of varsity rowing for them, as it was for the other Gryphon women's and men's crews competing in the varsity OUA rowing championships.

How well would Guelph stand up against seasoned teams from the likes of Toronto, Western and Queen's?

More than respectably, as it turned out. That novice crew powered its way through a rain- and wind-swept course to a gold medal. Later, the heavyweight women's four from U of G captured a bronze medal in their event.

"It's been quite amazing," says Kehm, founding president of the

three-year-old Guelph Rowing Club and one of several coaches of the new varsity team working with head coach Brian Sulley.

"We've suddenly found ourselves in a situation in our first varsity season of being very successful. The crew of new women varsity rowers has just got people talking."

People aren't just talking. They're rowing, if the growing popularity of a young club in Guelph is any indication. Three years after Kehm helped launch a learn-to-row program, the Guelph Rowing Club now includes about 120 dues-paying members in high school, varsity and master's competitive and recreational rowing, plus about 150 to 200 people enrolled in learn-to-row instruction.

The varsity team now includes about 40 students. Another 30 to 40 students, staff and faculty belong to the University Rowing Club, which is part of the Guelph club. So is the local high school rowing program begun in 2000, which drew about 60 public students this year to compete in about 10 regattas.

Kehm says that local growth reflects "exploding" interest across

Canada, particularly in the wake of recent high-profile successes of championship rowers such as Silken Laumann, Marnie McBean and Katharine Heddle. "Canada's one of the rowing powers of the world," he says.

Both as a sport and a recreational pastime, rowing has become especially popular among women. About seven out of 10 rowers today are female, a turnaround for a sport once considered a male, Ivy League bastion.

Put together that trend with an increasing proportion of female students attending U of G, and Kehm says the University's competitive and recreational rowing program might even become a tool for student recruitment efforts. "I could see this being a big draw."

Margaret Timmins, administrative assistant in the Department of Food Science and a member of the Guelph Rowing Club, says Olympic rowers generally come out of the university system. "And the more university clubs we have, the better I think it's going to make rowing in Canada. I think it's wonderful that

the students at Guelph now have that opportunity to be involved in rowing."

Timmins's own involvement began two years ago with the learn-to-row program. In September, she competed among more than 3,000 athletes at the world master's meet (for rowers age 27 and older) in Montreal with her doubles partner, Pat Passmore, of the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

"We're a unique University of Guelph-OMAFRA partnership, a different little twist," says Timmins. Having paired up after rowing together last year on a women's four team, they're now aiming for the world championships in France in 2003.

The Guelph Rowing Club sprang out of planning for the 1998 Summer University Games held in the city, for which Kehm co-ordinated the rowing, canoeing and kayaking events on Guelph Lake.

Noting the club's scope from high school students to seniors, Pat Weir, a veterinary technician in OVC, says: "When they say it's a lifetime sport, it truly is."

Adds Timmins: "What's wonderful about the sport is, it's something you can start later on in life and still have the opportunity to reach a level of proficiency where you can be competitive. That's a real plus for people."

That sentiment is echoed by Passmore, who says she plans to

continue rowing "as far as I can. They can bury me in the boat."

The "all for one, one for all" spirit also makes rowing a natural team-building exercise, says Kehm.

Passmore agrees: "There are absolutely no egos in a boat. Everyone has to work together."

Kehm has been rowing since 1955, when the New York City native saw his first regatta on a video clip. He chose to attend Syracuse University not just because it was in his state but also because it offered a rowing program.

Now a Guelph Rowing Club coach and master rower, he competed last summer at the Henley Regatta in St. Catharines, where his men's four crew won a silver medal. He calls rowing "the graceful application of power, not the grunt contact of football or rugby. If you don't row gracefully, the boat doesn't move."

Weir says she has always liked the look of rowing. And besides its esthetic and physical benefits, she had another goal in mind when she enrolled in the inaugural learn-to-row program: to pass the mandatory swim test.

"I'm actually afraid of water," she says. "One of the reasons I wanted to row was to work on that." Now a learn-to-row instructor herself, she says her swimming has improved. "I don't even think about it now when I get into the boat."

BY ANDREW VOWLES

Woods Hole Founder to Speak

GEOURGE WOODWELL, founder, president and director of the Woods Hole Research Center in Woods Hole, Mass., will visit campus Jan. 22 to speak in the College Faculty of Environmental Design and Rural Development Colloquium Series.

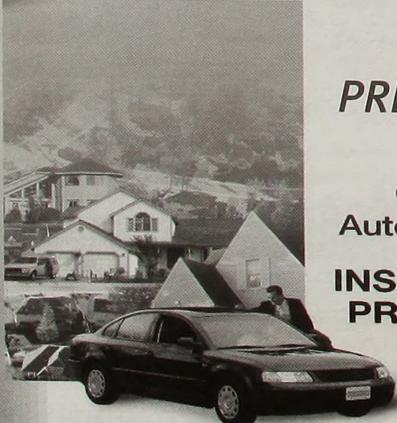
He will speak on "Security and Insecurity in a Terrified World" at 7 p.m. in Room 1714 of the OVC Learning Centre. His visit is being

chaired by Prof. David Rapport and former president of Sweden, Ola Ullsten, an honorary degree recipient of U of G.

A graduate of Dartmouth College and Duke University, Woodwell joined the Brookhaven National Laboratory in 1961 and remained there until 1975, when he founded and became director of the ecosystems centre at the Marine Biology Laboratory in Woods Hole. He

founded the Woods Hole Research Center, an institute for global environmental research, in 1985.

The author of more than 300 papers on ecology, Woodwell is the recipient of a number of prestigious international prizes, including the 1996 Heinz Environmental Prize, the 2000 John H. Chafee Excellence in Environmental Affairs Award and the 2001 Volvo Environment Prize.



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Organic Agriculture Focus of Talks

THE 21ST ANNUAL Organic Agriculture Conference runs Jan. 25 to 27 in the University Centre. This year's theme is "Organic Agriculture and the Farm Economy." The conference will include workshops, seminars, a trade show and a keynote talk by Gunnar Rundgren, president of the International Federation of Organic Agriculture Movements.

The conference will also feature a public forum and panel discussion on "Can Organics Save the Farm Economy?" Jan. 25 at 7 p.m. in the Whippetree. Cost of the forum is \$10. For more information, call Ext. 2558.

During the conference, Resource Efficient Agricultural Production

(REAP-Canada) will host a workshop on international sustainable agriculture Jan. 26 in the University Centre (room TBA). Discussion will focus on youth opportunities in international organic agriculture at 11 a.m., agro-ecological villages as a development strategy at 1:30 p.m. and restoring the landscape using analog forestry and organic certification at 3:30 p.m.

Two of REAP's Philippine partners will give presentations: Georie Pitong, director of MASIPAG-Visayas, which is a farmer/scientist partnership for development; and Leopoldo Guilanar, a farmer and acting chair of MASIPAG.

Cost of the workshop is \$50 general and \$10 for students at the door.

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
Jan. 30	Jan. 22	March 27	March 19
Feb. 13	Feb. 5	April 10	April 2
Feb. 27	Feb. 19	April 24	April 16
March 13	March 5	May 8	April 30

CLASSIFIEDS

WANTED

Pop-up tent trailer, 10- to 12-foot box, king-sized bed, great shape, Ext. 4596 or avuk@uoguelph.ca.

Used opaque projector in good condition, Kimberly, Ext. 3144 or kmckayfl@uoguelph.ca.

One-bedroom apartment, bachelor or shared accommodations for Feb. 1 for mature student, Andrea, 905-522-3167 or kohrab@mcmaster.ca.

Experienced female driver to drive student to Guelph from school in south Kitchener Monday to Friday at 3:20 p.m. and/or from Guelph to Kitchener at 7:40 a.m., Helen, 824-2634.

Furnished bachelor apartment in quiet neighbourhood for mature, quiet student, with laundry, parking and separate entrance, preferably within 30-minute walk from campus, non-smoker, no pets, reasonable rent, 837-0022 or sunflowererjo@hotmail.com.

FOR SALE

Laptop — Acer Extensa 501DX, Pentium 266 MHz, 32-MB RAM, 3.2 GB, 20X CD-ROM, floppy, 56K modem, Windows 98, Curtis, 837-1594 or mohanc@uoguelph.ca.

Pasier Hannover all-purpose saddle, 17½ inches, excellent condition, Maria, Ext. 4118 or mmackay@uoguelph.ca.

Laboratory analytical equipment: 1993 Tecator Auto Sampler system, 1995 Atomic Force microscope, 1990 VG Autospec, 767-6314 or kprear@lsd.uoguelph.ca.

Downhill skis, 160- and 180-cm, size SX 7.8.9, ski boots, poles; weight bar plus 150 lbs. of weights, Ext. 2622 or gchapman@uoguelph.ca.

Couch, sofa bed, sofa set, 30-gallon aquarium with accessories, exercise machine, office chair, baby car seat/carrier, baby swing, playpen, will deliver, 824-5440.

Golf bag, "Taylormade," dark brown/black, brand new, never used, 827-0941 or kkosari@uoguelph.ca.

FOR RENT

Furnished bachelor apartment in Normandie, France, sleeps two or three, parking, \$700 for three weeks from April to October and \$600 a month from November to March, 763-8806.

Young professional seeking roommate to share large two-bedroom

apartment in north end of town, must like dogs, 822-6228 after 5 p.m.

Furnished three-bedroom home near downtown, appliances, parking, available from March 1 to Aug. 31, 2002, \$1,200 a month inclusive, 763-4102 or gary.pundsack@engleec.com.

Three-bedroom semi-detached home in downtown area, 2½ baths, parking, laundry, no dogs, available immediately, \$1,150 a month inclusive, 822-2539.

Furnished executive two-bedroom condo in historical building in Guelph, two baths, ensuite laundry, parking, available Feb. 1, \$1,500 a month inclusive, Carol, 823-1857, 731-1857 or intelrent@hotmail.com.

AVAILABLE

Guitar lessons for students six and older, sight reading and preparation for RCM exams, located near campus, reasonable rates, Wilma or Bob, 821-9345.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Submit items to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or send e-mail to Lgraham@exec.uoguelph.ca.

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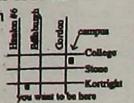
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E V E N T S

ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Jan. 20 with "Winter Weeds" and Jan. 27 with "Snowshoe Trek." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 is suggested.

Naturalist Chris Earley presents a workshop on owls Jan. 30 from 9 a.m. to 5 p.m., to be followed by an "owl prow!" from 6:30 to 9:30 p.m. Cost is \$65. Registration and payment are required by Jan. 23.

Horticulturist Henry Kock leads a workshop on "Gardening From a Natural Perspective" Feb. 13 or 14 from 1 to 4 p.m. Cost is \$20. Registration and payment are due Feb. 1.

The Arboretum's Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays from Feb. 2 to April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

Madéraz Latin Music presents a Latin fiesta for children Feb. 5 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5 and are available at the Arboretum or at Simply Wonderful.

ATHLETICS

U of G hosts the Guelph Open wrestling meet Jan. 19 beginning at 9 a.m.

The women's hockey Gryphons are at home to Windsor Jan. 20 at 5:30 p.m., Brock Jan. 30 at 7:30 p.m. and York Feb. 2 at 2 p.m. The men's team hosts York Jan. 20 at 2 p.m. and Western Jan. 21 at 7:30 p.m.

The women's indoor hockey team holds an exhibition game Jan. 20 at 9 a.m. and hosts a tournament Feb. 2 and 3.

The men's volleyball team is at home to Waterloo Jan. 23 at 8 p.m. and Western Jan. 26 at 3 p.m. The women's team hosts Waterloo Jan. 23 and Brock Jan. 30, with both games at 6 p.m.

Western comes to campus Jan. 30 to take on the women's basketball team at 6 p.m. and the men's at 8 p.m.

COLLOQUIUM

The College Faculty of Environmental Design and Rural Development presents George Woodwell, founder, president and director of the Woods Hole Research Center, discussing "Security and Insecurity in a Terrified World" Jan. 22 at 7 p.m. in OVC 1714.

CONCERTS

The Thursday noon-hour concert series opens Jan. 24 with pianist Timothy Minthorn. The Jan. 31 concert will feature Michael Wood on vibes and Kevin Muir on bass. The concerts are held in MacKinnon 107.

FORUM

The School of Languages and Literatures Forum presents Prof. Ruediger Mueller discussing "Arthur Schnitzler's *Der Reigen*: Sex, Love and Prostitution" Jan. 31 at 4 p.m. in the University Club on UC Level 5.

LECTURES

The winter session of Third Age Learning-Guelph's lecture series for retired people begins Jan. 16 with Prof. K.C. Tan, Geography, discussing "China—Its Place in the World" at 10 a.m. and Prof. Farokh Afshar, Rural Planning and Development, on "In the Real World—Education for Global Citizens: The Example of Rural Planning and Development" at 1:30 p.m. On Jan. 30, Steve Endicott presents "Korean War: China's First Encounter With the U.S.A." at 10 a.m., and Prof. David Douglas, Rural Planning and Development, considers "Sustaining the Rural Community Economy: Opportunities and Challenges in Development Process and Practice in a Changing World" at 1:30 p.m. On Jan. 31, Prof. Ron Stoltz, Landscape Architecture, examines "Reclaiming Community Design" at 10 a.m. Lectures are at the Arboretum Centre.

NOTICES

The 2002 University/College Job Fair sponsored by Partnerships for Employment runs Feb. 6 from 10 a.m. to 3:30 p.m. at RIM Park in Kitchener-Waterloo. Students in all disciplines and semesters are welcome to network with more than 125 North American employers from diverse sectors. An employer guidebook will be available from Career Services Jan. 30. Admission to the fair is free with student/alumni ID. For more information, visit the Web site www.partners4employment.ca.

The Summer Language Bursary Program offers students an opportunity to learn their second official language during a five-week session this summer. Application deadline is Feb. 15. For information, call 1-877-866-4242 or visit the Web site www.cmec.ca/olp.

The Guelph chapter of Sigma Xi, the Scientific Research Society, is calling for nominations for its annual D.G. Ingram and H.S. Armstrong awards, which recognize excellence in PhD and M.Sc. theses, and its Support of Research Award, honouring a person who has made a significant contribution to research in a supportive role. Nominations must be made by chairs or directors by Jan. 31 to Prof. David Noakes, Zoology.

The YMCA-YWCA of Guelph is calling for nominations for its 2002 Women of Distinction Awards. Nomination deadline is Jan. 31. The awards will be presented May 16 at the River Run Centre. For nomination forms, call 824-5150 or visit the Web site www.guelph.ycym.org.

The U of G/OMAFRA research program invites submissions for new research proposals from faculty and college researchers. Proposals are especially encouraged from those who have not participated in the U of G/OMAFRA agreement in the past. Proposals must be submitted in a specific format by Jan. 31. For the format and information, call 826-3809 or visit the Web site www.uoguelph.ca/Research (click on "Bulletin Board").

U of G's Multi-Faith Resource Team will host a discussion of "Spiritual Passion: Religion as Matrix of War and Peace" Jan. 31 from 7:30 to 9:30 p.m. in UC 103. Everyone is welcome. For more information, send e-mail to edenhaan@uoguelph.ca.

The Stress Management and High Performance Clinic is again offering classes in "Relaxation and Stress Management Skills" beginning Jan. 29. Classes run Tuesdays and Thursdays for six weeks. Cost is \$40 for U of G students, \$60 for USWA Staff Union members and \$120 for community members. The clinic is also offering a five-session "Better Sleep Program" Fridays at noon in UC 390, beginning Jan. 18. Cost is \$20 for U of G students, \$50 for others. Registration forms at available at the UC Info Desk. For more information, leave a message at Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

Gryphons Toastmasters meets every Wednesday from 7:15 to 8:15 a.m. in the Johnston Hall boardroom. The meetings give participants an opportunity to improve their speaking skills and boost their confidence about speaking to an audience. All students, faculty and staff are invited to attend. Enter Johnston Hall at the southernmost front door and follow the signs. For more information, send e-mail to cdevery@uoguelph.ca.

The Association of Universities and Colleges of Canada, which administers the Canada-Latin America-Caribbean research exchange grants for the International Development Research Centre, is calling for applications for the program by Feb. 8. Guidelines are available on the Web at www.aucc.ca/en/international/guidelines/lacrege02.pdf. For more information, send e-mail to jjalagh@aucc.ca.

Applications are now being accepted for international field studies grants to provide support for up to five Guelph students to complement their studies with a global and cross-cultural experience. Senior undergraduates and graduate students are eligible for the awards. Application forms are available from the InfoCentre in the Centre for International Programs in Day Hall. Deadline is Feb. 8.

Brock University is calling for papers for the second biennial conference on "Image and Imagery," to be held

Oct. 16 to 18. Focusing on "Frames, Borders, Limits," the conference will be a multidisciplinary exploration of the intersection or interdependence of the visual, textual and oral/aural modes of expression in the arts. Abstracts should be limited to 200 words and submitted by Feb. 28 to imago@www.brocku.ca.

During the winter semester, the McLaughlin Library and the OVC Learning Commons are open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends and holidays. Hours will be extended during the exam period in April.

SEMINARS

The Department of Microbiology graduate student seminar series presents Cory Wenzel explaining "Strategies for the Identification of Virulence-Associated Genes" Jan. 18. On Jan. 25, Emilisa Fridrich considers "Type III Secretion: Check It Out." On Feb. 1, Jeff Hodgson discusses "Targeting Chitin With Enhanced Chitinase Expressing Baculoviruses to Manage Spruce Budworm (*Choristoneura fumiferana*) Outbreaks." The seminars begin at noon in Food Science 128.

The Department of Zoology's winter seminar series kicks off Jan. 25 with Prof. Gordon Hines, Mathematics and Statistics, discussing "Making Good Use of Bio-Telemetric Data in Home Range Determinations" at 3:30 p.m. in Axelrod 265A.

SYMPOSIA

The Department of Human Biology and Nutritional Sciences hosts the symposium "Living Smart for a Healthy Heart" Jan. 26 from 10 a.m. to 6 p.m. at OVC. For more details, call Melissa Dejesus, Ext. 73230.

"Caring for the Environment" is the focus of the eighth annual Environmental Symposium Feb. 2 from 9 a.m. to 4:30 p.m. Registration for the event will be in Thornbrough 1200. Tickets are \$6 at the door. Everyone is welcome.

THESIS DEFENCES

The final examination of Lorne Owen, a PhD candidate in the Department of Rural Extension Studies, is Jan. 16 at 8:30 a.m. in Animal Science and Nutrition 141. The thesis is "A Theoretical Framework for Examining Multi-Stakeholder (Group) Conflicts Over Agriculture Resource Use and Farming Practices." The adviser is Prof. Mark Waldron.

The final examination of M.Sc. candidate Samantha Luk, Psychology, is Jan. 16 at 2 p.m. in MacKinnon 132. The thesis is "Automatic Processing and Phonological Activation in Reading Chinese: Evidence From the Stroop Effect." The adviser is Prof. Harvey Marmorek.

TEACHING SUPPORT

Teaching Support Services (TSS) is launching the Universal Instructional Design project, which will provide between \$2,000 and \$20,000 in financial and design support to 10 to 15 selected course redesign and course enhancement projects. On Jan. 24 at 2 p.m., TSS hosts an information session on the project. Register online at www.tss.uoguelph.ca. For more information, visit the Web site www.tss.uoguelph.ca/uid/uid.html or contact Aldo Caputo at Ext. 2936 or acaputo@uoguelph.ca.

WORKSHOPS

Computing and Communications Services is offering workshops for graduate students this winter. Upcoming sessions include "Getting Around Excel" and "Intro to SPSS" Jan. 17, "Intermediate Stats Analysis in SPSS 10—Means Comparisons" Jan. 18, "PowerPoint" Jan. 21, "PROC REG/PROC CORR" Jan. 22, "PROC GLM/Mixed" Jan. 23 and "SAS Graph" Jan. 24. Detailed descriptions are available on the Web at www.uoguelph.ca/ccs. Registration is required.

COMMUNITY EVENTS

The Guelph and Wellington County Master Gardeners present "Growing Concerns... A 'How to' Series" Jan. 30 and Feb. 6 from 7:30 to 9 p.m. at the Guelph Turfgrass Institute on Victoria Road. Topics are "Birds, Butterflies, Honeybees and Hummers" Jan. 30 and "The Art and Science of Lawn Care" Feb. 6. Admission is \$7 for one night or \$10 for both. Register at 763-0650.

The Waterloo-Wellington Wildflower Society meets Jan. 16 at 7:30 p.m. at the Arboretum Centre. Prof. Glen Lumis, Plant Agriculture, will discuss "Landscaping With Native Trees." Everyone is welcome.

Guelph Little Theatre presents the comedy *Five Women Wearing the Same Dress* by Alan Ball for 10 performances Jan. 24 to Feb. 9. Recommended for mature audiences. For ticket information, call 821-0270.

The Canadian Federation of University Women will hold an open meeting Jan. 22 at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd. W. Guest speaker Kim Anderson, a Cree/Métis writer and educator, will discuss "Native Women: Image and Identity."

The second performance in the Elora Festival Singers' Soup Concert Series features choral works by Bach Jan. 20 at St. John's Church in Elora. The event begins with lunch at 1:30 p.m. To order tickets, call 846-9694.

The annual meeting of the Wellington County branch of the Ontario Genealogical Society is Jan. 22 at 7 p.m. at the Unitarian Church, 122 Harris St.