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SWEET ON TOMATOES

Food scientists John Shi, left, and Marc Le Maguer serve up a tray of tomatoes preserved by a new sugar-based food dehydration technique they're developing. See story on page 5. PHOTO BY MARTIN SCHWALBE

Historic Changes Steer Guelph Towards Future

Restructuring marks most significant change in U of G's college structure in almost 30 years

SENATE MADE HISTORY this month. At its Jan. 13 meeting, the academic governing body overwhelmingly approved the amalgamation of the College of Family and Consumer Studies and College of Social Science into a new College of Social and Applied Human Sciences. The move, which takes effect May 1, 1998, marks the most significant change in Guelph's college structure since 1970, when Wellington College was dismantled and several new colleges, including CSS, were created.

FACS and CSS weren't the only colleges adding a chapter to the history books at Senate — OAC wrote a few new pages of its own. Effective Feb. 1, the Department of Crop Science, the Department of Horticultural Science and the Horticultural Research Institute of Ontario will merge to become the Department of Plant Agriculture. That day will also mark the formation of a College Faculty of Environmental Design and Rural Development that amalgamates three schools — Rural Planning and Development, Landscape Architecture and Rural Extension Studies. (See stories on page 2.)

Hand in hand with the decision to create the College of Social and Applied Human Sciences, senators approved the establishment of a University Faculty of Management. It will bring together the management activities in hotel and food administration, housing and real estate management, management economics in industry and finance, marketing management and agricultural business in a cross-University collaboration for education and research.

President Mordechai Rozanski lauded senators for the thoughtful decision making that led up to these historic changes. "There's something remarkable about this university that distinguishes it from any other in the way things are done here," he said. "We may take longer, but we study the issues harder, consult extensively and get more accomplished. I am very proud to be a member of this Senate and University."

The changes flow in part from the recommendations outlined in U of G's strategic plan in 1995 and build on similar restructuring in other colleges — three mergers last year in the College of Arts and two earlier mergers in OVC and CBS.

"The primary goal of this reshaping is to establish structures and programs for the long term that will attract strong enrolment, quality faculty, new opportunities and increasing research dollars," Rozanski told *At Guelph*. "It is also important, after the sweeping government cuts and faculty reductions of the 1990s, to minimize the resources drawn off for academic administration and release more faculty to the classroom and lab, where they're needed."

Provost Iain Campbell notes that, through this reshaping, "Guelph has effectively reduced the number of departments by eight, inventing exciting new structures — schools and faculties — in the process, and has established a new college of considerable potential. And this has been done in a remarkably positive spirit. We can congratulate ourselves. We have shown government and taxpayers that we have the courage and the imagination to reconfigure. We don't just debate, we act. We have demonstrated that we merit the reinvestment that the government has inexplicably delayed."

The proposal to amalgamate FACS and CSS, presented to Senate by its Committee on University Planning (SCUP), was the result of 16 months of discussions with faculty, staff, students and alumni in FACS and CSS. The discussion began in 1996 when Rozanski and Campbell challenged the two colleges to redefine themselves to meet the needs of a radically changing world in a new century.

A number of options were considered, but it was amalgamation that emerged as the most viable route to the future, said FACS dean Michael Nightingale, who, along with CSS dean David Knight, rose at Senate to offer strong support for the SCUP proposal.

The deans described for senators the lengthy and wide-ranging consultation process that took place in each of their colleges. This included many meetings of faculty, staff, students and alumni, as well as several rounds of review and revision of a document prepared by department chairs in the joint dean's councils. "We had tremendous input from all segments of the two communities," Knight said.

Continued on page 3

Putting the Byte on the Year 2000

U of G committee takes steps to avoid computer crash of the century

NO ONE REALLY KNOWS what the turn of the century will bring, but the millennium bug has computer specialists around the world planning how they'll spend New Year's Eve 1999.

According to the worst-case scenario, when the year 2000 (Y2K) ticks around, date-sensitive computer systems not programmed to enter the new millennium could completely shut down, including air-traffic control systems, medical equipment, fax machines, telephones and automatic banking machines. Many large organizations have already spent several years and millions of dollars ensuring that their systems are Y2K-compatible.

Doug Blain, manager of U of G's Computer Centre in Computing and Communications Services and chair of the campus Year 2000 Committee, has been studying the implications of Y2K since 1995. In 1997, at the request of provost Iain Campbell, chair of the Information Technology Strategy Committee, Blain was asked to chair a committee made up of members from across campus to help him analyse the impact of Y2K

on U of G systems.

The arrival of Y2K poses a number of significant challenges for computing systems at Guelph, as well as for the processes and practices that depend on them, says Blain. That's because in the early days of computing, to save programming space, only a two-digit field was used to indicate the year. Older mainframe systems do not recognize a four-digit year.

"This didn't seem to be a problem in the 1960s when many of these systems were first built, but on New Year's Day 2000, without a millennium solution, computers could turn over to '00" and assume that it's 1900," says Blain. "The implications for computing systems are enormous."

He's confident, however, that Guelph will ring in the new century with all its systems intact.

Blain and his Year 2000 Committee have been conducting inventories to assess the Y2K compatibility of campus systems. Ron Elmslie, director of CCS, is assessing the Y2K impact on personal computers throughout the University, the cen-

tralized facilities that host applications such as financial, registrar and the Web, as well as network services and telephone systems. Garry Round, executive director of facilities and hospitality services, is assessing heating and cooling systems, power, elevator controls, alarms, lighting and other systems that support buildings and services.

Blain notes that, unlike large financial institutions such as banks, U of G does not depend on large COBOL programs and has been moving away from mainframes in recent years. Major critical systems such as student information, human resources and financial have been replaced — or are being replaced — to provide the functionality required, as well as being Y2K-compliant. Guelph has also adopted the strategy of buying packages rather than writing its own programs, he says.

Over the next 18 months, the Year 2000 Committee will advise faculty, staff and students of progress and ongoing issues through columns in *At Guelph* and a Y2K Web site. For more information about the project, call Blain at Ext. 6475.

Plant Department Takes Root in OAC

Collaborative teaching, research to bloom under new partnership of horticultural science, crop science, HRIO

A VITAL PARTNERSHIP will be created as the departments of Horticultural Science and Crop Science and the Horticultural Research Institute of Ontario (HRIO) become known as the Department of Plant Agriculture Feb. 1.

Designed to strengthen the existing disciplines and provide new opportunities for co-operation in research and teaching, the department will have four divisions — horticultural science, crop science, plant biotechnology and the HRIO (part of the University's enhanced partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs).

"By creating a department with complementary interests, we can get more people working together," says Prof. Tom Michaels, acting dean of OAC. "The amalgamation means there will be more collaborative research in the future. It's an exciting time, and I'd like us to build on camaraderie and increase the synergy."

Michael says the mission of the new department — "discovery, application and instruction focused on improving crop and horticultural plant agriculture" — is critical to its success. In particular, the new

division of plant biotechnology, which has broad applications in the crop and horticultural sciences, will benefit from a collaborative approach.

"The amalgamation will increase the visibility both on and off campus of plant biotechnology as an academic discipline and as a research strength within the University," he says.

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The new department's emphasis on collaboration is extolled by both the existing department chairs and the HRIO director.

"The strongest reason for creating the merger was to bring together a critical mass of plant scientists, particularly in biotechnology, so they could work together, share facilities, share expensive equipment, share ideas and create improvements that all of plant agriculture can use," says Prof. Dave Hume, present chair of

the Department of Crop Science.

"It represents a great opportunity for horticulture," says Prof. Alan Sullivan, chair of the Department of Horticultural Science. "It's going to bring us closer to the HRIO and create a good blend of applied and basic research. It will help co-ordinate horticultural research across Ontario."

"The HRIO's traditional role of applied research and services will be

culture will be governed by a chair and advisory executive committee.

Relocation of departmental members to a renovated and expanded facility will occur in the near future. Faculty and staff on campus will be housed in a connected Crop Science/Richards Building with renovated and expanded research facilities and in the Bovey complex. Off campus, existing HRIO facilities will

exposed to a broader range of applied and basic research.

Hume adds that the new department is "no small potatoes." There are currently 48 faculty, 90 graduate students, a total of more than 250 employees, more than \$10 million a year in research grants and contracts, research at six different stations and a responsibility to provide leadership in an industry in Ontario worth more than \$7 billion annually.

Eady notes that HRIO research scientists and Guelph faculty have enjoyed an ongoing relationship for many years and that a number of graduate students have done research at HRIO facilities over the years. "The new department will result in an increase in graduate student activity at HRIO facilities, and this is one of the many positive outcomes that we anticipate," he says.

The presence of the HRIO in the department will increase opportunities for collaborative research on specific commodity crops. The HRIO station at Vineland has access to the tender fruit growing area, and the muck research station at Bradford will provide an opportunity to work on muck soils and crops.

BY MARGARET BOYD

The Ties That Bind

New college faculty draws on common interests in environmental design and rural development

THE NEW College Faculty of Environmental Design and Rural Development, to be officially recognized Feb. 1, will bring together three academic units at U of G with similar interests.

The amalgamation of the University School of Rural Planning and Development (to become the School of Rural Planning and Development), the School of Landscape Architecture and the Department of Rural Extension Studies (to become the School of Rural Extension Studies) into one new college faculty will reduce administrative costs, improve efficiency and provide collaborative opportunities for education and research.

The new college faculty will be governed by an executive council composed of the directors of the three schools and an executive director, to be selected from the current directors. The executive director will report to OAC dean Rob McLaughlin.

Two of the schools — Rural Planning and Development and Landscape Architecture — are accredited professional programs; the School of Rural Extension Studies is seeking formal accreditation from the Canadian Society of Extension.

Prof. Jim Taylor, director of landscape architecture, says the restructuring is "very opportune" because it positions University offerings in

planning, landscape architecture and related community development areas within a faculty structure. "This is consistent with other universities in Canada, including Calgary, Waterloo and York, and will be beneficial in attracting students and research support. The University of Toronto is also developing a proposal to form a faculty including architecture, landscape architecture and urban design."

Taylor believes the amalgamation strengthens the schools in a number of ways. "It will provide a focus area for rural communities within OAC and it will increase collaboration among the faculty and graduate students."

Prof. John FitzGibbon, director

of rural planning and development, notes that the three academic units have a strong mandate for outreach to the community and for applied research. "There will be a lot more joint proposals regarding research and community outreach," he says.

The next step is to formalize a collaborative approach, says Prof. Doug Pletsch, director of rural extension studies. "I see it as the real reason for coming together."

Geographically, the schools of Rural Planning and Development and Rural Extension Studies are now located in Johnston Hall. There are no plans to move the School of Landscape Architecture from its current location.

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IN MEMORIAM

Retired U of G Spanish studies professor **Miriam Adelstein** died Dec. 20. She taught Spanish language and South American literature in the former Department of Languages and Literatures from 1970 until her retirement in April 1992. She is survived by her husband, Ansel, and two daughters, Ana and Ricky.

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ALUMNI NOMINEES SOUGHT FOR AWARDS

The U of G Alumni Association invites nominations for its 1998 awards of excellence. The Alumnus of Honor award recognizes a graduate who has brought great honor to the University through professional, community and personal endeavors. The Alumni Medal of Achievement honors a graduate of the last 15 years who has achieved excellence through contributions to country, community, profession or the world of arts and letters. The Alumni Volunteer Award goes to a graduate who has demonstrated loyalty and commitment to Guelph through volunteer work. The nomination deadline is Feb. 27. For more information, call Carla Bradshaw at Alumni House, Ext. 6533.

CBS TO HONOR TEACHING EXCELLENCE

The College of Biological Science seeks nominations from the University community for its annual Award for Excellence in Teaching. Individuals or groups may be nominated for outstanding performance in such areas as undergraduate classroom instruction, graduate teaching, curriculum development and development of innovative teaching methods. Nomination forms are available from department chairs in CBS and should be submitted to dean Robert Sheath by the first week of March.

B OF G SEEKS STUDENT MEMBERS FOR 1998/99

Board of Governors is calling for nominations to elect one graduate student and two undergraduates to the board for a one-year term that runs from July 1, 1998, to June 30, 1999. All full- and part-time students are eligible, provided they are currently registered and will be re-registered for two of three semesters during the term of office. Nominations must be submitted by Feb. 13 at 4 p.m. to the Board Secretariat on Level 4 of the University Centre. Election of the undergraduate students will be held in conjunction with the Central Student Association elections March 2 to 4. The graduate student will be elected by mail ballot. Nomination forms are available from the offices of college deans, the Connection Desk, Info Desk, Graduate Students' Association and Board Secretariat.

THREE NAMED TO BOARD

The George Morris Centre has appointed three new members to its board of directors. They are Ray Price, president of Trochu Meats Ltd., Acme, Alta.; Paul Sneddon, president and CEO of H.J. Heinz Company of Canada Ltd., Toronto; and John Schroeder, president of Valleybrook Gardens Ltd., Abbotsford, B.C.

FACS, CSS Join Forces

Amalgamation positions new college to become powerful academic force

CHANGE IS NOTHING NEW for the College of Family and Consumer Studies and the College of Social Science. They both have a history of change leading to progress.

The programs and academic units in FACS, for example, are much different from those established at the Macdonald Institute in 1903, when the focus was on household science, or in 1969, when the institute evolved into FACS. Likewise, CSS grew out of the former Wellington College, which itself was established by drawing faculty and departments from the founding colleges.

President Mordechai Rozanski acknowledges that change of this magnitude requires a true team effort, and he hails the efforts leading up to the amalgamation. "I congratulate everyone involved — deans, chairs, faculty, staff, students, alumni and the provost — for the leadership and innovation they have demonstrated."

When FACS and CSS amalgamate this May 1 to become the College of Social and Applied Human Sciences, it will mark the end of an era at Guelph, but more important, it will mark a beginning, says Prof. Iain Campbell, provost and vice-president (academic). "Everything up to now has been before the beginning. The new college will create one stronger unit that can build on the scholarship and energy of both its partners."

Campbell says the move is a means of positioning the University and building on its strengths for the long term. "We currently have a public image in which agrifood, veterinary medicine and our very strong science programs play a large part. We also have great strength in the behavioral and social sciences, but they've been in two colleges and therefore divided. It was time to

remove the walls between them."

With the walls gone, "we now have a new entity that spans an impressive range of scholarship in the human and social sciences and their applications," he says. "There is a wide range of possibilities for collaboration within the colleges in teaching and research and significant potential to attract new research funding through the development of ideas from people drawn from the various disciplines. There is also a major possibility of developing innovative teaching ventures. This will give the college the potential to become a powerful academic force and a major player in shaping public policy and services in Ontario and Canada."

At the same time, the amalgamation will streamline administration of the two colleges, resulting in budget savings down the road and reducing the division of faculty energy into committee work and administration, says Campbell. Most important, it will provide an innovative academic platform to attract new funding and support for its teaching, research and applied programs, he says.

CSS dean David Knight and FACS dean Michael Nightingale share Campbell's enthusiasm about the potential of the new college. Says Knight: "It gives U of G a critical mass of faculty and students working in the human sciences with a very strong tradition for excellent basic and applied research and service to society." Adds Nightingale: "What I see is a better future for the things FACS is concerned with inside the new college structure than with the status quo."

FACS now offers interdisciplinary programs in health, family studies, hotel and food administration and business. Nightingale, who will serve as interim dean of the new college

until a new dean is chosen, says there are obvious benefits to be gained from a closer link with the base disciplines of sociology and anthropology, psychology, economics, geography, political science and international development studies.

"We've seen closer links developing in these fields outside the University," he says. "Industry and government, for example, are both recognizing that social, economic and political issues have to be dealt with together if we are to find the solutions that will lead to improvements in society. As academics, we should be on the leading edge of such changes."

All academic units and existing degree programs will continue in their present form in the new college, but removing the administrative walls will increase student mobility and make interdisciplinary study much easier, says Knight. Increased collaboration among faculty will also enhance the quality of teaching. It may ultimately generate new programs that will be more responsive to societal needs and better prepare students for the workplace, he says.

Campbell pays tribute to Nightingale and Knight for their roles in the college restructuring process. "It's a remarkable aspect of Guelph that two successful deans were willing to work through a process at the end of which their present positions would no longer exist. I can't commend them enough for their commitment to the University."

Campbell also has words of praise for SCUP. "Over the last couple of years, SCUP has played a major role in the development of all restructuring proposals and has displayed creativity and flexibility throughout. The committee deserves strong commendation from the University."

New College to Build on Heritage, Existing Success

Continued from page 1

That input did, of course, include some opposition to amalgamation from both sides. In FACS, which has three academic units and 45 faculty, compared with five departments and 92 faculty in CSS, "there was a natural anxiety about joining with a larger organization, a fear of losing some of our traditions and cultures," said Nightingale. During discussions, however, it became apparent "that we had assumed things about each other that just weren't true. The differences between us were far less than we imagined." And the opportunities for collaboration were even greater than envisioned.

The final proposal that went to Senate was a complete rewrite of earlier documents, taking into account the extensive feedback from the University community. In the proposal, SCUP says the creation of a new college is based on a "common desire to develop a strong, vibrant and progressive academic community that is distinctive in its scope and responsive to a range of pressing societal needs." Its mission is to stake out a leadership role in Canada as an innovative and unique college.

Building on the strong heritage, traditions and existing success of individual programs and units, the new college will create a synergy of collaborative and interdisciplinary research and teaching in the social, applied human and management sciences, and will open up many new learning opportunities for students, said SCUP. The college will provide contemporary programs designed to improve the health, economic and social well-being of individuals, families, communities and organizations and provide a better understanding of human behavior. This will allow the University to contribute to public policy and service in meaningful ways, SCUP said.

Prof. Constance Rooke, associate vice-president (academic), told Senate she was excited about the impact the new college and increased collaboration among its disciplines could have on society. "We have a number of huge social problems that have not been adequately addressed by the academy," she said. "There is a tremendous opportunity for some very positive change."

Rooke was one of a number of

senators who stood at Senate to throw their support behind the proposal. Prof. Michael Matthews, chair of the Department of Psychology, noted that college structures tend to create fences rather than bridges.

"This grouping brings together people more alike than any others on campus, people with similar research needs, methodologies and research goals," he said. "It will allow us to refocus in a more meaningful way to deliver the things we're supposed to be delivering."

The biggest bonus, he said, is the external visibility the amalgamation will bring to the new college. "It will add a new dimension to our respect."

Alumni senator Harold Whiteside, who served as president of the U of G Alumni Association last year, said the amalgamation proposal had at first raised concerns among Mac-FACS and CSS graduates, who currently represent more than 30 per cent of living alumni. "They wondered if they were losing their past," he said. "But once the discussions moved from history and began looking at the present and future opportunities, a recognition of the realities

PEOPLE

WRITER-IN-RESIDENCE WINS PRIZE FOR NOVEL

Renowned Canadian novelist Austin Clarke, writer-in-residence in Guelph's School of Literatures and Performance Studies in English since September, is the first recipient of the Rogers Communication Writer's Trust Fiction Prize. Clarke received the \$10,000 prize for his most recent novel, *The Origin of Waves*, which judges called "a hypnotic story of friendship and love."

PSYCHOLOGIST HOLDS VISITING PROFESSORSHIP

Professor emeritus John Hundleby, Psychology, held the 1997 Stanley Knowles Distinguished Visiting Professorship at Brandon University during the fall semester. While there, he gave public lectures on "The Development of Delinquency: Long-Term Studies on the Prediction of Anti-Social Careers," "Seeing is Believing: Body Image, Size Estimation and Eating Disorders" and "The 'Turnarounds': Adolescents at Risk Who Leave an Anti-Social Lifestyle."

CBS HONORS STUDENTS

The College of Biological Science recently announced the recipients of its annual graduate scholarships. John Neville received the Roy Anderson Award, Elgin Card Award and Arthur Richmond Memorial Scholarship. The Richmond Scholarship was also awarded to Tracy Burton. Winner of the Arthur D. Latorell Award was Eden Thurston. The Norman James Award went to Andrea Cox. Alison Sherwood received the Isaac Walton Fly Fishing Award.

and the potential for the two colleges emerged. Senate's alumni caucus wholeheartedly supports the proposal."

Two senators — Prof. Bill Christian, Political Science, and Prof. John Liefeld, Consumer Studies — expressed opposition to both the amalgamation proposal and the consultation process. Liefeld said the amalgamation would lessen the distinctiveness of the University and would not create the synergies SCUP expected to emerge. "You can't create synergies; people create synergies," he said. "Structure has nothing to do with synergy."

Prof. Leon Kuczynski, Family Studies, asked for assurances that the amalgamation would not result "in a massive college with continuing non-interaction between departments. We need to put some process into place beyond the abstract; otherwise the new college will pay lip-service to synergy and go about its habitual ways."

Campbell immediately rose to say: "I will make the commitment now. We must be vigilant in making sure that this is done."

ONTARIO UNIVERSITIES MAKE GOOD CASE FOR EXTRA FUNDING

"If knowledge is the economic battleground of the 21st century, as it surely is, then Ontario has unilaterally disarmed itself."

BY IAN URQUHART

Editor's note: This opinion piece by Toronto Star provincial affairs columnist Ian Urquhart appeared in the Jan. 13 issue of The Star. It is reprinted with permission from The Toronto Star Syndicate.

THIS IS THE SEASON during which various institutions that depend on public funding — hospitals, schools, municipalities and so on — press the provincial government for more money.

The budget is still four months away, but decisions on discretionary spending will be made long before then, so the lobbying has already begun.

Among those applying the pressure are Ontario's 17 universities. They make a very good case.

By any measure, our universities are underfunded, particularly since the Tories took office in 1995 and proceeded to cut \$400 million from university operating grants. Ontario's per-capita expenditure on university education is now the lowest in Canada.

Comparisons with the United States are even more stark. Take, for example, the University of Toronto, our leading postsecondary institution. A comparison with two dozen of the top-ranked public universities in the United States shows that U of T's per-student expenditure is second lowest, ahead of only the University of Nebraska. U of T is more than \$20,000 US per student behind UCLA and Michigan.

If knowledge is the economic battleground of the 21st century, as it surely is, then Ontario has unilaterally disarmed itself.

Meanwhile, tuition fees have been rising sharply. While revenues from the fees have partially offset the cutback in the grants, the total amount spent per student is still on the decline.

"It's just not fair to ask our students to pay more for less," said U of T president Rob Prichard in a recent interview.

As chair of the Council of Ontario Universities, Prichard is leading the campaign for restoration of the government grants to get Ontario at least back to the national average in per-capita expenditures on universities. "And it's not that expensive," he said. "It's amazing — \$500 million gets it."

Put Prichard is politically astute enough to recognize that universities can't just demand a no-strings-attached \$500-million increase in their operating grant. In this fiscally conservative world, said Prichard, "they (the government) are going to want to do it strategically and they're going to want to see, if we invest \$500 million in this, what do we get?"

Accordingly, the universities are proposing a series of spe-



cific measures that would bring immediate results.

It is known as "the Queen's proposal" because it is contained in a Dec. 16 letter to the government from Queen's University principal Bill Leggett. It proposes new spending on recruitment of outstanding faculty; renovation and repair of existing facilities; rewards for outstanding research performance; support for information technology, including the digitalization of university libraries; and expansion of existing programs in subject areas where universities can't keep up with the demand.

(On this last point, Prichard gave an example. Demand has so outstripped supply for electrical engineering at U of T that it now takes a 91-per-cent average to get into the program. Last year, he fielded a complaint from an MPP whose daughter was denied entry with an 89-per-cent average.)

Prichard and several other university heads pitched the Queen's proposal to Education Minister Dave Johnson at a meeting at Queen's Park Dec. 22. Johnson was attentive but non-committal. They agreed to meet again soon.

What gives the universities reason to hope is Premier Mike Harris's speech Nov. 19 to a conference on the future of Ontario's universities.

At the time the speech was delivered, it was widely deplored — for the wrong reasons. In an early draft, which was circulated among the press, Harris questioned the relevancy of university education in general and, in particular, subjects like geography and sociology. Press accounts of the speech focused on this line and prompted accusations of philistinism to be aimed at Harris.

In fact, Harris never actually uttered those words in the speech he gave to the conference. What he did say is that Ontario's universities "must be among the best in the world." And he defended theoretical research as "absolutely crucial to our ability to lead and excel in the race for the new ideas of the next century."

The university presidents liked the speech so much that Leggett quoted liberally from it in his letter. It was a not-so-subtle way of increasing the pressure for more money.

While the universities may have Harris on their side, at least rhetorically, they do not have the sort of access to the media that municipalities enjoy. (See Mel Lastman.)

But they do have other powerful allies, including big business, which is usually leery of proposals to increase government spending, but has a soft

spot for universities. Indeed, the likes of multimillionaire financier Hal Jackman, Scotiabank chair Peter Godsoe and Royal Bank chair John Cleghorn are all chancellors of universities (respectively, U of T, Western and Wilfrid Laurier).

The chancellors are currently drafting a joint letter to the premier that is said to endorse a hike in funding.

Getting in the universities' way, however, is their own disunity. They are roughly divided into two groups — the elite six (U of T, Queen's, Western, McMaster, Waterloo and Guelph) and the remaining 11. The two sides are intensely suspicious of each other and often lobby at cross-purposes, with the result that nobody gets anything.

But if they stick together, the universities may get somewhere this winter. Their timing is felicitous as the government is looking for ways to soften its image.

The government's new mission statement, expressed by Harris in his Nov. 19 speech, is "to make our province the best jurisdiction in North America to live, work, invest and raise a family." What better way to start than by investing in our universities?



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THE ICE STORM COMETH

Warm hearts and kind deeds help to melt the adversity at Kemptville and Alfred colleges

BY ALEXANDER WOOLEY

This issue's profile is not of a person, but a newsmaker of a different sort -- the ice storms of early January.

THE ICE STORMS of '98 may be over, but for the people at U of G's partner colleges in eastern Ontario — Kemptville and Alfred — their experiences are frozen in time.

At both campuses, the most visible scars of the disaster are the destroyed trees. "After the initial ice storms, it looked like Bosnia without the bullets," says Bill Curnoe, director of Kemptville. "Then when the soldiers arrived to help, it really did look like Bosnia."

Curnoe likens it to landscape scenes from the First World War. "The trees looked as if they had been shelled by artillery. These weren't little branches broken off; it was good-sized trees split at the trunk."

Every member of the college has a story to tell, says associate director Ben Hawkins. One staff member had a house destroyed. Some students were still missing classes late last week to stay home and help milk the cows because their family farms did not yet have power. The college's own farm wasn't restored until Jan. 21 — a full 15 days after power was lost.

Moving east, the storm took a similar toll at Alfred College 90 kilometres away. Alfred acting director Jocelyne Sarault directed things from her rural home, where she still had a working phone, and notified staff, faculty and students of the college's closure, with the help of colleagues living near the college.

U of G set up an ice-storm telephone message hotline, which Sarault updated daily. At its peak, the hotline was receiving more than 100 calls a day from Alfred and Kemptville's students, staff, faculty and parents.

Meanwhile, Sarault was facing her own challenges at home. To obtain water, her husband had to break a hole in the ice at the bottom of their well and use a bucket to haul it up. A fireplace provided them with heat, but in their open-concept house, the temperature fell to 40 F anyway.

They improvised. Turned into a pioneering family overnight, Sarault and her husband used a plastic canopy that normally covers their picnic table to build a tent around the fireplace in the living room to stay warm. Despite that, they wore tuques, three layers of clothes and several layers of bedding each night.

"The most difficult part was the length of the evenings," she says. "When it gets dark at 4:30 p.m., it's dark for a long while. And what do you do without power? We read, but with mittens and by an oil lamp."

They took meals at a small restaurant nearby with its own power. "I spoke to people I will probably never see again," she says, "but at that moment in time, you are as one, and the conversations are all on a single topic."

It was 10 days before electricity was restored to Sarault's house.

Sources of power were just as elusive at Kemptville. In des-

peration, Hawkins recalled a generator used for classroom training that had been put in storage in a campus basement seven years earlier. He and his 13-year-old son rewired the generator from scratch, then hooked it up to one of the college's main distribution panels, managing to restore power to several college buildings. Later, the duo took their show on the road, transporting their precious mechanical commodity in an old truck and stopping at area houses to give them a few minutes' power each so their pipes wouldn't freeze.

"We were scrounging for anything we could get," says Hawkins. Eventually, a portable generator with heftier power arrived courtesy of a construction company in North Bay, and

headed to the disaster-stricken town.

Just back from thesis research in balmy Kenya, Evans found herself commanding a platoon whose mission, at first, was to pump water out of the basements of people's homes flooded by the storms. Later, she was in charge of setting up a warehouse that became the central distribution point for essential supplies to area shelters.

She and her platoon were not alone. "We had retired RCMP officers, schoolteachers, all coming to help us, all wanting to pitch in."

Hawkins says it was great to see the college and community coming together. "If we hadn't had the support of the community and the military, this place would still look like a war zone." About 100 soldiers were eventually on hand at Alfred, and roughly 170 were at Kemptville.

Two linked sentiments recur among the "survivors" — appreciation for the outside help received and renewed belief in the generosity and solidarity

within each community.

Not that there weren't mental strains. "We had one family begin to cry when we knocked on their door and they saw these soldiers had arrived to help," recalls Evans. "Later they gave us a thank-you card. And it was different from what you saw on TV. From the news, you don't have a sense of how bad the people are really suffering. Pictures of trees falling don't do it justice. There was this one nurse at a shelter. She was working or on call literally 24 hours a day. My soldiers would stop by and do the dishes or do some cleaning for her or something, and she would become so emotional, so grateful. It's the sort of emotions people are hiding deep down inside them."

Aware of the weight of her responsibility and the slimness of her resources, Sarault developed a short list of coping mechanisms. "As for work, I never left mentally. I was very aware of the stress that people were enduring while they were at work. A colleague was out of touch by phone, and we would worry about that. Rumors and stories float around that may be true or false but don't help matters.

What became clear is that leadership is a must, even if it is a hard thing to do under the circumstances. You really have to be patient and keep a level head. Never lose your sense of humor — being in a bad mood isn't going to make the electricity come back any quicker."

While there is still much work to be done, things move on. Evans is back at U of G studying tourism planning. Alfred College also moves forward. "Our plans and ideas and programs didn't get frozen, even if it seems everything else did," says Sarault. Curnoe musters a private thought for public consumption: "It's something I'd just as soon not live through. Or have anyone else live through."

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full power was restored to the campus.

The lights went on at Alfred on the first Saturday, but as at Kemptville, the surrounding townsfolk were still without. So both colleges were turned into shelters. Kemptville became home to 200 local residents frozen out of their homes, providing sleeping space, showers and hot meals. At Alfred, Sarault's emergency team pulled together to co-ordinate running their impromptu shelter and rendering aid in the community.

Overnight and for days following, the colleges became crossroads in diversity. At Alfred, a group of Mennonites from southwestern Ontario were billeted along with a troop of soldiers from Cape Breton. All would rise early in the morning to begin the job of clearing debris from the college grounds and throughout the area, working non-stop until evening. Electrical crews from Massachusetts reconnected wires to Sarault's home in the country, while similar crews from New Hampshire were at work in downtown Alfred. Trucks arrived daily from Caterpillar and Honda in the United States and from Manitoba, Northern Ontario and the Maritimes.

Despite disturbing evening news footage of livestock freezing to death, Hawkins credits the Ontario Ministry of Agriculture, Food and Rural Affairs for much of the organizing that brought the supply of generators to area farmers. "It could have been a lot worse," he says.

Nadine Evans, a U of G master's student in rural planning and development, found herself in Kemptville. The reason was not scholastic — Evans is also an army reserve captain in the Guelph-based 11th Field Regiment. When a call for volunteers went out early in the crisis, she was one of the first to respond, and with 65 other Guelph residents — and the blessing of her thesis supervisor, Prof. Donald Reid —

Food Preservation Sweet on Industry, Environment

Guelph researchers are the first to apply osmotic dehydration to food processing

A NEW SUGAR-BASED FOOD PRESERVATION technique could mean sweet rewards for the environment and the food industry.

Prof. Marc Le Maguer and research associate John Shi, Food Science, are developing a technique designed to bring better-tasting, more nutritious and environmentally friendly food to supermarket shelves.

The method is called superior osmotic dehydration, which draws fluid out of food by osmosis. Osmotic dehydration already existed, but the Guelph team is the first to apply it to food processing.

Here's how it works. Food is placed in a solution that is 65-per-cent sugar, 35-per-cent water. The physical reaction of osmosis naturally creates a balance between the high-sugar solution and the water-filled food. So the water comes out of the food and is replaced by mostly sugar.

Le Maguer and Shi say this process has several advantages. It doesn't use a lot of energy like the hot-air drying of conventional dehydration does. It extends shelf-life without affecting taste — like salting can — or nutrient content, texture and color — like hot-air drying.

Environmentally, it reduces energy cost for the food industry because osmosis takes place naturally at room temperature.

The Guelph osmotic dehydration project is setting out to learn how this new method can be applied to fruits, vegetables, meat and fish.

The success and broad applicability of Guelph's charter osmotic project has caught the attention of researchers and industry internationally, says Shi. The U of G team has struck a collaborative agreement with 11 universities in the EU nations and one in Israel.

To allow the exchange of views

and information among participants, Shi has set up a Web page at <http://www.uoguelph.ca/~odmlm>.

Now, the researchers are trying to find a way to use this technology in industry. "The problem in moving to the industrial scale is quantity," says Shi. "In the lab, we were dealing with a litre or two of osmotic solution. The question remaining for industry is how to reuse and recycle the solution."

Le Maguer and Shi are building a statistical model of the fluid exchange between the osmotic solution and different foods to address these questions. The dif-

ferent tissue types in fruits, vegetables, meats and fish require a specific dehydration technique for each commodity. This must be done before industry can adopt the dehydration technique.

Shi and Le Maguer presented papers on their research at conferences in Portugal this fall. Their work is sponsored by the Natural Sciences and Engineering Research Council, the Ontario Ministry of Agriculture, Food and Rural Affairs, and Agriculture and Agri-Food Canada.

BY HENDRIK KAHAR
OFFICE OF RESEARCH

Academic Partnership Links Four Campuses

Counselling Foundation of Canada grant ensures greater access to career development practitioner program for more students

THROUGH A UNIQUE PARTNERSHIP arrangement, a select number of undergraduate students from U of G, the University of Waterloo and Wilfrid Laurier University will be able to pursue baccalaureate studies at their home universities, take related courses at the other universities and earn a minor (and a certificate) in Conestoga College's career development practitioner program.

The co-operative venture was announced Dec. 9 at Conestoga College, with representatives of all four institutions in attendance.

It was also announced that the Counselling Foundation of Canada will provide \$300,000 to ensure the greatest possible access to the career development practitioner program. Two-thirds of this grant will go towards converting course materials from traditional classroom format to an online format available through the Internet. The first such course will be ready early in the new year; conversion of all 10 courses is scheduled for completion by fall 1998.

The remainder of the grant will go towards bursaries to help part-time students who are employed and wish to take the career development practitioner program.

Co-ordinated at Guelph by the Office of Open Learning, the college/university partnership and the

foundation's grant recognize that skilled, effective career development practitioners will be essential in all types of careers and employment settings in the future.

They will help Canada maintain a competitive edge by helping people anticipate, plan and adjust to ongoing

employment changes.

"The career development practitioner program is a fine example of both institutional collaboration and our ability to respond to current societal needs, be it from the point of view of the profession or the client," says Virginia Gray, director

of open learning.

Under the terms of the inter-institutional agreement, students will enrol at any one of the universities in a BA program. To take an appropriate course at another of the universities will require no special supplemental application procedures.

Students will earn the BA at their home universities and a certificate as a career development practitioner because the Conestoga program will be structured like a 10-course minor. Conestoga courses will be offered both onsite and through distance education.

Toronto the Beautiful on Show in Guelph

School of Landscape Architecture focuses on new visions for urban environments at Winterfest '98

FUTURE VISIONS of Toronto the megacity are currently on display along the corridors of the School of Landscape Architecture, and the campus community and public are invited to take in the view.

The school is playing host to an exhibit featuring winners of the 1997 City of Toronto Urban Design Awards. Established more than a decade ago, the awards are designed to foster and recognize efforts at civic improvement.

Prof. Walter Kehm, Landscape Architecture, believes the value of the awards is their relevancy. "They demonstrate to students and residents how a variety of projects achieve a high level of design excellence

through intensive public involvement and interdisciplinary work. Many of the projects on display are the result of extensive citizen involvement, which allows the completed works to be sensitively knit into their surrounding environs."

The collection of photos, plans and sketches show a Toronto that is becoming greener and friendlier. Architects, designers and planners appear to be answering a call from residents who want neighborhoods rather than concrete.

Kehm organized the exhibit, which is here until Feb. 2. "I think what's interesting is that these winning projects are very much in harmony with their surrounds, in part because the

visions in design have been extended beyond a few bureaucrats or design professionals to include diverse voices in the community who have a say at every step of the process," he says. "Revitalizing urban environments into cultural cores has become a populist movement."

The award winners are an eclectic mix of creativity and function, with projects ranging in scope from community gardens in spaces between city row houses to covering the Gardiner Expressway and using part of the roof for collecting solar power.

The awards exhibition ends with a flourish, as part of the school's 10th annual Winterfest Jan. 29 to Feb. 2.

The theme of Winterfest '98 is "The City: New Visions for Urban Environments," a topic chosen in light of the recent creation of a new City of Toronto and the provincial downsizing of services to municipalities.

Prominent Toronto landscape architect Michael Hough gives the keynote speech Jan. 29 at 6 p.m. Other weekend speakers are John Sewell, former mayor of Toronto and megacity opponent, and retired U of G philosophy professor Tom Settle.

In addition to lectures, Winterfest '98 features six workshops and an interdisciplinary charette that begins Saturday at 5 p.m. in the Landscape Architecture Pit. Everyone is welcome to attend.

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Crystal five-light chandelier with embossed scrollwork; four-light touch-control lamp, glass with gold; nine-drawer dresser with mirror and four-drawer dresser, solid dark wood; dark green night tables; shopping cart; baby stroller; portable camping toilet; balloon valances, beige with small flowers, 11 1/2 inches wide, Ext. 3044 or 821-1879.

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Two-bedroom furnished house available Feb. 1 to March 31, 10-minute walk to University, mature persons only, no pets, no smoking, \$875 a month including utilities, 822-6193.

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GRAD NEWS

The final examination of **Margo Tant**, a D.V.Sc. candidate in the Department of Pathobiology, is Feb. 5 at 1:30 p.m. in Pathobiology 101. The thesis is "Acanthocytosis and Other Hematological and Serum Biochemical Parameters in the Diagnosis of Canine Heman-giosarcoma." The adviser is Prof. Tim Lumsden.

The final examination of **Andrew Hamilton-Wright**, an M.Sc. candidate in the Department of Computing and Information Science, is Feb. 5 at 2 p.m. in MacKinnon 317. The thesis is "A Working Guest:

Hosting Genetic Algorithm Computation Across Multiple Networked Agents." The adviser is Prof. Deborah Stacey.

The final examination of M.Sc. candidate **Xia Zhang**, Computing and Information Science, is Feb. 11 at 9 a.m. in Reynolds 212. The thesis is "An Optimal Soft Keyboard for Mobile Systems." The adviser is Prof. Scott MacKenzie.

The final examination of **Kim Ryan**, an M.Sc. candidate in the Department of Microbiology, is Feb. 11 at 1:30 p.m. in Chemistry and Microbiology 319. The thesis is "Charac-

terizations of a CACAG Pentanucleotide Repeat in and Its Possible Role in Regulation of a Novel Type III Restriction-Modification System." The adviser is Prof. Reggie Lo.

The final examination of PhD candidate **Louis Tremblay**, Zoology, is Feb. 17 at 8:30 a.m. in Axelrod 265A. The thesis is "The Use of In Vitro and In Vivo Assays to Characterize the Effects of Estrogenic Compounds in the Rainbow Trout (*Oncorhynchus mykiss*)." The adviser is Prof. Ron Brooks.

Interested members of the University community are invited to attend.

Residence Staff Help Support Local Charities

RESIDENCE LIFE STAFF are in full swing with another semester of fund-raising events on campus.

Earlier this month, Lennox-Addington residence staff held a pizza night fund raiser for the Guelph Humane Society. Headed by second-year fisheries biology student Dylan Fraser, the event raised \$300.

On Feb. 2, International House hosts its annual World on a Plate culinary extravaganza. About 15 countries will be represented by dishes prepared by various students, with some proceeds going to local charities. The event is open to the University community.

French House is hosting the International Week of the Francophonie

March 16 to 20. Other upcoming events include Safe Break, Eating Disorder Week and a 24-hour push-up/sit-up-athon to be held across campus and in the University Centre.

Will Pascoe, residence manager of Lennox-Addington Hall, says residence life staff hope to continue the success of last semester's fund-raising efforts, which included raising more than \$2,000 for Raitby House and the Guelph-Wellington Children's Society through a "Dressing for Dollars" event and collecting money and food for the Guelph Food Bank at a movie night.

For more information, call Pascoe at Ext. 4892.



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ARBORETUM

Horticulturist Henry Kock will lead the course "A Natural Approach to Home Gardening" Monday evenings at 7:30 p.m. from Feb. 16 to March 23. Cost is \$60. Register by Feb. 9 at Ext. 4110. The course will also be offered March 12 and 19 from 9 a.m. to 4 p.m. Registration deadline is March 5.

A tap-dancing quartet from William Orlowski & Co. presents the children's show *Oliver Button Is a Sissy* Feb. 4 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5. For information, call Ext. 2113.

Two and Two Make Sex, a comedy written by Richard Harris and Leslie Darbon and directed by John Snowdon, opens Feb. 7 at Theatre in the Trees and runs Saturdays until April 25. Doors open at 6 p.m.; showtime is 8 p.m. Tickets are \$45. For information, call Ext. 4110.

ART CENTRE

Artist David Rokeby, whose exhibition "Giver of Names" runs at the Macdonald Stewart Art Centre until March 1, will speak Jan. 29 at 4 p.m. at the centre. On Feb. 5, Dot Tuer discusses "Computer-Integrated Work from the Body to the Machine" at 4 p.m.

CONCERTS

The Thursdays at Noon concert series continues Jan. 29 with Paula Elliott on flute and Sylvia Hunter on piano. On Feb. 5, pianist Valerie Candelaria performs works by Granados, Liszt, Beethoven and Mozart. Mezzo-soprano Anne-Marie Donovan and pianist Leslie De'Ath perform Schubert's *Schwanengesang* Feb. 12. All concerts are in MacKinnon 107.

The University Centre presents Holly Cole Feb. 4 at 9 p.m. at War Memorial Hall. Tickets are \$29 in advance, \$30 at the door, and are available at the UC box office.

Susan Aglukark is on stage Feb. 14 at 8 p.m. at the River Run Centre. Tickets are \$25 and \$27. For ticket information, call 763-3000.

The Vienna Choir Boys perform a 500th-anniversary concert March 1 at 8 p.m. at Church of Our Lady. Tickets are \$26 and \$21 and are available at the UC box office.

DISCUSSION

"The Agribusiness Challenge to Organic Agriculture" is the topic of a public forum and panel discussion Jan. 30 at 7 p.m. in UC 103. Admission is a cash or food donation to the Guelph Food Bank.

The "Our World" series presents Michelle Shook and Sarah Vance, past participants in the Guatemala semester, describing the development education aspects of their experience Feb. 3. On Feb. 10, student participants in the Trent University-in-Ecuador program explore "Development Dilem-

mas: Community Development and Technology." Discussion begins at noon in UC 334.

LECTURES

The interdisciplinary program on Canadian studies is offering a lecture series on "Media in Canadian Life" this winter. On Feb. 3, Thom Rose, foreign editor of *As It Happens*, discusses "Choosing the Foreign Agenda." "Media and Madness" is the topic of Gerald L'Ecyer, a filmmaker and contributing editor for TVOntario's *Imprint*, Feb. 10. On Feb. 12, Barry Duncan of the Educator Association for Media Literacy presents "Reading Pop Culture: From Malls to Celebrities." Lectures begin at 2:30 p.m. in MacKinnon 232.

The Third Age Learning — Guelph lecture series for retired people continues Feb. 4 with Prof. Fred Vaughan, Political Science, discussing Francis Bacon at 10 a.m., and Gordon Greene examining baroque music at 1:30 p.m. On Feb. 11, the topics are Rousseau and "Bach Drove a Complex Bus Route." Lectures are at the Arboretum Centre.

NOTICES

The winter deadline for nominations for honorary degrees and University professors emeriti is Feb. 27. For information about the nomination process, call the Senate office at Ext. 6758.

Learning and Writing Services in the Counselling and Student Resource Centre is offering a number of courses and clinics this semester. These include free drop-in clinics on time management and exam preparation, a non-credit course on academic writing for international students, mini-workshops on writing, and "Examsmart!", which offers skills training on such topics as exam anxiety management and studying and writing strategies. For more information, call Ext. 2662 or check out the Web pages www.uoguelph.ca/cscr/learning/homepage.html and www.uoguelph.ca/cscr/writing/homepage.html.

U of G is providing an opportunity for students who did not apply for bursary assistance during the fall semester to submit a bursary application for financial assistance. The deadline is Feb. 16. This will be of interest to all students with financial need, particularly those who have received the maximum loans through OSAP but are still experiencing financial difficulties.

Planning sessions for International Women's Day 1998 are slated for Feb. 3 at 7 p.m. in UC 332, Feb. 9 at 6 p.m. in UC 429 and Feb. 23 at 6:30 p.m. in UC 332. All women are welcome to attend one or all of the meetings. A limited number of childcare subsidies and bus tickets are available. For more information, call Mahjabeen Ebrahim at the Human Rights and Equity Office, Ext. 6025.

The Stress Management and High Performance Clinic is offering a training program to prevent repeti-

tive strain at computer tasks. The first session of the program, an overview, is slated for Feb. 9 at 5 p.m. in UC 441. Cost is \$20 (\$5 for U of G students). Other sessions on skills training and muscle tension biofeedback begin Feb. 23. For more information, check out the Web site www.uoguelph.ca/~ksomers or leave a message at Ext. 2662.

READINGS

Quebec writer France Théoret will give two readings on campus Feb. 5, hosted by the School of Languages and Literatures. A poetry reading begins at 11:30 a.m. in MacKinnon 119A, to be followed by discussion. At 2:30 p.m., Théoret will read from her latest novel, *Laurence*, in MacKinnon 316. Both readings will be in French.

SEMINARS

The biochemistry seminar series continues Jan. 29 at noon with Prof. David Josephy, Chemistry and Biochemistry, discussing "Revised Ames and Objectives: Mutagenicity Assays with Bacterial Strains Expressing Recombinant Enzymes of Bioactivation" and Feb. 12 at 1 p.m. with graduate student Crista Thompson explaining "Identification and Characterization of Peptide Inhibitors of *Pseudomonas aeruginosa* Ecotoxin A Function." Both talks are in MacNaughton 222.

The Department of Environmental Biology and Faculty of Environmental Sciences present Hugh Danks of the Canadian Museum of Natural History discussing "Arctic Insects as Indicators of Climatic Change" Jan. 29 at 1:30 p.m. in Axelrod 117.

The Department of Biomedical Sciences kicks off this semester's graduate student seminar series Jan. 30 with Sirirak Chantakru outlining "Studies of NK Cell Trafficking During Pregnancy in tg ϵ 26 Mice" at 12:30 p.m. in OVC 1642.

The Plant Biology Council hosts a seminar series Wednesdays at 3:15 p.m. On Jan. 30, Charles Benbrook of Benbrook Consultant Services Inc. asks "Is Agricultural Biotechnology Ready for Prime Time?" in Crop Science 117. Marilyn Griffith of the University of Waterloo discusses "The Role of Antifreeze Proteins in Winter Survival of Plants" Feb. 4 in Axelrod 259. On Feb. 11, Malcolm Drew of Texas A&M talks about "Flooding: Mechanisms of Cell Survival and Programmed Cell Death in Roots Under Hypoxia and Anoxia" in Axelrod 259.

The Axelrod Institute of Ichthyology's "Loaves and Fishes" seminar series runs Tuesdays at 12:30 p.m. in Axelrod 168. On Feb. 3, retired zoology professor Eugene Balon discusses "Destruction of the Last Danube Delta." On Feb. 10, Bruce Morrison explains why "Sea Lampreys Don't Like Crows."

The Department of Economics presents Arthur Robson of the University of Western Ontario discussing

"Why Would Nature Give Individuals Utility Functions?" Jan. 30. On Feb. 6, Leo Michelis of Ryerson Polytechnic University outlines "The Distribution of the J and Cox Non-Nested Tests in Regression Models with Weakly Correlated Regressors." The talks begin at 3:30 p.m. in MacKinnon 235.

The Department of Physics winter seminar series runs Tuesdays at 4 p.m. in MacNaughton 113. Next up is I.B. Khriplovich of the Budker Institute of Nuclear Physics in Russia, who focuses on "Anapole Moments" Feb. 3. On Feb. 10, the topic is "Imaging Three-Dimensional Chemical Wave Structures" with Robin Armstrong of the University of Toronto.

SYMPOSIUMS

"Pesticides and Health: Risks and Benefits" is the theme of the 12th annual Toxicology Symposium Feb. 7. Registration begins at 8 a.m. in the OVC Lifetime Learning Centre. Cost is \$15 for lectures and lunch, \$7 for lectures only. For tickets and more information, send e-mail to Dawn Edmonds at dedmonds@uoguelph.ca.

Human kinetics students host their 28th annual symposium Feb. 7 at the Cutten Club. This year's theme is "Pushing the Limits: Current Trends in Performance Enhancement and Recovery." The day will feature four presentations by guest speakers, to be followed by discussion. Tickets are \$15, including lunch, and can be purchased from the Department of Human Biology and Nutritional Sciences until Feb. 6. For more information, call Ext. 6171 or 763-4535.

The fourth annual State of Our Earth Symposium organized by U of G students will be held Feb. 7 from 9 a.m. to 5:30 p.m. in the Thornbrough Building. This year's theme is "Action Through Interaction." The day will feature a keynote address by Lara Ellis of the Wildlands League, three workshop sessions and a closing talk by North York teacher and environmental activist Skid Crease. Cost is \$5 for members of the U of G community, \$7 for others. Pre-registration is Jan. 28 to 30 Feb. 2 to 4 in the MacNaughton Building foyer. For more information, call Ext. 3794 or check out the Web site www.uoguelph.ca/~esse/ symposium.html.

THEATRE

The Hope Slide, a one-woman show by Canadian playwright Joan MacLeod, runs nightly at 8 p.m. at the Inner Stage until Jan. 31. The show is directed by Mara Shagnessy and performed by Godric Latimer, fourth-year drama students. Tickets are available at the door.

WORKSHOPS

Teaching Support Services (TSS) and the ethics in science faculty interest group are offering a series of workshops to highlight controversial issues that arise out of the development and use of scientific knowledge

and to illustrate useful ways of pursuing these issues in the classroom. First up is "Genetic Engineering for Pest Management in Agriculture: Ethical Issues and Implications" Jan. 29 at 5:30 p.m. in the University Club. To register, call Helen Martin at Ext. 2793.

TSS, Computing and Communications Services and the U of G Library are offering a series of presentations and workshops for faculty interested in using the Web in their teaching. "The Web as Learning Assistant — the Basics and Beyond" runs Jan. 30 from 1 to 3 p.m. Hands-on sessions to learn the basics of Web page creation using Netscape Composer will be offered Feb. 3 and 6 at 11:30 a.m. "Garbage or Gold Mine? Critically Evaluating Web Resources" will also be offered twice — Feb. 10 at 2 p.m. and Feb. 13 at 1 p.m. All sessions will run in the library. Registration is required. For more information or to register, call Mary Nairn at Ext. 3571 or e-mail to mnairn@uoguelph.ca.

"Improving Ongoing Feedback During Courses" is the topic of a TSS workshop Feb. 4 from 11:30 a.m. to 1 p.m. TSS director Prof. Julia Christensen Hughes and Prof. Ron Stoltz, Landscape Architecture, will present several techniques that can be used for soliciting feedback. To register, call Helen Martin at Ext. 2793.

COMMUNITY EVENTS

Musica Viva presents its annual Valentine Cabaret Feb. 7 at 8 p.m. (doors open at 7 p.m.) at the River Run Centre. The show features show tunes and jazz with singer Kathryn Elton and friends, including former Guelph mayor John Counsell on the piano. Tickets are \$35 and can be obtained by calling 763-3000.

"Take Time for Tea" is the theme of a workshop on the history of tea presented by Guelph Museums. Sessions run Feb. 3, 10 and 17 at 7 p.m. at the Guelph Civic Museum. Cost is \$75. For information, call 836-1221.

A public meeting to gauge local interest in creating a canoeing/rowing club at Guelph Lake is set for Feb. 7 at 10 a.m. in Room 2 at the Evergreen Seniors Centre.

The Arkel Schoolhouse Gallery presents mezzo-soprano Anne-Marie Donovan and pianist Leslie De'Ath performing "A Song for Schubert's Birthday" Jan. 31 at 8 p.m. Tickets are \$15. On Feb. 13 at 8 p.m., guest performers are violinist Jacques Israelievitch and harpist Judy Loman. Tickets are \$20. For reservations, call 763-7528.

Waterloo Stage Theatre presents the musical *What About Luv?* starring Kathryn Elton Thursdays to Sundays until March 22. Tickets are \$18 to \$25 and are available from the theatre at 519-888-0000.

The Guelph Historical Society meets Feb. 3 at 8 p.m. at St. Andrews Church. U of G geography graduate Robert Miller discusses "Stone Buildings in Guelph."