

AT GUELPH

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November 22, 1995

AT A GLANCE

Opening up the budget situation. Nancy Sullivan, vice-president (finance and administration), and John Miles, assistant vice-president (finance), will hold a community-wide forum on budget matters Nov. 28 at 12:15 p.m. in Peter Clark Hall.

Share a Christmas meal. Many of U of G's 547 international students are unable to go home to be with their families at Christmas. The international student adviser's office invites members of the University community and the city to open up their homes and have an international student join them for Christmas dinner. If you are willing to host a student, call Alexandra Vervaeke at Ext. 6918 between 1 and 5 p.m. by Dec. 8.

Towards the top. As of Monday, the campus United Way appeal had reached 82 per cent of its fund-raising goal — a total of \$151,534.

Former chancellor dies. Emmett Hall, the father of Canadian medicare, died Nov. 12 at 96... page 3

On the right track. Sharyn McKee of the Equine Research Centre has inside information on almost half a million race horses... page 5

Alumni see their shadow. A job-shadow program initiated by a HAFA student gives U of G grads a way to stay involved with the University... page 8

Thought for the week
I can hold a note as long as the Chase National Bank.

Ethel Merman



The hazards of taste testing. "Irving" of Manitoulin Crafts serves horseradish to students Jodi Rowe, left, and Kristen Brown and watches the fallout. His display was part of Fair November, which ran for four days last week in the University Centre.
Photo - Kerith Waddington, University Communications

B of G backs leadership, contingency planning

Board of Governors Nov. 23 voiced support for the leadership being provided to the University as it prepares to deal with the pending cuts to provincial transfer payments. B of G also praised the consultative and open manner in which the administration, faculty, staff and students are working together on contingency planning to cope with the new fiscal reality.

Queen's Park will make its funding announcement Nov. 29 at 4 p.m. As of press time Monday, plans were being put in place to inform the University community as quickly as possible of the announcement and its overall impact on the university system. (Watch for details in next week's *At Guelph*.)

At the B of G meeting, president Mordechai Rozanski, assisted by Prof. Iain Campbell, provost and vice-president (academic), and Nancy Sullivan, vice-president (finance and administration) walked the board through a presentation on the current provincial budget situation and outlined a number of realistic options to respond to the funding cuts. The presentations paralleled the town hall meetings Oct. 23 and 24 for faculty and staff and Nov. 1 for students.

Rozanski said U of G is bracing for a 15- to

20-per-cent cut to the Ministry of Education and Training (MET) grant and potentially an even greater cut to the contract with the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

U of G is perhaps in a somewhat stronger position to deal with the cuts because it has already made many hard decisions in the Cresap reductions, the five-year reduction plan in the colleges and the special early retirement plan leading to the absorption of social contract cuts, Rozanski told the board. But the new cuts will still be painful, he said.

Some of the ideas being explored as contingency planning proceeds were explained to the board. These fall into three broad areas — administrative efficiencies, revenue generation and staffing and compensation. (See *At Guelph*, Nov. 1.)

"There is absolutely no doubt that we face a massive disinvestment in university education," said the president. But he added that Guelph would face the challenge, strengthened by faculty, staff and students who believe in the University's sense of family and community.

Board chair Doug Dodds noted that leader-

ship is being provided and that decision making is being distributed. "We are not sitting back and waiting for the government news," he said. "There is extensive work going on, and on Nov. 29, we will be in a form of readiness to begin the dialogue to deal with the cuts."

Dodds noted that he and Rozanski met recently with the U of G Faculty Association (UGFA). "There is a recognition that we have a collective problem," said Dodds, "but there is also skepticism because of a perceived lack of openness in the University's budget information." He noted that the president had committed to sharing budget information as part of an open budget process.

He acknowledged, however, that there will be skepticism if people don't understand budget information. "The University will try to help its people read financial reports to maintain confidence in the budget process," he said.

Sullivan and John Miles, assistant vice-president (finance), are to hold several meetings on budget matters, including a meeting with the UGFA Nov. 23 and a community-

See OPEN on page 4

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LETTERS

Ecologists ignore evidence on how ecosystems with humans function

Although *At Guelph* may not be the appropriate place to carry out a debate on ecology, economy and human health, I feel compelled to respond to Prof. Sandy Middleton's cogent criticisms of the CUCHID workshop in the Nov. 15 issue.

In fact, the wheel he imagines has never, in a scientific, scholarly context (nor in a policy context), been invented. There were no ecologists at the workshop because my (admittedly limited) experience with ecologists has been that there are a great many preachers among them, but very few who are interested in genuine debate and interdisciplinary learning. I am willing to concede that perhaps I attract an inordinate number of preachers because I am so obviously a lost intellectual soul in need of academic redemption.

Ecologists, it seems to me, have by and large ignored the evidence on how ecosystems with human beings function (not how they wish they would function, but how they actually do) and hence have not rigorously incorporated the insights of anthropologists, sociologists and indigenous communities into their prescriptions. The idea, for instance, that the gold standard for an agricultural ecosystem might be a "pristine" ecosystem without people in it (a

commonly preached view, at least to me) is directly comparable to saying that the gold standard for a coral reef is a marine ecosystem without coral in it. Giving farmers, whether here or in Ethiopia or Nepal, another sermon on how they should behave is unlikely to have the desired effect precisely because it is based on a fantasy of a world without people.

Having said that, I am seeing more recognition of this among ecological thinkers such as Tim Allen and Richard Levins, who would echo the 1984 statement by Walters and Holling that "we apparently have some fundamental misunderstanding about the dynamics of controlling institutions, so studies on institutional resilience should be a top research priority."

I hasten to add that my experience with health scientists, physicians, veterinarians, sociologists, etc., has been no different from my experience with ecologists. I've just returned from an international health conference where global policy makers were praising the McDonald's management model of health-care delivery as being efficient, effective and clean, while community activists were speaking the subversive language of participatory action, emergent complex systems and socio-ecological sustainability in

a world where uncertainty was the rule, rather than the exception.

The people at the CUCHID workshop would all probably be considered fringe in their fields precisely because they believe we live in a complex reality that does not, contrary to what many people would like to believe, neatly divide itself into disciplines and departments.

To get beyond this "we told you so" milieu, I think we actually do need to invent a wheel (or at least a variety of vehicles) that will carry us forward in genuine attempts to simultaneously deal with human well-being in a context of multi-species community well-being. This will involve considerably more than the superficial observation that the effects of many attempts by humans to feed and clothe ourselves have not

only had negative effects on other species, but may also be self-defeating and unsustainable, even for the human communities that invented them as a survival strategy.

Clearly people have reasons for doing these things. What are they? I don't believe that we, or any other species, have a natural instinct to self-destruct. I would welcome ecologists who are willing to engage in such debates to participate in organizations such as the Canadian Society for International Health, CUCHID and the WHO to bring their insights to the table and get them incorporated into how we simultaneously respond to human and global needs.

Prof. David Waltner-Toews
Population Medicine

Keele students tested during year

In the Nov. 8 article "Keele Exchange On," I was surprised to read that students at England's Keele University have "no essays, midterms or small assignments" and even more surprised to be named as the source of that information.

It may well be that comments I made about student assessment at

the University of Udine in Italy (another Guelph exchange program) have been transferred to Keele. As far as I know, Keele students, like Guelph students, expect to be tested in a variety of ways during the academic year.

Prof. Patrick Holland
Co-ordinator, Guelph-Keele Exchange

STUDENT SPEAK

Botany students head north via computer

by Joanna Von Felkerzam

Introductory biology students will soon be able to take a field trip to the Arctic without leaving the comfort of their computer lab.

The Department of Zoology is launching an interactive computer program this month that

simulates field trips to the Arctic for the course "Introduction to Biology." Designed by Prof. Pat Wright, Uta Strelve and Trevor Friesen, Zoology, and Brent Mersey and Prof. Tom Carey of Teaching Support Services, the two-hour program offers a real-

life look at the arctic ecosystem.

Through the magic of computer graphics, students fly to the Arctic via helicopter and meet scientific experts at their research field site. Provided with an interactive knapsack, the students undertake field research as journalists studying the ecosystem. They can access maps, books and a notepad at any time.

After an interactive question-and-answer period with the experts, the students are expected to write an article based on the research conducted on their trip.

One of the advantages of interactive multimedia is that it "forces students to understand the concepts before they proceed, instead of flipping through the pages of a book," says Wright. Students must answer random quiz questions in each section of the program before they continue on to the next section.

Another advantage is that students are able to proceed through

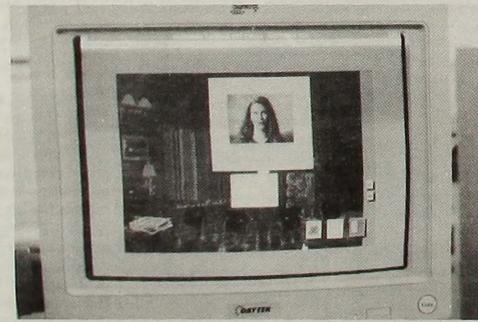


Joanna Von Felkerzam

the program at their own pace, says Mersey. Whenever necessary, they can freeze, retrieve and print an image from the computer.

The project involved several student volunteers who tested the program. Graduate students played the science experts. "This adds personalities and a sense of humor," Wright says.

Although designing and programming a prototype of this magnitude are time-consuming, Wright and Mersey are convinced of its potential. Mersey hopes the prototype will be used as a model for other ecosystem labs. □



Botany graduate student Claudia Schaefer (inset) plays a science expert in the computerized arctic field trip.

Farcus
by David Wenzaga
Gordon Coulman

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Former chancellor Emmett Hall dies

Former U of G chancellor Emmett Hall, the lawyer and judge who was the father of Canadian medicare, died Nov. 12 in Saskatoon. He was 96.

A former justice of the Supreme Court of Canada, Mr. Hall served as Guelph's chancellor from 1971 to 1977.

He made a major contribution to Canadian society when he chaired the royal commission whose 1964 report led to the introduction of medicare. He was also well known as co-author of the Hall-Dennis Report, which recommended sweeping changes of the Ontario educational system in the 1960s.

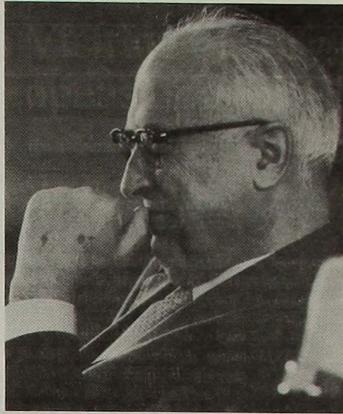
Born in Quebec, Mr. Hall moved to Saskatchewan at the age of 12. He earned his law degree at age 21, then practised law until 1957, when he was appointed chief justice of the Queen's Bench Court for Saskatchewan. He was named the province's chief justice in 1961, then appointed to the Supreme Court in 1962. He retired from the bench in 1973.

Mr. Hall was popular on campus throughout his six years as chancellor. He presided at convocation, attended Board of Governors and Senate meetings and chaired the University Policy Committee on Human Rights.

"He loved students," says Prof. Fred Vaughan, Political Studies, who became friends with Mr. Hall while writing a judicial biography of him. Vaughan recalls an occasion when Mr. Hall visited his class and ended up giving an impromptu lecture. "Every time I tried to close the class, he overruled. As a judge, he had a special way of doing that."

President Mordechai Rozanski expresses condolences on behalf of the University community to Mr. Hall's family.

"Mr. Hall was chancellor at a crucial time in the University's history and he is well-remembered and deeply appreciated by those people who helped



Emmett Hall

Guelph become a full-fledged university," says Rozanski.

Predeceased by his wife, Isabel Mary Parker, Mr. Hall is survived by his daughter, Marian Wedge, a justice of the Saskatchewan Court of the Queen's Bench, and his son, John, a doctor who became chief of orthopedics at the Hospital for Sick Children.

★ ★ ★

Luella Timmins Smith, a former lab technician at U of G, died at the Eden House Care Facility Nov. 14. She was 79. Predeceased by her husband, Jock, she is survived by a daughter and son. A tree will be planted in memory of the Smiths in the Wall-Custance Memorial Forest Sept. 22 at 2:30 p.m.

★ ★ ★

Ray Wellhauser, a porter in Student Housing Services, died Nov. 16 at the age of 64. An employee of U of G since 1982, he is survived by his wife, Jeanne, and two children, David and Tracy. Donations may be made in his memory to the Guelph Food Bank. □

Visiting history prof opens door to China

The Department of History is hosting its first visiting professor from the People's Republic of China this semester. Jie Yang, vice-chair of the history department at the University of Hangzhou in Zhe Jian Province, came to Guelph in September at the invitation of Prof. K.C. Tan, Geography.

A specialist in British history who graduated from Birmingham University in England, Yang is teaching two courses at U of G — "Modern Chinese History" and "Topics in Chinese Revolution."

Yang is enthusiastic about the time he is spending at Guelph. He lauds the McLaughlin Library as an important resource for his research and the History Department as a good environment to work in. He also praises his fourth-year students, saying they are eager to learn and able to think critically and more analytically than many students he has taught in the past.

In addition to his teaching duties, he has been studying the operation of Canadian universities and reporting his observations to the president of the University of Hangzhou. Hangzhou is looking into reforming its course requirements and the time it takes to complete degrees. Yang says he's impressed with U of G's system



Jie Yang

and would like to see his university adopt some of its components.

He hopes his visit to North America is just the first of many to come. Because he teaches western studies in China, he believes travel is necessary to keep him up-to-date. After leaving Guelph, he will attend a conference in Vancouver in December, then head off to the University of New Brunswick in January to lecture on modern Chinese history and Maoism. He returns to China in June.

Yang is located in Room 361 of the MacKinnon Building and can be reached at Ext. 3226. □

New Zealand conservation experience focus of Latomell Lecture Nov. 30

Andy Pearce, chief executive of Landcare Research in New Zealand, is this year's Latomell lecturer on conservation, resources management and environmental protection. He will speak on "Coping with Change — the New Zealand Experience" Nov. 30 at 7:30 p.m. in Room 100 of the Thornbrough Building.

Pearce began his career in New Zealand shortly after completing

his PhD on erosion and hydrological change caused by deforestation around Sudbury and Coniston, Ont. He researched land-use hydrology and erosion processes with the Forest Research Institute in New Zealand from 1974 to 1986 and was director of the institute's forest and wildland ecosystems division from 1987 to 1991.

Appointed by the New Zealand government to lead the estab-

lishment team for one of nine Crown research institutes in 1991, Pearce became the chief executive of Landcare Research in 1991. He is also president of the New Zealand Association of Crown Research Institutes Inc.

He will arrive on campus Nov. 28 and will be available for consultation until Nov. 31 through the Faculty of Environmental Sciences.

The Latomell Lecture is named for Arthur Latomell, a 1950 graduate of OAC who was a long-time supporter of the University and of young people working in environmental conservation activities. His career spanned nearly 40 years with the Ontario Ministry of Natural Resources.

A bequest from Latomell established an endowment fund that is used for travel, graduate scholarships, continuing education and professional development. □

Steckle receives medal of honor from United Nations

Jean Steckle of Kitchener, Guelph's 1993 Alumnus of Honor, has received one of 50 Medals of Honor from the United Nations in honor of its 50th anniversary. She was one of only three Ontario residents honored with the award at Queen's Park recently.

Steckle, a 1952 graduate of Macdonald Institute, spent 18 years with the UN's Food and Agriculture Organization. She served the people of West Africa, developing policies, materials and techniques to improve nutrition.

In 1976, Steckle returned to Canada to work with Health and Welfare Canada's Indian and Northern Health Services.

She recognized the problem of diabetes among native people, chaired the National Native Diabetes Education Working Group and was a key member of the first international conference held on

diabetes and native people in 1990.

Prior to retiring, she worked with the International Development Research Centre in Ottawa. □

Search on for dean of CPES

A search committee has been established to select a new dean of the College of Physical and Engineering Science.

Chaired by Prof. Iain Campbell, provost and vice-president (academic), the committee consists of Prof. Nigel Bunce, Chemistry and Biochemistry; Prof. Jim Linders, Computing and Information Science; Prof. John Simpson, Physics; Prof. Ward Chesworth, Land Resource Science; CBS dean Robert Sheath; Prof. Larry Milligan, vice-president (research); graduate student Jeremy

Balka, Mathematics and Statistics; and undergraduate student Laurie Halfpenny, School of Engineering.

Candidates must be tenured faculty at U of G. They should have a proven record of leadership and achievement in teaching, research and administration, demonstrable ability in long-term academic planning and an interest in working closely with other colleges and external organizations.

Applications and nominations should be submitted to Campbell by Dec. 15. □

GFTC construction may affect power services

Users of the Food Science Building may experience periodic disturbances and service disruptions over the next couple of months as construction of the pilot plant linking the building with the Guelph Food Technology Centre (GFTC) continues.

Demolition of the affected portions of the Food Science Building will start at the end of November or beginning of December, says U of G's construction manager, Dennis Novosad. This is expected to cause the most disturbance, along with the rerouting of site services, excavation and construction of necessary fire separations between the new plant and the Food Science Building.

The construction team expects to complete the pilot plant to its second roof by the end of February.

Novosad says users of the Food Science Building will be kept informed of all construction activities that might affect them by the project's design and construction management team and Physical Resources staff. Every effort will be made to minimize the impact of the disturbances, he says.

The GFTC is fully funded externally by the food industry and the provincial government.

Anyone with questions or concerns during the construction period can call Novosad at Ext. 2009. □

Washroom ads net revenue

It's not bathroom humor that has patrons of University Centre washrooms extending their stays these days — it's advertising bulletins.

The UC began posting the ads in September under a contract with the Montreal-based Zoom Advertising Network, which has similar deals with York, McGill, Concordia and Wilfrid Laurier universities. The ads — for such things as jeans, lifestyle choices and responsible drinking — are carefully screened by the UC administration, says Bill McNaughton, director of the University Centre. McNaughton expects the ads to generate more than \$10,000 a year in revenue for the University Centre. This money could be used for such things as upgrading the

centre, including the washrooms.

He's enthused about the potential of this new form of "out-of-sight" advertising.

"The bulletins are a non-traditional source of revenue-generation, but as times get tough, more and more universities are having to look into alternative ways of staying afloat," he says. "The UC is being used as a test area to determine the acceptance factor. I would expect that given the largely positive response to date, the initiative may be extended across campus."

Other revenue-generating ideas from the UC administration include the recent addition of a flower shop on the main floor of the centre and plans for a number of special fairs. □

Open consultation lauded

Continued from page 1

wide forum Nov. 28 at 12:15 p.m. in Peter Clark Hall.

"The University's budget is a complex document," said Rozanski. "We have a responsibility to make sure our community has a clear understanding of where the University is and the difference between financial statements that report on all University funds and the operating budget, which is a single fund under the University's fund accounting policies."

Board member Michele Darling commended the administration

on the presentation and said she took comfort in the open and consultative way the University is going about contingency planning.

In other business, the board approved the OMAFRA portion of the University's operating budget for the current fiscal year. OMAFRA has deferred cutting some \$2 million that was part of the ministry's 1995/96 reduction to the 1996/97 fiscal year. This is a first instalment in the OMAFRA cuts.

The next meeting of B of G has been changed from Jan. 25 to Jan. 18 at 3 p.m. □

Political Studies passes motion

The Department of Political Studies Nov. 2 unanimously supported an earlier motion passed by the Department of Philosophy that strongly urges U of G's central administration to join with other university administrations and with faculty, staff and student associations and Canadian Union of

Public Employees members across the province in a public declaration of an impending crisis in higher education in Ontario.

The Department of Political Studies motion urges them — together with the province — to take immediate action to avert this crisis. □



Signing on. The two largest unions on campus signed new collective agreements with the University in October. Above: U of G Staff Association president Dave Robinson, Biomedical Sciences, and president Mordechai Rozanski sign the UGSA's new agreement. Below: The Canadian Union of Public Employees, Local 3913, signs its first collective agreements Oct. 11. In front, from left, are Bruce Anderson, manager of employee relations; Rozanski; and Local 3913 chair Rick Smith, a graduate student in zoology. In back are College of Social Science dean David Knight; Prof. Iain Campbell, provost and vice-president (academic); Prof. Robert Brown, Landscape Architecture; Nancy Sullivan, VP (finance and administration); Prof. Bill Harris, Biomedical Sciences; Prof. Larry Peterson, Botany; Prof. Susan Pfeiffer, Human Biology and Nutritional Sciences; teaching assistant representative Mark McAlpine, Drama; Local 3913 staff representative Mike Skinner of McMaster University; and sessional representative Gillian Siddall, English.
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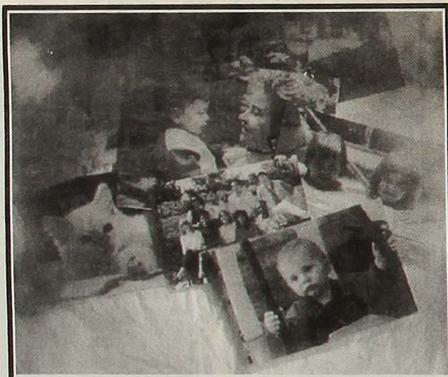
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PEOPLE

The Office of Research's student writing program sparked a sweep at the Canadian Farm Writers' Federation's (CFWF) 1995 awards in the category of best news release. Gold, silver and bronze medals were awarded to stories written by participants in the Students Producing Articles on Research Knowledge program. Steve O'Neill, an English major, captured gold for his article on the robotic cow-milking machine being tested by a research team led by Prof. Frank Humik, Animal and Poultry Science. Kerith Waddington, now a reporter for *At Guelph*, won silver for her story on "megaberries" being developed by Prof. Alan Sullivan, Horticultural Science. Biochemistry student Tammy Grime took home the bronze for her release on how research has supported consumers' trend towards lean meat products, with Profs. Ron Ball, Shai Barbut and Howard Swatland, Food Science. This marks the first student sweep in the CFWF's 40-year history.

Owen Roberts, Office of Research, was elected president of the CFWF at the group's annual meeting in Ottawa. The 300-member federation represents agricultural journalists and communications professionals from media, industry, government and academia across Canada.

Prof. François Paré, French Studies, has given a number of talks in Canada and the United States this fall. In October, he spoke on "Borders of Ambivalence: Is the Independence of Quebec Inevitable?" in Kutztown, Pa., and on "Grandeurs et misères du Québec actuel" at Lafayette College in Easton, Pa. This month, he gave talks on "Territoires de la désaffection: Le Québec et l'Amérique française" at the University of Montreal, "Impuissance et transcendance dans les oeuvres religieuses de Marguerite de Navarre" at the International Colloquium on Women Mystics in Buffalo and on "Franklin et Joséphine:

The Development of the Illustrated Children's Book in English and French Canada Since 1980" at the University of Waterloo's Colloquium on Children's Literature.

Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology, gave a colloquium at McMaster University on "Classical Social Theory with the Women Founders Included."

Profs. Tony Winson and Belinda Leach, Sociology and Anthropology, organized a round-table discussion on "Rural Restructuring in Canada" for the annual meeting of the Canadian Sociology and Anthropology Association and presented a paper entitled "They Won't Hire a Woman My Age: Older Workers, Gender and Rural Restructuring." Winson also gave a paper on "Restructuring of the Canadian Agro-Food Complex: Issues and Non-Issues" at the Institute for International Studies, University of California, Berkeley.

Several members of the Department of Economics gave papers at the Learned's this year. Prof. Louis Christofides presented a joint paper with PhD student Audrey Sattelberger-Laporte called "The Intra-Contract Behavior of the Nominal and Real Wage Rates." Prof. John Livernois presented "Exhaustible Resource Depletion in the Presence of Stock-Dependent Costs." Prof. Michael Hoy spoke on "The Impact on the Urban Environment of Incomplete Property Rights," which was co-authored by Emmanuel Jimenez of the World Bank. Recent PhD graduate Anastasia Linter spoke on "Controlling Water Quality from Diffuse Sources: Nutrient Pollution Tradeoffs, Farm Profits and Evaluating Control Instruments." Visiting professor Patricia Koss presented "The Impact of Jurisdictional Uncertainty on Environmental Quality Management." She also presented this paper at Wilfrid Laurier University. □

Horse research on right track

by Tracey Tegart
Office of Research

Almost half a million horses raced in the United Kingdom between 1987 and 1993, and Sharyn McKee has "inside information" on every one of them.

McKee, a research analyst at the Equine Research Centre, has spent the last four years collecting information on race horses and racing conditions. As a result, she's amassed the world's largest database on the subject. With the goal of minimizing race-horse injuries and fatalities, McKee is identifying the conditions correlated with race-track breakdown by such factors as the age and sex of the horse, number of days between races, track conditions, season, the jockey's experience, race type and field size.

For each of the 59 race courses in the United Kingdom, McKee has established a rate of fatal injury — breakdowns after which a horse either dies or must be euthanized. Most commonly, the fatal injury is a forelimb fracture, from which horses rarely recover.

"Results clearly show that death rates vary from one track to another and vary depending on the type of race," says McKee.

She's found that flat races (equivalent to Canadian thoroughbred races) average eight deaths per 10,000 starts. That's a relatively low number, especially given that, unlike Canadian races, which typically feature about 10 horses, a start in the United Kingdom can include up to 40.

McKee notes that in steeplechases, characterized by a series of jumps about five feet high, the rate increases nearly tenfold to seven deaths per 1,000 starts. For hurdle races, which include a series of jumps about two feet high, the rate is a comparable five deaths per 1,000 starts.

She says these rates are likely underestimates because they are based on fatality reports from race sites and don't account for deaths that occur during training.

Although McKee cautions that it's too early to make any definitive correlations, she does have some intriguing preliminary findings, including:

- Stallions seem to be at greater risk of injury than geldings and mares. McKee speculates that it may be inherent for stallions to race more aggressively.
- Contrary to popular belief, older horses are more prone to injury (it had generally been thought that inexperienced animals were more likely to break down).
- Strangely, more injuries occur during races run in a counter-clockwise direction as opposed to clockwise. McKee says it's not yet known whether this is related to track direction or type. The answer may be of particular relevance for North America, where all races are run counter-clockwise.

McKee says that race-horse injury may be prevented with changes as fundamental as raising more sound foals, possibly through altering levels of certain nutrients in feed. She adds that race tracks can also help by removing jumps with high injury rates, and trainers can better condition the horses to race, perhaps by beginning training earlier. Ongoing research will monitor the

effects of such implemented change.

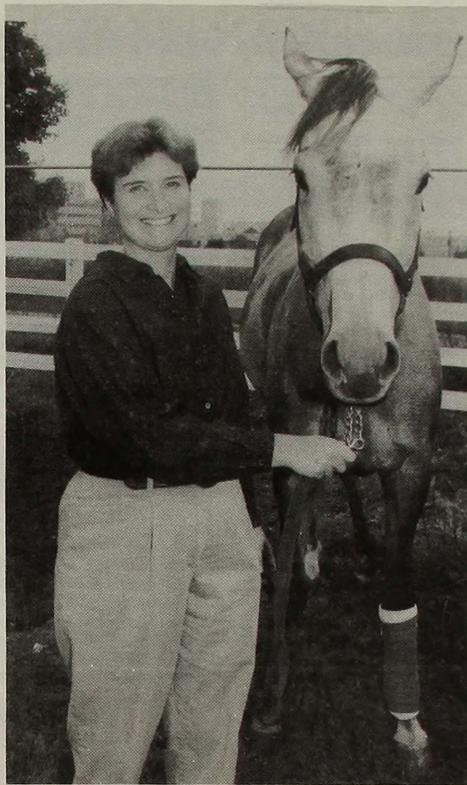
Expanding the database to include North American races will be the goal of future projects.

Although McKee is collaborating with researchers internationally and has presented her findings in Geneva, Dublin and, most recently, Japan, she stresses that the most important audience for these results includes those who — like race-horse and track owners — can take definite actions to prevent fatal horse injury. To make her results more accessible to those people, a World Wide Web page will be available.

A former standard bred horse owner and trainer, McKee was familiar with the racing world before beginning this project. She says that although race-track accidents are highly publicized, animal welfare is generally not compromised by the sport.

"Horses are competitive by nature," she says. "It's wonderful to see horses that really love to run."

McKee's work is sponsored by the British Jockey Club and the Equine Research Centre. □



Sharyn McKee has spent four years collecting information on race horses and racing conditions. Photo - Trina Koster, Office of Research

Microbiology prof has winning ways

by Kerith Waddington
University Communications

Outstanding efforts in research and teaching have made Prof. Chris Whitfield a winner.

A faculty member in the Department of Microbiology, Whitfield is this year's recipient of the prestigious New England Biolabs Award given annually by the Canadian Society of Microbiologists for work in the area of microbiology and molecular biology. He's also won the Award of Excellence in Teaching from the College of Biological Science.

A faculty member at Guelph since 1984, Whitfield says he tries to bring the interest and excitement of his research on bacterial cell surfaces into the classroom by emphasizing examples and topics that everyone can relate to.

"In my own department, the connection between teaching and research is very strong," he says. "It's important that students realize that basic research affects everything they do. Once they see this, I hope they will become supporters of it in the long run."

The research Whitfield was honored for — understanding the processes involved in the assembly of the cell surface of disease-causing bacteria — addresses the growing extent to which many antibiotics are becoming ineffective.

"The increasingly common resistance to existing antibiotics has resulted in an urgent need for new targets and strategies for therapeutic treatments," he says. "Through fundamental studies on assembly of bacterial surface components, we are beginning to identify processes that are crucial for growth and survival of a broad range of pathogenic organisms but do not occur in humans and other hosts."

As an example, Whitfield cites an enzyme reaction currently under investigation in his lab.

"The production of essential cell structures in a variety of pathogenic bacteria such as *Mycobacterium tuberculosis* (the causative agent of tuberculosis) and some

significant fungal and protozoan pathogens is under study. Once the precise reaction mechanism is established, we can exploit this information to design novel inhibitors — new antibiotics. Our studies are at an encouraging but preliminary stage. But there is already some industrial interest in our work."

Whitfield, who received funding for his work from the Medical Research Council (MRC), the Networks of Centres for Excellence program, and the Natural Sciences and Engineering Research Council of Canada, believes that interaction with industry is a relationship of growing importance for educational institutions.

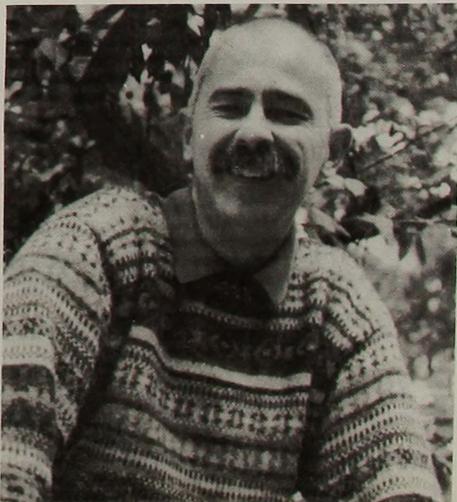
"As less funding becomes available from traditional sources for fundamental projects, support from industry will become crucial to the future of many research programs," he says. "The often complementary relationship that exists between industry and research can work to the benefit of both. But none of our work could have been done without the availability of funding for long-term curiosity-driven basic research."

Chair of the MRC's microbiology and infectious disease grant panel for the second year running, Whitfield helps review research proposals from across the country. He thinks it's important that universities have representatives on such funding panels.

"Faculty can find out what elements make a successful research proposal, what trends are influencing or will influence funding, and then pass on useful information to their colleagues."

Prof. Terry Beveridge, chair of the Department of Microbiology's awards committee, lauds Whitfield's contributions to the department.

"He excels at all the attributes a university professor should have," says Beveridge. "He is an international expert on the genetics of bacterial surfaces, an informative and popular teacher and he is in charge of the Networks of Centres for Excellence — Canadian Bacterial Disease Network at Guelph." □



Prof. Chris Whitfield.

Photo - Kerith Waddington

Vitamin E could mean tastier pork

A little Vitamin E may be all it takes to make pork more appealing to the restaurant trade.

Pork isn't served in restaurants as often as beef and chicken because it can't be precooked and frozen without taking on a rancid flavor. But Prof. Roger Hacker, Animal and Poultry Science, and colleagues at Ridgetown College have found that feeding pigs Vitamin E supplements stops recooked pork from tasting rancid and prolongs its shelf life by two days.

"Better-quality and more versatile pork would give the industry a big boost," says Hacker. "If the industry wants pork to be first with consumers, it's going to need to use technologies such as this."

He found that if pigs are fed between 200 and 400 IU of vitamin E from the time they weigh 60 kilograms until they weigh 100 kg, the degree of oxidation (the acid buildup that gives meat a rancid taste)

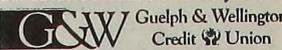
is reduced. He also discovered that vitamin E doesn't affect daily weight gain, feed intake or carcass yield of pigs.

Hacker says that if pork keeps longer and doesn't oxidize, restaurants will be more apt to buy it. And if the shelf life is longer, supermarkets may pay up to 10 cents more per kilogram.

"Vitamin E supplementation may be a low-cost and effective way to improve the keeping qualities of fresh pork and open up more market potential for Ontario pork," he says. "There's no doubt it would be profitable for all the groups involved — farmers, packers, restaurants and supermarkets."

This research is sponsored by the Ontario Ministry of Agriculture, Food and Rural Affairs, Hoffmann-LaRoche and Schneiders. □

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NOTICES

Celebrate naturally

The Arboretum is running two special programs to help celebrate the festive season naturally. Arboretum director Alan Watson will lead a session on "The Natural History of Christmas" Nov. 29 at 7 p.m. at the Arboretum Centre. Cost is \$11. Naturalist Donna MacWilliam and Chris Irvine of Country Silks will run workshops on natural winter decorations Dec. 6 and 7 at 7 p.m. at the nature centre. Cost is \$32 per session. To register, call Ext. 4110.

Dinner and dance

The West Indian Students Association will hold its annual dinner and dance Nov. 24 at the Bullring. The dinner is at 7 p.m., followed by the dance at 9 p.m. Tickets for the dinner and dance are \$15 for members, \$17 general, and can be purchased in Room 225 of the University Centre. Tickets for the dance are \$5 and \$7 and can be purchased at the door.

Agroecosystem health

The Agroecosystem Health Project is holding its second annual health conference and workshop Nov. 28 at the OVC Learning Centre. It is open to everyone, but space is limited. For information or to register, call Elin Gwyn at Ext. 8480.

Wrap it up

CUSO Guelph is looking for people to wrap gifts at Stone Road Mall between Nov. 27 and Dec. 3 to raise money for CUSO projects in Thailand, Laos and Indonesia. A free information session on CUSO projects will be held Nov. 27 at 8 p.m. at 123 Woolwich St. To volunteer for gift wrapping or to obtain more information about CUSO, call Sean Norton at 767-2201 or Brenda Donor at CUSO Guelph at 767-2854.

Cash bingos for AIDS

The AIDS Committee of Guelph and Wellington County will host cash bingos at Bingo Country, 228 Victoria Rd. S., Nov. 28, Dec. 13 and Dec. 27 from 12:45 to 3:15 p.m. Total cash prizes are \$5,350, including a super jackpot of \$2,000. For information, call 763-2255.

Philosophy colloquium

"Philosophical Investigations and Concerns Regarding the Human Genome Project" is the topic of a colloquium Nov. 25 from 10 a.m. to 4 p.m. in Room 308 of the MacKinnon Building. Everyone is welcome.

Christmas cards available

U of G Christmas cards can be purchased from University Communications until Dec. 8 or while supplies last. Cost is \$8 for a package of 10. All orders must be in writing and must include a billing code and authorizing signature. Call Elizabeth Gilbertson at Ext. 6582 for more information.

Christmas house tour

St. John's-Kilmarnock School presents a nostalgic tour of five 19th-century homes adorned for Christmas in the Guelph and Rockwood area Dec. 2 from 10 a.m. to 5 p.m. Two of the houses are owned by U of G faculty — Prof. Jock Buchanan-Smith, Animal and Poultry Science, and his wife, Virginia, and Prof. Richard Reid and sessional Susan Armstrong-Reid, History. Cost is \$15 before Nov. 23, \$20 after. For ticket information, call 856-9295.

Call for résumés

The Marketing Society is calling for résumés from graduating business students for inclusion in the *University of Guelph Business and Management Résumé Book*, which is distributed to about 150

Canadian companies. Submission fee is \$20. For more information, call Ext. 6759.

Support the United Way

Financial Services is holding a baby photo contest to benefit the United Way. Match the babies with the adults in a collection of photos from offices across campus. Ballots are \$1. The deadline for entries is Nov. 24. The Counselling and Student Resource Centre is holding a raffle on quilted Christmas table runners. The draw will be held Nov. 30. Tickets are \$1 each or 3 for \$2.

Honoring 25 years

U of G's annual luncheon for employees with 25 years of service will be held Nov. 27 at noon in Room 442 of the University Centre.

Family choir formed

All ages are welcome to join "Today's Family," a choir experience for the whole family. Rehearsals are Mondays at 7:30 p.m. from January to April. The choir will fund raise for children's environmental programs at U of G. For information, leave a message at 824-8464.

Museum has old phonebooks

The Wellington County Museum and Archives has acquired a large collection of telephone directories for Guelph and Wellington

County dating from 1879 to 1950. The collection is available on microfilm. The museum also has the index to the 1871 census for Ontario. The reading room is open weekdays from 1 to 4:30 p.m.

Messiah Dec. 10

The Guelph Chamber Music Society presents Handel's *Messiah* Dec. 10 at 3 p.m. at the Church of Our Lady. Tickets are \$15 and \$12 and are available at the UC box office.

Chilled-foods symposium

The Guelph Food Technology Centre presents a two-day symposium on chilled and refrigerated foods Feb. 20 and 21 at the International Plaza Hotel and Conference Centre in Toronto. For more information, call Kathryn Cooper at 767-5025.

Ontario-Quebec exchange

The Ministry of Education and Training is calling for university project proposals for the Ontario-Quebec Projects of Exchange for 1996/97. The program is open to faculty, researchers, students and staff across all disciplines. Applications must be received by Jan. 16, 1996. For more details, call 416-325-2110.

Doctoral studies fellowship

The Canadian Association of University Teachers announces the 28th annual J.H. Stewart Reid Memorial Fellowship for 1996/97 doctoral studies. Applications must be received by April 30, 1996. For application forms, write to Peggy Richer, Awards Officer, Canadian Association of University Teachers, 2675 Queensview Dr., Ottawa K2B 8K2. □

JOBS

As of *At Guelph* deadline Nov. 17, the following opportunities were available to on-campus employees only:

Accounting Clerk, Controller's Office, Financial Services (temporary leave from Jan. 15 to Aug. 2/96). Salary: \$14.44 to \$16.13 an hour. Removal date: Nov. 22.

Agricultural Assistant/Technician, Animal-Care Services, temporary leave from Feb. 5 to Sept. 9/96. Salary: \$14.44 to \$16.13 an hour. Removal date: Nov. 24.

Administrative Assistant, Department of Botany. Salary: \$15.02 minimum, \$18.78 job rate, \$22.52 maximum. Removal date: Nov. 24. □

CLASSIFIEDS

FOR SALE

Beaumarq heavy-duty washing machine, two-cycle; bicycle/ski rack for rear-mounted tire; 1981 Plymouth Reliant, 767-0613.

1989 Nissan Pathfinder SEV6 Trail Boss, certified, bush-guard, automatic, fully loaded, 168,000 kilometres, excellent condition; corner sofa with double bed, 763-7984.

Oak sideboard, circa 1920; 15-cubic-foot refrigerator, two years old; rowing machine, Ext. 8950.

General Electric heavy-duty washing machine, two-cycle, works well; Kenmore heavy-duty dryer, needs parts, free with washer; 60-gallon electric hot water tank, 822-2094 after 6 p.m.

Child's Peg Perego electric ride-on vehicle, 822-3729.

FOR SALE

Black Ikea wall unit with glass door; Ikea full-length mirror, pine frame; Ikea small pine stand; pine coffee table; IBM 286 computer, VGA monitor, keyboard, mouse, several programs; Olivetti dot matrix printer; Voyager step machine; juicer; round mirror; electric frying pan; glass coffee table; dark wood bookshelf; kitchen utensils and dishes, 821-5037 after 6 p.m.

Two-bedroom winterized cottage or home, new roof, garage-door opener, airtight, two minutes to beach access, 705-534-6366.

Estate sale, Dunedin, Florida, mobile home plus share in 55+ park, one bedroom, fully furnished, 821-3397 after 5 p.m.

WANTED

Female country/bluegrass singer, willing to commit to long hours of practice, serious calls only, Jason, 853-1737.

Person to share large old stone house on one acre, downtown Guelph, laundry, parking, large kitchen and living areas, non-smoker, no dogs, \$400 a month plus utilities, available Jan. 1, Meg, Ext. 4786 or 822-2430.

FOR RENT

Two-bedroom furnished apartment, eight minutes to campus, suit visiting faculty, reasonable, available Dec. 10, 905-823-4042 (landlord) or 821-1451 (tenant).

One bedroom in bright, clean two-bedroom apartment, near York Road and Harris Street, share with graduate student, laundry, parking, available Jan. 1, no lease, \$360 a month inclusive, Brent, Ext. 6307 or 821-2566.



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CALENDAR

THURSDAY, Nov. 23

Pathology Seminar - Graduate student Lyndon Badcoe discusses "Idiopathic Dilated Cardiomyopathy in Doberman Pinscher Dogs" at 11:10 a.m. in Pathology 2152.

Lecture - Social activist Maude Barlow discusses her book *Straight Through the Heart* at noon in Peter Clark Hall.

OVC Seminar Series - "Aspects of the Oestrous Cycle and Pregnancy in the One-Humped Camel and the African Elephant" is the topic of William "Twink" Allen of the University of Cambridge at noon in OVC 1714.

Information Session - Learn all about studying abroad at 3 p.m. in UC 332. Sign up at the Centre for International Programs InfoCentre on UC Level 4 or call Ext. 4876.

Veterinary Microbiology and Immunology Seminar - Biologist Robert Bender of the University of Michigan, Ann Arbor, discusses "Regulation of Nitrogen Metabolism in Enteric Bacteria" at 3 p.m. in VMI 101.

FRIDAY, Nov. 24

Human Biology/Nutritional Sciences Seminar - Robert Ross of Queen's University offers "A New Perspective on the Influence of Diet and Exercise on Intra-Abdominal Adipose Tissue and Skeletal Muscle in Men and Women as Provided by Magnetic Resonance Imaging" at 1:10 p.m. in Powell 207.

Evolution and Systematics Seminar - "The Evolution of Social Behavior in Sweat Bees" is the topic of Laurence Parker of York University at 3:10 p.m. in Axelrod 259.

MONDAY, Nov. 27

Concert - Prof. Mary Cyr conducts the U of G Early Music Ensemble at 12:10 p.m. in MacKinnon 107.

Theatre - The Department of Drama presents Bertolt Brecht's *The Caucasian Chalk Circle* nightly until Dec. 2 at the Inner Stage. Performances are at 8 p.m. Prof. Alan Filewod directs. Tickets are \$6 Monday to Wednesday, \$8 Thursday to Saturday, and are available at the UC box office.

TUESDAY, Nov. 28

Workshop - The Agroecosystem Health Project presents a health conference and workshop at the OVC Learning Centre. Register at Ext. 8480.



Mezzo-soprano Inna Golsband is soloist at the U of G Choir's Dec. 1 concert.

Computing Science Seminar - "Remarks on Inferring Integer Sequences" is the focus of Jeffrey Shallit of the University of Waterloo at 3:10 p.m. in MacNaughton 201.

Chemistry and Biochemistry Seminar - Paul Rowntree of Sherbrooke University discusses the "Use of Self-Assembled Monolayers to Study Thin-Film Growth Mechanisms and Electron-Induced Processes in Organic Solids" at 2:10 p.m. in MacNaughton 222.

Physics Seminar - Carlos Stroud of the University of Rochester explains "The Classical Limit of an Atom: Rydberg Electron Wave Packets" at 4 p.m. in MacNaughton 113.

WEDNESDAY, Nov. 29

Food Science Seminar - Prof. Yukio Kakuda, Food Science, discusses "Caramel: A Sticky Problem" at 11 a.m. in Food Science 202.

Biochemistry Seminar - "The Structural and Functional Importance of Buried Water Molecules in Globular Proteins" is the subject of Guy Guillemette of the University of Waterloo at 12:10 p.m. in MacNaughton 222.

Plant Biology Seminar - Sally Assmann of Pennsylvania State University considers "Second Messenger Regulation of Plant Ion Channels" at 3:30 p.m. in Axelrod 259.

Zoology Seminar - "Biological Insights into 'Catch and Release' Sport Fisheries" is the topic of Bruce Tufts of Queen's University at 4 p.m. in Axelrod 465A.

Concert - John Goddard conducts the U of G Concert Winds at 5:30 p.m. in the UC courtyard.

THURSDAY, Nov. 30

Pathology Seminar - Graduate student Phil Byrne talks about "The Pathogenesis of Bacterial

Gill Disease" at 11:10 a.m. in Pathology 2152.

Latornell Lecture - Andy Pearce of Landcare Research in New Zealand discusses "Coping with Change — The New Zealand Experience" at 7:30 p.m. in Thornbrough 100.

Concert - The Jazz Ensemble conducted by Prof. Howard Spring performs at 8 p.m. in the Graduate Students' Lounge on UC Level 5. Admission is \$2.

FRIDAY, Dec. 1

Mathematics and Statistics Seminar - Y.H. Yang of Concordia University gives "An Overview of the Generalizations of the Poisson Convergence Theorem" at 11 a.m. in MacNaughton 201.

Human Biology and Nutritional Sciences Seminar - "Early Malnutrition and Later Work Capacity" is the focus of Jere Haas of Cornell University at 1:10 p.m. in Powell 207.

Concert - The U of G Choir conducted by Marta McCarthy performs "Celebrations in Song" at 8 p.m. in War Memorial Hall. Admission is \$7.

TUESDAY, Dec. 5

Chemistry and Biochemistry Seminar - William Marshall of McGill University considers "Metal Mobilization/Purging by Complexometric Extraction into Supercritical CO₂" at 2:10 p.m. in MacNaughton 222.

Plant Biology Seminar - "Scales and Processes in Forest Fire Ecology" is the topic of Ed Johnson of the University of Calgary at 3:30 p.m. in Axelrod 259.

WORSHIP

A meditation group for beginners or practitioners runs Thursdays at 12:10 p.m. in Room 533 of the University Centre.

Womanspirit, a spirituality circle for women, runs Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Room 100 of the Thornbrough Building.

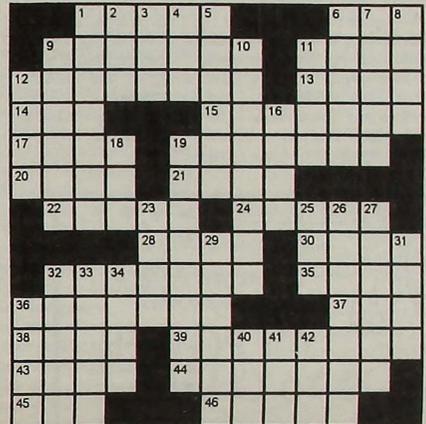
The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □



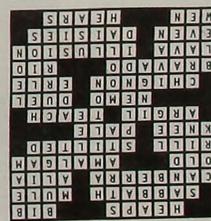
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 - ___ Grande
 - Volcanic matter
 - False belief
 - Smooth
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 - Gets wind of
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 - Protuberance
 - Homer epic
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GRAD NEWS

Alumni share job experience

by Kerith Waddington
University Communications

Alumni and friends of the University are being followed in increasing numbers. But they're not worried because the people following them are U of G undergraduates participating in a job-shadow program.

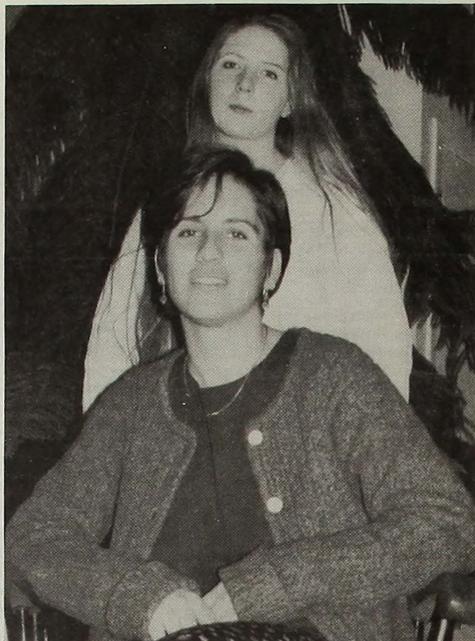
Launched in 1993 by B.Comm. student Andrea Pavia and now run through Career Services, the program pairs students with industry sponsors on a one-to-one basis for a day each winter. This gives students an opportunity to gain on-the-job experience, explore their interest in a specific career path and network with others in their field. The participating U of G alumni and friends get a chance to support current students by sharing their experiences and insights. The students pay a nominal fee to participate.

Pavia, a sixth-semester Hafa student, initiated the program early in her university career because "I wanted to know what my options would be on graduating, so I could gear my course selection to prepare me for that. Most important, I wanted to confirm before spending thousands of dollars for an education that that particular career was where I wanted to be. I think those are questions most students have, and the job-shadow program can provide them with answers."

Supported by the U of G Alumni Association and Alumni Affairs, Pavia lines up industry sponsors and students in the fall for a "shadowing" experience in the winter semester. The program started with 10 pairings in its first year and has since grown to 50.

Chantale Piche, a fourth-semester OAC student majoring in agricultural business, "shadowed" a manager at the main office of the Ontario Ministry of Agriculture, Food and Rural Affairs in Toronto last winter. She was so impressed with the program that she hopes to sign on again.

"It was a great learning experience and it strengthened my resolve to finish my program be-



Hafa student Andrea Pavia (bottom), initiator of the job-shadow program, is seen here with her own shadow, senior peer helper Melanie MacPherson. MacPherson will continue the program when Pavia graduates in 1997. Photo - Kerith Waddington, University Communications

cause I saw that agriculture was indeed the field I want to be in," says Piche. "Talking to several people during the day, I was able to gain a better sense of job opportunities open to graduates of my program, which was encouraging."

Hafa '83 grad Susan Devins, director of marketing at Four Seasons, Toronto, has hosted "shadows" over the last two years and says she wishes such an opportunity had been available when she was at Guelph.

"As a student, I thought it would be helpful to have hands-on time experiencing and observing day-to-day career responsibilities, so I'm pleased to be able to give back to the University in this way," she says. "Perception of the workplace is often very different than the reality, but the program is helpful in providing a snapshot of what it is actually like."

Such experiential learning is something all undergraduates should have, says Andre Auger, director of the Counselling and Student Resource Centre.

"In the classroom, students are

given interpretations of data, but don't often have the chance to take new information and make sense of it themselves in a work setting," he says. "That is a skill that is needed and valued in the workplace. By providing experiential learning opportunities in a very affordable way, the job-shadow program is one answer to what was identified in the strategic-planning report as an educational objective. And the fact that it is a program run by students for students makes it exceptionally well equipped to continue to meet their needs."

Trish Walker, director of Alumni Affairs, believes the program is a great way for alumni and friends of U of G to reconnect with the institution and stay involved.

"The program is a wonderful opportunity for the extended U of G family to work together for the betterment of all," she says.

Students or alumni interested in joining the program can call Ext. 4797 or drop by Career Services on Level 3 of the University Centre. □

The final oral examination of PhD candidate **Timothy Anderson**, Veterinary Microbiology and Immunology, is Nov. 23 at 9 a.m. in VMI 101. The thesis is "Characterization of the LacZ, GalK and GalM Genes of *Actinobacillus pleuropneumoniae*." The adviser is Prof. Janet MacInnes.

The final exam of **Carolyn Neilson**, a master's candidate in the division of family relations and human development in the Department of Family Studies, is Nov. 27 at 9 a.m. in the Marriage and Family Therapy Centre. The title of the thesis is "Coping Strategies Following Sexual Harassment: A Study of Female Graduate Students." The adviser is Prof. Judy Myers Avis.

The final examination of **Lou**

Fedorkow, a master's candidate in the Department of Rural Extension Studies, is Nov. 27. The seminar is at 1 p.m. in Room 101 of the MacLachlan Building, followed by the defence in Room 228. The title of the major paper is "Rationalizing Together: The Deconstruction and Distribution of Institutional Extension." The adviser is Prof. Mark Waldron.

The final examination of PhD candidate **Robert Froese**, Chemistry and Biochemistry, is Dec. 12 at 10:10 a.m. in Room 222 of the MacNaughton Building. The thesis is "Theoretical Studies of Organic Systems." The adviser is Prof. John Goddard.

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

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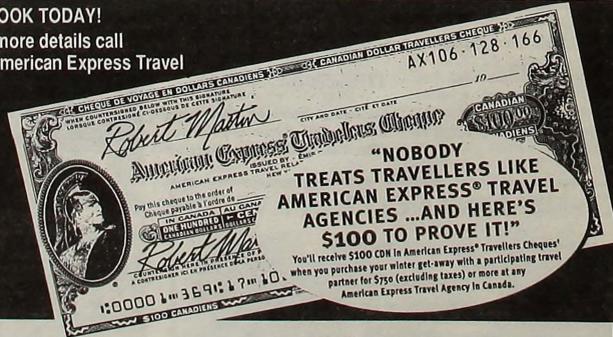
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