UNIVERSITY of GUELPH

At Guelph

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University/OMAF contract shows significant shortfall for 1990/91

by Owen Roberts, Office of Research

There will be an $850,000 shortfall in the 1990/91 contract for research and services between U of G and the Ontario Ministry of Agriculture and Food.

Dean of Research Larry Milligan says an additional $2.25 million was needed over last year's contract of $31 million to keep pace with all the research and services offered under the contract, but the province has provided only $1.4 million, for a total contract value of $32.4 million.

"This is not the shortfall we initially feared," he says. "We thought it might be as high as $2 million. But clearly there has also not been the support required from the Province of Ontario to maintain the contract at its present level."

Milligan says about $350,000 will be cut from the contract's research component in areas to be determined by the individual colleges involved in research supported by the OMAF contract — OAC, OVC, the College of Physical and Engineering Science, the College of Biological Science and the College of Social Science.

"These cuts will be accomplished by a combination of cancelling positions and by selected decreases in operating dollars," says Milligan. "This means sections of programs will be stopped."

The rest will come from the disbanding or cost recovery of free or highly subsidized service programs such as the popular pest diagnostic service and ram and bull testing.

"We'll either work towards recovering the costs of these services or we'll have to stop offering them," he says.

The shortfall is the result of several factors, including salary and benefits increases, a four-per-cent allowance for inflation in both operating expenditures and a $420,000 jump in employer contributions to health care, unemployment insurance premiums and pay equity.

The contract between OMAF and U of G is unique in Canada. It is the largest agreement for agricultural research and services between any government ministry and university in the country. It involves the research efforts of 240 faculty, an agricultural diploma program and extension services through OAC, OVC and Independent Study.

Recent research achievements that can be attributed to support from the contract include a vaccine against shipping fever in cattle, advances in animal welfare, animal embryo transfer technology, artificial seeds, improved public health through the control of diseases like salmonella and the biological control of insects and pests.

The contract began as a $7.5-million commitment from OMAF some 20 years ago. Since then, it has grown to become the single largest component of U of G's $54-million research support from external sources, solidifying the University's standing as one of the top three research-intensive educational institutions in Canada.

Milligan says he doesn't expect the shortfall in the OMAF contract to alter the University's nationwide research standing.

"We'll keep moving ahead," he says. "Other important areas of support — such as that from the Natural Sciences and Engineering Research Council and interaction with industry — are at record levels this year. This year's funding of the contract is a direct reflection of a shortfall of provincial government funding of the Ministry of Agriculture and Food."

Milligan doubts that there is popular consensus for the province's shrinking support of agriculture and food and the consequential constraint on funding.

"At this time of major continental and international competitive challenge for the agri-food system, and the proven record of this sector in the rapid transfer of research results into practice, it's greatly disturbing to see this decrease in emphasis in research," he says.

"In view of the agri-food sector's role in providing jobs, contributing to Canadian exports, ensuring environmental stewardship, and providing and maintaining the highest food quality in the world, I don't think this is a trend that Ontario citizens will appreciate." ❐

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Issue cancelled

At Guelph will not be publishing May 23. Anyone wishing to submit information about events falling within the May 23 time period should send it to *At Guelph* by May11. ❐

Astronaut to be honored

Astronaut and U of G graduate Roberta Bondar will receive an honorary degree at spring convocation June 8 at 2:30 p.m. Watch *At Guelph* next week for more details about convocation. ❐

Recycle This Newspaper

GUELPH SPRING festival

At Guelph

Two faculty named to Royal Society

Two U of G professors have been elected fellows of the Academy of Science of the Royal Society of Canada. Prof. Chris Gray, Physics, and Prof. Ken Kasha, Crop Science, are among 30 Canadians being recognized for their contributions to research.

Kasha, who joined U of G in 1966, has made a number of important contributions to improving crop plants. He developed a method of making haploid barley plants from immature embryos — a technology that has been commercialized and is in use in many countries.

He has also done research on haploid wheat plants and work in plant cell cultures. He is the Canadian co-ordinator of a joint Canada-U.S. project to map the barley genome, which involves about 50 researchers in the two countries.

Gray, a Guelph faculty member since 1969, specializes in the molecular theory of liquids. He is currently on sabbatical writing the second volume of *Theory of Molecular Fluids* with a colleague at Cornell University.

His ongoing research projects use large-scale computer simulations to study the surface of water, spectroscopy of interacting gas molecules and the relation between transport properties of liquids (such as viscosity and heat conductivity) and chaos.

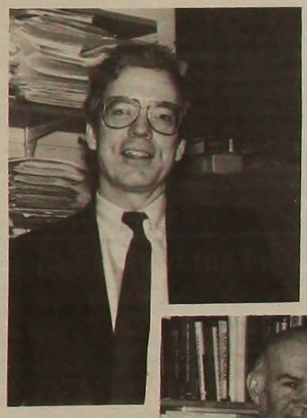
He says that being elected to the society speaks highly of the quality of his collaborators and the support he receives from his department.

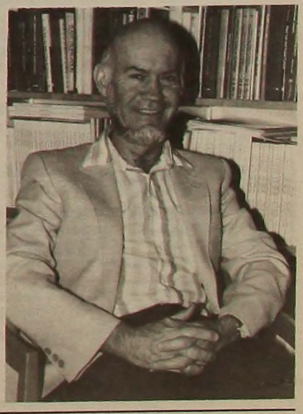
"There's a very good atmosphere for both teaching and research in the department, allowing faculty members to develop their own strengths," says Gray, who studied at Queen's and the University of Toronto. He is the fifth professor in the Department of Physics to be elected to the society.

Kasha, who studied at the universities of Alberta and Minnesota, holds an honorary degree from the University of Calgary. In 1983, he received the Ernest C. Manning Award for outstanding innovation by a Canadian. He also says he's had much support from his department and the University, as well as from external sources such as the Ontario Ministry of Agriculture and Food.

It's a "real honor" to be named a fellow, he says. "The thing we need in Canada is strong voices in science, and the society can provide a strong voice."

Candidates for the Royal Society of Canada are nominated by three members of the society and voted on by its members. ❐





Left: Chris Gray. Below: Ken Kasha.

Photos by David Thomas, External Relations

University of Guelph Library
Building hours and reference service
Spring 1990

U of G Library	Building hours	Reference service available	Reference service hours
May 9 to Aug. 5			
Monday to Thursday	8:30 a.m. to midnight	Full	8:30 a.m. to 9 p.m.
Friday	8:30 a.m. to 10 p.m.	Full	8:30 a.m. to 4:30 p.m.
Saturday/Sunday/Holidays	9 a.m. to 10 p.m.	None	N/A
Aug. 6 to Aug. 14			
Monday to Thursday	8:30 a.m. to midnight	Full	8:30 a.m. to 9 p.m.
Friday	8:30 a.m. to 10 p.m.	Full	8:30 a.m. to 4:30 p.m.
Saturday/Sunday	9 a.m. to 10 p.m.	None	N/A
Aug. 15 to Sept. 3			
Monday to Friday	8:30 a.m. to 7 p.m.	Full	8:30 a.m. to 4:30 p.m.
Saturday/Sunday/Labor Day (Sept.3)	Noon to 7 p.m.	None	N/A

Veterinary science section	Building hours	Reference service available	Reference service hours
May 7 to Aug. 14			
Monday to Thursday	8:30 a.m. to 10 p.m.	Full	8:30 a.m. to 4:30 p.m.
Friday	8:30 a.m. to 5 p.m.	Full	8:30 a.m. to 4:30 p.m.
Saturday/Sunday	1 to 5 p.m.	None	N/A
Statutory holidays	**Section closed**		
Aug. 15 to Sept. 3			
Monday to Friday	8:30 a.m. to 5 p.m.	Full	8:30 a.m. to 4:30 p.m.
Saturday/Sunday/Labor Day (Sept. 3)	Section closed	None	N/A

SERVICE TO AGRICULTURE HONORED

Bob Hunsperger, left, a 1968 graduate of OAC, is the recipient of the 1990 OAC Outstanding Service Award. He has a family-owned, 400-sow farm and was recognized for his pioneering work in computerized record and management systems for livestock and crop production. He has also lectured to OAC students. Pictured with him at a recognition banquet are, from left, his wife, Margaret, Grace McEwen and OAC Dean Freeman McEwen.

Photo by Ken Barton

Summer hours

Summer hours will be in effect at U of G from June 4 to Sept. 3. All University offices must remain staffed to an operationally acceptable level between 8:30 a.m. and 4:30 p.m. daily, or as directed by the college or directorate. ❐

At Guelph

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Letters to the editor

B of G decision causes apprehension

In the May 2 *At Guelph* report on the Board of Governors meeting, the article about the board's discussion of proposed maternity leave changes mentions that the removal of a waiting period for eligibility for maternity leave was designed to remove obstacles to the recruitment of female employees.

That is not completely accurate. The proposal was for removal of the waiting period for eligibility for paid maternity leave for female faculty *only*. Because this proposal would "replace one form of discrimination with another," it was decided to send it to committee for further study.

I was also interested to read that the board removed the qualifier of "one-time only" from the pension contribution reduction proposal. The removal of the qualifier fills me with deep apprehension. Going to the well too often can only lead to an empty well — no matter what the intent of the present board.

When board members make statements to the effect that they would have been within their *legal right* to make a one-sided holiday, I am left with a very uneasy feeling. Legal, maybe, but we are partners in the pension plan, and surely no partner would exercise a *legal right* over a moral obligation to treat a partner fairly.

Sheila Trainer,
Department of Zoology.

Books

Food security 'invisible problem'

by Margaret Boyd

About one billion people — one-fifth of the world's population — don't get enough to eat each day, a reality that Prof. Hans Bakker, Sociology and Anthropology, calls "an invisible problem."

It's invisible because most Canadians only think about hunger in terms of large-scale famine, and what they know about famine is just what they've read or heard on the news. "They don't think about the day-to-day problems many people face," says Bakker, editor of the recently published book *The World Food Crisis: Food Security in Comparative Perspective*.

The goal of the book, a collection of 15 scholarly research studies on issues related to food security, is to make people more aware of the diverse nature of the hunger problem, he says.

"It is not a simple problem with a simple solution. There is a complex interplay of economic, social, cultural, political and ecological forces at work."

World hunger has worsened in the 20th century, despite modern technology and improved global communication. This is partly due to military upheavals, population expansion, expanding global markets (stressing the need for cash crops for export) and increased environmental degradation leading to "natural factors" such as drought.

"People have ignored the basic need for food," says Bakker. "Even minor changes in our approach to food policy could have significant effects. But because it is an invisible problem, few people in the developed countries actually worry about it."

He would like to see the same attention paid to victims of world hunger as to victims of political oppression through an organization similar to Amnesty International.

"Everyone in the world should have secure access to nutritious food," he says, noting that this is a human right recognized by the United Nations.

Factors such as financial disruption, the breakdown of political systems, natural disasters and cultural constraints contribute to world hunger. A hierarchal distribution of food also creates food insecurity. In many parts of the world, for example, men take the best food and leave the rest for the women and children.

Another high-risk situation exists in regions where people are totally dependent on the food they produce. In these isolated regions, seasonal hunger is an ever-present threat, Bakker says. These complexities are reflected in the book's case studies. There are chapters dealing with native people in Canada, smallholders in North Carolina and peasant cultivators in Africa, Manchuria, Latin America and Indonesia.

The book also explores the issues of the "blue revolution" (modernization of fisheries), technology, foreign donor assistance and food aid. The final chapter, by John Mellor of the International Food Policy Research Institute, proposes a large-scale action plan to end hunger and food insecurity.

Bakker, author of an introductory chapter, notes that solutions to the problems will "require the co-operation of regional and national level governments, and international agencies."

The idea for the book came out of an international conference on the world food crisis held at U of G in 1986. Submissions were solicited from experts on food security issues, and about 30 contributions were received.

Sergio Trinidade, director of the UN Centre for Science and Technology in Development, wrote the preface on science and technology and food security.

The World Food Crisis: Food Security in Comparative Perspective is published by Canadian Scholars Press. ❐

U of G looks at innerspace

Committee makes recommendations on campus space needs

by David Thomas

A special advisory committee on space allocation has made several recommendations for building space use and capital projects over the next few years to help alleviate some of the chronic space shortage problems at U of G.

The President's Advisory Committee on Space Allocation, set up two years ago by then-president Burt Matthews, sought input from the University community to define and prioritize space needs across campus, says committee member Prof. Leonard Conolly, acting vice-president, academic.

"We recognize that it's not possible to meet all the legitimate space needs the University faces," he says. "We have to manage with the resources we have or those we realistically expect to receive in future. But after consulting with building users, the committee has identified a number of pressing needs and made a number of recommendations we believe will be helpful."

Reviewed projects

The committee reviewed capital projects that are planned or under way, suggested extensive renovations to existing facilities and made recommendations on the reallocation of space that will become available when the environmental biology/horticultural science complex opens in 1991. A series of committees and task forces has been set up to work on individual recommendations.

Many units in need

The committee's report notes that needs exist in many colleges and administrative units on campus. In the colleges, "there is a general need for offices for faculty, research personnel and graduate students, and a very large demand for expanded research facilities," the report says. For example:

- The colleges of Social Science and Arts "suffer from lack of office space for graduate students and academic visitors. And the four departments (that) use laboratories and/or studios (Fine Art, Drama, Geography and Psychology) are not well served in buildings (that) are not designed for such activities."
- FACS is "clearly in dire need of assistance, both to renovate existing space and to provide new space for the recent and continuing expansion of activities."
- OAC "has a particularly urgent problem in the Department of Food Science."

The report also identifies needs for more undergraduate lab space, common spaces and lounges across campus, graduate student work areas, an ecumenical religious centre, additional space for student services such as international student and mature student counselling, space for initiatives such as the University College Project and AKADEMIA, and improved fish and animal-holding facilities.

Addressing those problems isn't easy, says Conolly. "We realize that our recommendations are short-term solutions. Long-term problems can be met only by obtaining funding for new academic buildings. While we are optimistic we'll get funds in the medium term from the government for a new academic building, some things have to be done now."

The opening of the new environmental biology/horticultural science complex will make things easier, he says. "A significant number of the recommendations contained in the committee report hinge on that building opening on time. It's sort of a domino effect from then on."

When the complex opens, space will be freed up in the Horticultural Science, Chemistry and Microbiology and Crop Science buildings, as well as the Zoology Annex.

Move for Geography

The report recommends that the Department of Geography, which has insufficient space in the MacKinnon building and Day Hall, move into the Horticultural Science building until the University's proposed general-purpose academic building comes onstream. That would free up space in MacKinnon for departments that need the space for PhD programs. The move could be made with little or no renovations to the building, the report says.

The space currently occupied by the Department of Environmental Biology in the Chemistry and Microbiology building will be reassigned by another committee, the Space Allocation Committee. It would pay particular attention to the needs of the departments of Chemistry and Biochemistry and Microbiology, the report says.

Space now occupied by Environmental Biology faculty, staff and students in the Crop Science building will also become available when the complex opens. The report suggests that this space be committed to labs for undergraduate plant science courses and studio space for the School of Landscape Architecture. Any remaining unallocated space should be used to meet the needs of the departments of Crop Science and Land Resource Science.

When the Department of Geography leaves Day Hall, there will be enough room in the hall to allow Teaching Support Services to consolidate its operations there. The Instructional Support Group, part of TSS, now occupies space in Blackwood Hall that could be freed up to allow Creative Services, currently located in the University Centre and Blackwood, to consolidate in Blackwood.

First priority

The advisory committee identified many other major space requirements. The new general-purpose academic building has been accorded first priority in the University's submission to the Ministry of Colleges and Universities, the report says.

In the shorter term, however, committee members agreed that the University's most pressing space need is in the Department of Fine Art. The Zavitz Hall renovation project, already committed, is consistent with the committee's space priorities, the report says.

Shortages in the FACS building also stand out, says Conolly. Funds from *The Campaign* earmarked for the FACS addition fell short of the goal, but a number of carefully planned expansions will be made.

"We're avoiding Band-Aid solutions by setting priorities and not trying to accomplish everything at once," he says. "We want to make good use of the resources we have. We can't afford to wait any longer to alleviate space problems in FACS."

Other priorities named in the report are completion of the Athletics Centre, including construction of a new pool, and renovations to Massey Hall to alleviate long-standing space problems for the Department of Drama.

Improved facilities

The committee proposes that funds raised for the addition to the library be allocated instead to a project about to get under way to improve facilities for the University's archival and special collections.

The Food Science building, which underwent some renovations earlier this year, still has many space needs. U of G is seeking to work with industry to raise money for further improvements to the building, Conolly says.

There will be some additional space available in OVC when the college's learning centre opens, but it will have to be renovated to meet the college's needs and current building codes, the report says.

The committee also proposes an ecumenical religious centre be set up to "provide for the needs of the various religious groups on campus and accommodate the office and meeting room space required for Campus Ministry programs." It could be located in Drew Hall.

There is also a need for space to ease the overcrowding in the University Centre. A study is to be done on the possibility of a UC annex, which might be located on the current greenhouse site. The committee also recommended looking at how modular buildings or low-cost additions might be used to deal with immediate space pressures.

The President's Advisory Committee on Space Allocation was chaired by Prof. Jack MacDonald, academic vice-president, who is currently on administrative leave. The other members were Conolly; Prof. Wayne McDonnell, Clinical Studies; Prof. Carole Stewart, Philosophy; Prof. John Laing, Environmental Biology (until January 1989); Prof. Doug Larson, Botany (since January 1989); Graduate Studies Dean Doug Ormrod; CSS Dean John Vanderkamp; Charles Ferguson, vice-president, administration; Brian Sullivan, associate vice-president, student affairs; and Al Brown, director of Physical Resources.

Committees established

The committees studying the individual proposals follow:

- New academic building — Conolly is chairing a committee that is writing an academic brief for the proposed structure.
- Athletics Centre — Brown is chairing a building committee.
- Ecumenical religious centre — Sullivan is heading up a feasibility study on locating the centre in Drew Hall.
- UC annex — Sullivan heads a group studying this proposal.
- Geography move to Horticultural Science building — Conolly is working with Vanderkamp on the move.
- Crop Science building space — Conolly is working with the plant science group to study the undergraduate lab proposal. He is also discussing studio possibilities with Prof. Walter Kehm, director of the School of Landscape Architecture.
- Schedule of major renovations — Brown is co-ordinating schedule preparation.
- Modular buildings/low-cost additions — Brown is co-ordinating this study.
- Archival/record storage — Chief librarian John Black is studying this issue.
- Food Science building expansion — OAC Dean Freeman McEwen is chairing this committee.
- FACS addition — FACS Dean Richard Barham is heading a planning group.
- TSS/Creative Services consolidations — Don McIntosh, acting director of TSS, is heading the study of this proposal.

Any members of the University community wishing to have input into the planning of these changes should call Conolly or the chairs of the planning committees. ❐

Task force begins work on equity census for fall

The latest step in U of G's efforts to attain employment equity on campus is the creation of an Employment Equity Census Task Force.

Chaired by chief librarian John Black, the task force will be meeting regularly over the next few months to advise the Employment and Educational Equity Office on the design, implementation and use of an employment equity census. The census, to be taken on a single day in early fall, is required under the terms of the Federal Contractors Program.

Under that program, any organization that has more than 100 employees and wants to bid on federal contracts of $200,000 or more must sign a certificate of commitment to employment equity. That means employers must identify and remove artificial barriers to the selection, hiring, promotion and training of women, native people, people with disabilities and visible minorities. They must also devise special measures to increase the participation of these groups at all levels of employment.

Before employers can do that, however, they must first have a clear picture of the people who are working for them, says Black. That's where the census comes in. It will provide a "snapshot" of the University workforce that will show Guelph where it is now and where it should be going. It will also serve as a "before" picture that will allow the University to monitor its progress in the months ahead, he says.

In addition to Black, the census task force consists of representatives of all employee groups on campus, a census data manager, a Personnel Department representative, a secretary, the employment and educational equity co-ordinator and administrator, and additional resource persons.

Because of the importance and sensitivity of the census, it's vital to have advice and input from all sectors of the University, says Heather Heath, employment and educational equity administrator. "We're asking questions that have never been asked before, so we want to seek advice on how best to get the answers."

In that advisory role, the task force will consider such issues as the information to be requested by the census, the design of the census questionnaire, the confidentiality of the census and the maintenance and use of the census information. The task force will oversee the entire census process from design to implementation to analysis. Separate administrative groups have been appointed to implement the census and to manage and analyse the data.

In addition, the task force will also play an important role in providing information about the census process and its purpose, says Black. Members of the task force will be available to answer any questions from members of the University community.

Before beginning their work last month, members of the task force attended an employment equity census workshop on campus. Speakers included Paul Scott, director of equal employment opportunity for Metro Toronto; Anita Dahlin, director of systemic investigation with the Ontario Human Rights Commission; Neil Gavigan, director of the Federal Contractors Program; and Fresia Perez of Employment and Immigration Canada's employment equity consulting service.

Anyone wishing to know more about the equity census can contact any member of the task force. In addition to Black, who can be reached at Ext. 2181, and Heath, who is at Ext. 3474, the members are:

- Robin Begin, Security Services, Ext. 2245;
- Roland Chrisjohn, Department of Psychology, Ext. 2104;
- Tara Curtis, Department of Family Studies, Ext. 3968;
- Brian Dobrindt, Central Utilities, Ext. 2474;
- Linda Gerber, Department of Sociology and Anthropology, Ext. 2511;
- Kathy Hogan, Budget Office, Ext. 3836;
- Micki Jones, U of G Library, Ext. 2075;
- Gilian MacPherson, School of Human Biology, Ext. 3024;
- Richard Phidd, Department of Political Studies, Ext. 3341;
- Carmelina Ridi, College of Social Science, Ext. 3077;
- Murray Stinson, Institutional Analysis and Planning, Ext. 2751;
- Cal Swegles, Employment Services and Training, Ext. 6509;
- Pauline Thompson, Housekeeping, Ext. 3041; and
- Janet Wood, Employment and Educational Equity Office, Ext. 2138. ❐

The Board of Governors

by David Thomas

The University of Guelph exists in a dynamic environment. Managing the University and its $232-million annual budget is an ongoing, evolving process. And the role of the Board of Governors is evolving along with it.

According to the University of Guelph Act, B of G is responsible for "the conduct, management and control of the University and of its property, revenues, expenditures, business and affairs." In the last year, the board has changed its committee structure to better accommodate these many different areas.

At a retreat in 1989, board members discussed how they could best serve the University's different constituencies and the institution's best interests, says chair Ian Murray.

"With a new president and a new chair of the board, it was an ideal time to look at our mandate and modus operandi to ensure that the board was performing well," he says.

"We had to redefine our mandate — and that's a moving target in a university. We went through an intense review and found there were some things we hadn't given enough attention to."

This resulted in an expanded number of committees focusing on specific concerns and an increase in the number of board meetings. That has meant an increased workload for members, says Murray, but the changes are designed to broaden the participation of board members. The new committee structures help "speed up the whole process," he says.

The board consists of 24 members, including Murray and vice-chairs Bill Brock and Solette Gelberg. Other members are Bill Brohman, Lloyd Cummins, Jim Hunter, Prof. Bev Kay, Elizabeth Macrae, Clara Marett, Michael McMillan, Patrick Morris, John Morrison, Bernard Ostry, Bill Pattison, Maureen Sabia, Prof. Frances Sharom, Donald Shaver, Prof. Sam Sidlofsky, Adrian Smith, Brian Van Camp and David Weinberg. The board membership also includes the president and the chancellor of the University. University secretary Barbara Abercrombie is secretary to the board. Andrya Schulte of the Secretariat's Office is the program officer responsible for co-ordinating the work of board committees.

New standing committees have been added for external relations, board long-range planning, senior compensation and negotiations. The board maintains its executive committee and standing committees on finance, physical resources and property (formerly the planning and property committee), membership, pensions and benefits, and audit. There is also an *ad hoc* committee on endowment.

"The new committees are areas in which the board should play an active role in both the short- and long-term direction of the University," Murray says.

External relations

Interacting with external communities is more important than ever, says Murray. The committee on external relations is necessary because "we recognized that there were some communities we needed to be more aware of, such as the business community and employers in the private, public and voluntary sectors. We need to communicate to them that universities are not ivory towers, isolated from reality, but that we are ... concerned and relevant institutions committed to economic development, as well as the personal and intellectual growth of thousands of students."

How the University relates to its environment will have significant implications for the future, says Ostry, who chairs the seven-member committee. The initial task of the committee is to "determine the direction in which we're going," he says.

"We have to find out what has to be changed, what the image is that the University wishes to project over the next few years. What the University community thinks that image ought to be will affect how the University approaches donors in the private sector. It affects how we will attract students, faculty and staff."

U of G is known for its traditional academic strengths, says Ostry, but it also has many other strengths to build on. So the committee will "try to develop a set of communication tools we will use to communicate that image when approaching government, industry and students."

The committee's activities include monitoring changes in government policies that affect the University, working with other boards of governors and reviewing communication programs to see how effective they are in communicating U of G's image.

Long-range planning

The board's long-range planning committee is "very important in helping the University in setting and meeting its goals," Murray says.

It's responsible for making sure the University planning process sets out priorities, long-term objectives and an annual plan to be used as a basis for budget development. The three members of the committee also serve as the board's representatives on the University Planning Committee.

Committee on negotiations

With more than 4,000 full- and part-time staff, U of G commits about 80 per cent of its budget to salaries and benefits. B of G's negotiations committee shapes the policy on the University's strategy for negotiating salary agreements with employee groups.

The three members also review negotiated settlements and monitor agreements at other universities to determine Guelph's comparative position within the system.

Senior compensation

The senior compensation committee is authorized by the board to negotiate and establish compensation arrangements with senior management.

The three-member committee, which includes the chair and at least one vice-chair of the board, reviews the arrangements annually and reports to the board on its operating guidelines.

Executive committee

The executive committee is responsible for a number of administrative functions, such as setting out board structure, bylaws and schedules. It also acts on behalf of the entire board between meetings to deal with urgent matters. Resolutions go to the executive committee before going to the board.

The eight-member committee includes the president, the board chair (who chairs the committee) and vice-chairs, as well as the chairs of the finance and physical resources and property committees.

Finance committee

The finance committee is charged with ensuring the University's fiscal responsibility. It reviews the financial budgets, recommends their approval to the board, compares subsequent actual financial results with budget projections and advises the board of any major discrepancies and actions to be taken.

The University maintains several separate budgets, including the operating, plant and equipment, University Centre, endowment and other support services.

The finance committee has always been an important one, says Brock, who chairs the committee.

"The board has the ultimate responsibility of deciding how the scarce financial resources are allocated, given that the government is the principal source of funding and keeps the University under tight fiscal restraint," he says.

"In the final analysis, having successful academic and research programs is dependent on the funding available."

Members of the eight-person committee may not simultaneously sit on the audit committee.

Audit committee

Correspondingly, members of the audit committee cannot sit on the finance committee. This is to ensure separation of the functions, says chair Pattison.

The audit committee co-operates with the University's external and internal auditors to guarantee consistent financial accountability. Recommendations from the external auditors go to the committee, which monitors their implementation.

"The committee is there to make sure it (the audit process) gets done well," says Pattison. "We don't write the cheques, but we do ask a lot of questions."

Physical resources and property

The physical resources and property committee, chaired by McMillan, is responsible for decisions about the physical environment of the University, including expansion, land use, maintenance and replacement of capital assets, as well as esthetic considerations.

The members are also involved in planning for future physical needs of the campus as a learning environment, and in seeking optimum financial returns from properties. The committee considers the activities of the Real Estate Division.

One of its most important functions is the prudent development of properties designated as excess to the University's foreseeable academic needs, says McMillan.

These sites include the Research Park, the Puslinch gravel pit, Old Stone Estates, the Village by The Arboretum, a 26-acre parcel of land surrounded by strip development across from Stone Road Mall, a 22-acre parcel at the northeast corner of Edinburgh and Stone roads, and a seven-acre property at the southeast corner of College Avenue and Edinburgh.

Ownership of all these lands, except for the 26-acre Stone Road property and Old Stone Estates, will remain in the University's hands for eventual use in the distant future. In the meantime, the net cash flow from these developments will enrich the endowment of the University, McMillan says.

Pensions and benefits

This committee's functions include devising and reviewing guidelines for use by investment managers and ensuring those guidelines are met, says committee chair Gelberg. It is involved in monitoring employment policies with respect to pensions and benefits.

University officers such as the vice-president, administration, the executive manager of pensions and investments, the director of Personnel and key Personnel Department staff attend the committee's meetings to act as resource people for the committee. This makes "the whole information process flow more efficiently," Gelberg says.

"Pensions and benefits are an important part of what happens at a University, but they don't exist in isolation," she says. "They have to be balanced against the other financial demands of the University."

Membership committee

The University of Guelph Act calls for a balanced board membership of people from a diverse range of backgrounds, says Hunter, chair of the membership committee.

The act also calls for four people to be appointed by lieutenant governor-in-council, and up to 18 elected or appointed members, including three faculty, four non-faculty graduates, two full-time students and one full-time member of non-teaching staff.

The committee proposes nominations to fill vacancies on the board, paying particular attention to the University's traditional constituencies, which include agriculture, veterinary medicine, business, the arts and sciences and the local community.

It also reviews and recommends changes to election policy and makes recommendations to the board concerning the election of students, faculty and staff members, following elections held by those constituencies.

Anyone wishing to know more about the board and its committees can call the University Secretariat at Ext. 6759. ❐

Members of Board of Governors, seated from left to right, are Prof. Sam Sidlofsky, John Morrison, Lloyd Cummins, Bill Brohman, Clara Marett, Adrian Smith and Elizabeth Macrae. Standing are Bill Pattison, Prof. Bev Kay, Michael McMillan, President Brian Segal, Solette Gelberg, David Weinberg, Bernard Ostry, Prof. Frances Sharom and Pat Morris. Absent: Ian Murray, Bill Brock, Jim Hunter, Maureen Sabia, Donald Shaver and Brian Van Camp.

Photo by Herb Rauscher, Photographic Services

On the road for a good cause

Nutrition student helps raise money for kids with cancer

by David Thomas

Neil MacKenzie is combining his love of cycling and his expertise in sport nutrition to support a worthy cause — he's accompanying a cyclist across Canada to raise money for kids with cancer.

A graduate student in applied human nutrition, MacKenzie is taking a leave of absence from his studies as he and nurse Wendy Murphy travel from Newfoundland to British Columbia with Waterloo cyclist Ron Wolf.

They left Cape Spear, Nfld., May 1. By the time they arrive in B.C. at the end of July, they hope to have raised $2.7 million for the Ride for a Child campaign, which is sponsored by the Childhood Oncology Help Fund (COHF).

For athletes performing under heavy endurance — Wolf is riding about 150 kilometres a day — it's essential to have the right diet, says MacKenzie. He's monitoring Wolf's diet and recording physiological data during the trip to make sure the athlete stays in tip-top shape.

COHF organizers approached MacKenzie last fall to see if he would provide nutrition counselling for the cyclist, but he soon got a lot more involved. "I'm an avid cyclist myself, so Ron asked me to go along on the ride," he says. "I'll be cycling about four or five hours a day."

MacKenzie has had a lot of involvement with sports. He got his undergraduate degree in physical health and education at Laurentian University. His thesis research at U of G on body composition assessment using anthropometric measurements involves working with the University's varsity soccer, hockey and basketball teams.

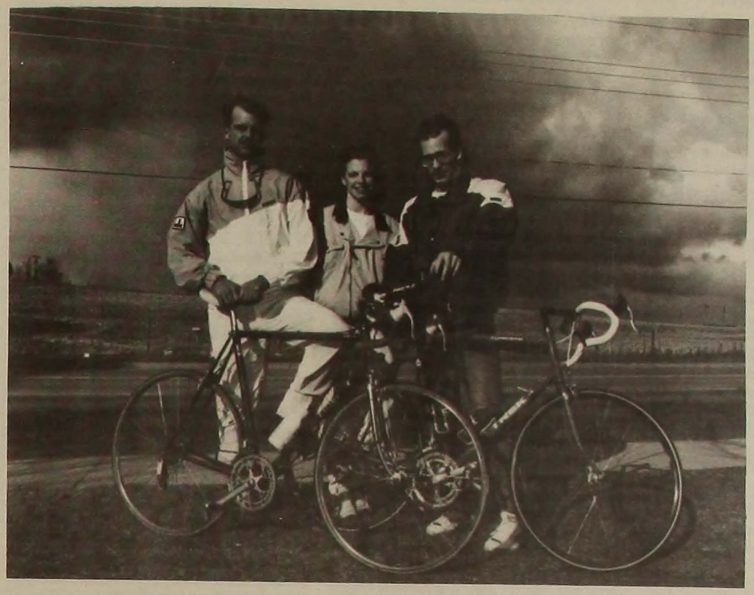
In addition to his nutritional duties on the trip, MacKenzie is buying the groceries along the way, keeping track of the donations as they come in and performing any athletic therapy that's necessary, such as massages or prophylactic taping.

"This sort of expands the role of the nutritionist," he says. "Typically, a nutritionist is thought of as somebody who is either involved in diet counselling for overweight people or hospital patients, nutrition education or policy formulation."

Despite these expanded duties, however, nutrition counselling remains MacKenzie's central role on the trip. He's weighing everything Wolf eats, logging the distances and type of terrain travelled, and recording physiological data such as heart rate, blood pressure and skin fold (often used as an indicator of nutritional status). Murphy is doing occasional blood tests to examine iron parameters in Wolf's blood.

Before the trio left, MacKenzie did an initial body composition assessment and measured maximum oxygen uptake (an indicator of aerobic fitness) so he would have a base line for analysis. He will repeat those procedures when they get back.

"With these data, we can determine, during the course of the trip, if Ron is in energy balance — to ensure his intake meets his energy expenditure," says MacKenzie, who hopes to publish his results in a scholarly journal. He says there isn't much in the literature about endurance trips of this duration.



Applied human nutrition graduate student Neil MacKenzie, right, cyclist Ron Wolf and nurse Wendy Murphy are crossing Canada to raise money for children with cancer in their Ride For a Child campaign. They're scheduled to come through Guelph June 5.

Photo by David Thomas, External Relations

The obvious question arises: What does the cyclist need to eat to carry on day after day? Wolf is taking in about 6,000 calories a day in a diet that is extra high in carbohydrates — close to 70 per cent, compared with the normal dietary recommendation of 50 to 55 per cent. The extra carbohydrates are to maximize Wolf's glycogen stores.

"Glycogen is typically the limiting factor in exercise," MacKenzie says. "When your muscle glycogen stores become depleted, your capacity for exercise quickly declines."

While he's riding, Wolf eats foods such as granola bars, dried apricots and raisins, and drinks water with a seven-per-cent polycose solution, a carbohydrate that will help keep his blood-sugar level stable during the ride and spare essential glycogen stores for later use.

Adequate liquid intake is essential, so he's getting about 250 millilitres every 15 minutes — more when he encounters hot weather. MacKenzie says it's important to take liquids at timed intervals because thirst isn't always a good indicator of a person's state of hydration.

Besides being high in carbohydrates, Wolf's diet has a protein level of about 10 to 12 per cent and a fat level of 20 per cent. The usual dietary recommendation is 15 per cent for protein and 30 per cent or less for fat. "Fat is in just about everything, so you have to be incredibly meticulous to make sure you can keep it that low," MacKenzie says.

Wolf will be eating a lot of potatoes (but not with butter), pasta, whole-grain bread, fruits such as bananas, cantaloupe and apples, vegetables, skim milk, low-fat yogurt, Mini Wheats cereal, oatmeal and lean meats.

MacKenzie monitored Wolf's diet carefully before they left. "I wanted to find out what he likes. I wouldn't just give him something he doesn't like and say: 'This is good food. Eat it.'"

Murphy, who is driving the motor home the trio is using for the trip, is doing most of the food preparation, using *Eat Well, Live Well*, the cookbook of the Canadian Dietetic Association.

MacKenzie says he's glad to have the opportunity to help raise money for cancer, as well as to travel across the country. He says the experience will also help him in his career goal of working on nutritional counselling with professional athletes and national-level amateurs.

As a research project, the trip is a unique opportunity to study endurance in the field, he says. ❐

Helping kids with cancer

The Ride for a Child campaign of Ron Wolf, Neil MacKenzie and Wendy Murphy is sponsored by the Childhood Oncology Help Fund (COHF), a charity founded to raise funds for childhood cancer victims, their families and support groups, and the medical community.

Money raised from the trip will support patient services, education, medical services and research.

The trip has already received contributions in money, time or equipment from a number of companies and organizations, including the departments of Family Studies and Consumer Studies, the Toronto Blue Jays and the Kitchener-Waterloo Firefighters Association.

Journey's End Corp. is providing accommodation for 38 nights of the trip. Toshiba Canada donated a laptop computer to keep track of donations and Wolf's physiological data. Canada Packers is holding a competition among its plants to see which one can raise the most money.

If you would like to make a contribution — in money, time or suggestions — to the Ride for a Child campaign, call Michelle Chhatwal at the COHF office in Waterloo at 578-5606. ❐

Arts centre needs your support

THE·GUELPH·CENTRE FOR THE PERFORMING ARTS

The University has already raised more than $92,000 for the Guelph Centre for the Performing Arts — almost one-third of the way to its $300,000 goal.

"We're encouraged by the large number of donations we've received from across campus," says Prof. Terry Crowley, History, a member of the campus fund-raising committee. "We appreciate the many more we anticipate receiving in the next couple of months."

All together, more than $1.3 million has been raised towards the centre, which will feature an 800-seat auditorium/concert hall and a 250-seat theatre. That's one-third of the $3.9 million needed from individual and corporate donations. Funding from the City of Guelph, the province and the federal government will total about $7.8 million.

The University is supporting the project by committing $50,000 over a five-year period to reserve space in the centre.

Scheduled to open in 1992, the centre will be located on the site of the old Speed Skating Rink. A proposal outlining the process for selecting an architect was expected to be approved by city council May 7. A request for proposals will then go to interested architects.

The successful design will integrate the centre with the skating rink and be sympathetic to the streetscape, says Nancy Coates, chair of the building subcommittee of the Citizens' Committee for the Performing Arts Centre.

If you haven't yet been approached by a canvasser and you would like to make a tax-deductible donation by cash, cheque or through payroll deduction, call Crowley at Ext. 3211. ❐

Guelph Travel Bureau is pleased to announce that **PHYLLIS READ** has joined their staff as Travel Specialist for the University of Guelph.

Phyllis will concentrate on the University of Guelph, where she will continue to serve her established accounts, as well as inform other departments of the advantages in dealing with Guelph Travel Bureau. Along with three action-packed years in the travel business, her background includes teaching, social work and personnel.

Both Phyllis and Guelph Travel Bureau are committed to offering efficient, cost-conscious, personalized service. For total travel service, book with Guelph's oldest licenced agency, now celebrating its 38th year of service.

To find out how you can facilitate travel in your department, please contact Phyllis at **822-1410.**

GUELPH TRAVEL BUREAU

Briefly

Guelph Spring Festival

The 1990 Guelph Spring Festival continues May 11 when the Aldeburgh Connection presents *The Lonely Heart*, an exploration of the mysterious life of Tchaikovsky, at 8 p.m. at Chalmers Church. On May 12, violinist Rostislav Dubinsky will present a masterclass at 9 a.m. in Room 107 of the MacKinnon building. The Borodin Trio will perform that evening at 8 p.m. at War Memorial Hall. The Edward Johnson Music Competition will take place May 14 and 15 at 7 p.m. in Room 107; the winners of this year's and last year's competitions will perform May 16 at 8 p.m. in the same location.

Take the kids to see *Peter and the Wolf* May 18. Narrated by Veronica Tennant, with music by the Kitchener-Waterloo Symphony, it begins at 8 p.m. at Ross Hall. Celebrate the long weekend May 21 at the free Victoria Day Band Concert with the Wellington Winds. It starts at 8 p.m. at the Riverside Park Bandshell. For ticket information, call the GSF box office at 821-7570.

Medical Services hours

The summer hours of Medical Services are Mondays to Fridays from 8 a.m. to 6 p.m. until the end of August. In the event of a medical emergency when Medical Services is closed, call Ext. 2270 for the doctor on call.

Faculty Club golfing

The Faculty Club is holding its annual golf tournament June 21 at the Victoria Park Golf Club West. Entry fee is $40 per person. Registration deadline is June 14.

Computer communication featured

The value of personal communication via computers is the focus of the third Guelph Symposium on Computer-Mediated Communication May 14 to 17 on campus. The program will feature reports from three continents on the latest research and applications of computer-mediated communication. To register, call Karen Maki in Continuing Education at Ext. 3412. Some funding is available to offset the cost of attending the symposium for members of the University community. For more information, call Stephanie Bushen at Ext. 6123.

Get to know the library

The library is offering classes for students who want to learn how to use its microcomputer-based catalogue (CATS), how to use abstracts and indexes to find articles in journals (A & I) and how to use microcomputer-based abstracts and indexes to find articles in journals (MICRO). The classes are offered at the following dates and times: CATS — May 14 at 11:10 a.m. and May 22 at 2:10 and 6:10 p.m.; A & I — May 15 at 2:10 p.m. and May 23 at 11:10 a.m. and 6:10 p.m.; MICRO — May 16 at 2:10 p.m. and May 24 at 11:10 a.m. and 6:10 p.m. Sign up at the library information desk.

Stress management classes

The Stress Management and High-Performance Clinic presents classes in stress management and relaxation skills. Evening relaxation classes will run Mondays and Thursdays at 7:30 p.m. starting May 17. A new series of "work-relaxed" classes for people who work at desks and computers is being offered Mondays and Thursdays at 12:10 p.m. Both programs will take place in Room 209 of the Human Biology building. Cost is $20 for students, $90 for non-students. For more information, call Prof. Evelyn Bird at Ext. 2662.

Potters display wares

The Waterloo Potters' Workshop is holding its spring sale May 11 and 12 at the First United Church in Waterloo. It runs from 6 to 9 p.m. May 11 and 10 a.m. to 4 p.m. May 12. The church is located at the corner of King and William streets; admission is free.

EESU lecture

The Eastern Europe/Soviet Union Linkages Program presents a lecture May 11 by Boris Runov of the V.I. Lenin All-Union Academy of Agriculture in Moscow. He will speak on "Perestroika and Agriculture in the U.S.S.R." at 11 a.m. in Room 442, University Centre. For more information, call Pat Eton at Ext. 4085.

What's on at The Arboretum

The 13th annual "Spring Warbler Walk" takes place May 12 at 7 a.m., leaving from The Arboretum Nature Centre. On May 13, the Sunday afternoon guided walk series for families resumes on the theme "Spring Has Sprung" and continues May 20 with "Spring Swampwalk." Meet at the nature centre at 2 p.m. The Tuesday evening tour/talk series continues May 15 when curator John Ambrose speaks on "Rhododendrons ... in Guelph?" at 7 p.m. at The Arboretum Centre. The Wednesday evening excursion series for adults continues May 16 with "Biting 'Beasties'" at 7 p.m. and "Sunset Walk" May 23 at 9 p.m. Meet at The Arboretum Nature Centre.

At the art centre

The Macdonald Stewart Art Centre presents "Samuel Beckett Teleplays," an exhibition of videotapes of works written and, in some cases, directed by the late playwright. Organized by the Vancouver Art Gallery, the project was conceived and curated by Vancouver video artist Stan Douglas. It runs until June 3.

Distinguished lecturer

The Guelph-Waterloo Centre for Graduate Work in Chemistry presents a series of lectures by Josef Michl of the centre for structure and reactivity at the University of Texas at Austin. He will speak twice at Guelph — on "A Molecular-Sized 'Tinkertoy' Construction Set" May 14 and on "Magnetic Circular Dichroism of Cyclic π-Electron Systems" May 17. Both lectures will take place at 3:30 p.m. in Room 160 of the Chemistry and Microbiology building. Michl will also speak at the University of Waterloo May 16 on "Sputtering of Frozen Gases: Structure and Properties of the Resulting Cluster Ions." For more information, call Andrea Wetmore at 888-4653.

Talking about immunology

The Guelph Symposium on Immunology will take place May 15 from 1 to 5 p.m. in Room 1438, Clinical Studies. Speakers include Prof. Anne Croy, Biomedical Sciences; Profs. Frances Sharom and Alan Mellors, Chemistry and Biochemistry; Jon LaMarre, Pathology; Prof. Peter Pauls, Crop Science; Prof. Bill Woodward, Nutritional Sciences; Prof. Jeanne Burton, Animal and Poultry Science; and Bonnie Mallard and Prof. Pat Shewen, Veterinary Microbiology and Immunology. For more information, call Croy at Ext. 4915.

For information about placing a notice in "Briefly," call Ext. 2592.

Our people

Brian Sullivan, associate vice-president, student affairs, has been named vice-chair of the Ontario Committee for Student Affairs (OCSA) for 1990. OCSA is an affiliate group of the Council of Ontario Universities and consists of the chief student affairs officers from Ontario universities. The group's most recent initiatives include the province-wide Alcohol on Campus project.

Melody Hohenadel of the Campus Ministry has been appointed southwestern Ontario councillor for TVOntario for a three-year term. She is one of 75 volunteer councillors who meet regularly in their regions to advise TVO on how best to serve the needs of their communities.

Profs. **Michael Haywood**, **Julia Christensen** and graduate student **Iain Murray**, School of Hotel and Food Administration, have had papers accepted for presentation at the Council on Hotel, Restaurant and Institutional Education in August. Haywood and Christensen are presenting "Cross-Cultural Encounters: Enhancing Face-to-Face Interactions with Visitors and with Employers." Haywood is also presenting a paper on "Cultural Protection and Enhancement — Maori Involvement in New Zealand's Tourism Industry." Murray will be presenting "Organizational Commitment of Management Employees in Restaurant Operations" and "Attributes of Service Quality in Restaurant Operations." Murray has been awarded the H.J. Hines Graduate Degree Fellowship.

Virginia Gray, chair of the Division of Continuing Education, was recently elected vice-president of the Ontario Council for University Continuing Education. ❐

Grad news

The final examination of Peter Braunberger, Department of Land Resource Science, a candidate for the master of science degree, is May 17 at 1:10 p.m. in Room 038 of the Richards building. His thesis topic is "Phosphorus Nutrition and Vesicular-Arbuscular Mycorrhiza Colonization of Maize."

Braunberger's supervisor is Prof. Murray Miller. Interested members of the University community are invited to attend. ❐

Coming events

WEDNESDAY, May 9

Library - Orientation tour, 11:10 a.m., meet at library information desk.
OVC Seminar - "The New Ontario Wildlife Planning Strategy," Bruce Hunter, 12:10 p.m., Clinical Studies 1438.
Public Meeting - "1990/91 Operating Budget," 3 p.m., War Memorial Hall.
Cycling Club - Rockwood, 27 km, 5 p.m., meet at UC south doors.

THURSDAY, May 10

Worship - Roman Catholic Mass, 12:10 p.m., UC 533.
Library - Orientation tour, 2:10 p.m., meet at library information desk.

FRIDAY, May 11

Schedule of Dates - Last day for submission of student petitions, first meeting; last day for late registration; last day for clearance to graduate at spring convocation.
EESU Lecture - "Perestroika and Agriculture in the U.S.S.R.," Boris Runov, 11 a.m., UC 442.
Guelph Spring Festival - *The Lonely Heart*, The Aldeburgh Connection, 8 p.m., Chalmers Church, $13 to $16.

SATURDAY, May 12

Arboretum - "Spring Warbler Walk," 7 a.m., Arboretum Nature Centre.
Guelph Spring Festival - Masterclass, Rostislav Dubinsky, 9 a.m., MacKinnon 107, $5; Borodin Trio, 8 p.m., War Memorial Hall, $16 to $19.

SUNDAY, May 13

Cycling Club - Campbellville, 70 km, 10 a.m., meet at UC south doors.
Arboretum - Sunday Afternoon Walk, "Spring has Sprung," 2 p.m., Arboretum Nature Centre.

MONDAY, May 14

Lecture - "A Molecular-Sized 'Tinkertoy' Construction Set," Josef Michl, 3:30 p.m., Chemistry and Microbiology 160.
Cycling Club - Backroad Ramble, 25 to 32 km, 5 p.m., meet at UC south doors.
Guelph Spring Festival - Edward Johnson Music Competition, 7 p.m., MacKinnon 107, $5.

TUESDAY, May 15

Conference - Guelph Symposium on Immunology, 1 to 5 p.m., Clinical Studies 1438.
Habitat Guelph - Meeting, 7 p.m., Lab Animal building 108.
Arboretum - "Rhododendrons ... in Guelph?" John Ambrose, 7 p.m., Arboretum Centre.
Games Club - Chess, 7 p.m. to midnight, UC 334.
Guelph Spring Festival - Edward Johnson Music Competition, 7 p.m., MacKinnon 107, $5.
Senate - Meeting, 8 p.m., MacNaughton 113.

WEDNESDAY, May 16

OVC Seminar - "Oxytocin: A Role in the Regulation of Fertility," Claire Wathes, 12:10 p.m., Clinical Studies 1438.
Cycling Club - Fife Road (novice ride), 25 km, 5 p.m., meet at UC south doors.
Arboretum - Wednesday Evening Excursion, "Biting 'Beasties,'" 7 p.m., Arboretum Nature Centre.
Guelph Spring Festival - Concert, winners of Edward Johnson Music Competition, 8 p.m., MacKinnon 107, $5 to $7.

THURSDAY, May 17

OVC Seminar - "Pathogenesis of Retroviral Disease in Non-Human Primates," Jonathan Heaney , 11 a.m., Pathology 2152.
Worship - Roman Catholic Mass, 12:10 p.m., UC 533.
Lecture - "Magnetic Circular Dichroism of Cyclic π-Electron Systems," Josef Michl, 3:30 p.m., Chemistry and Microbiology 160.

FRIDAY, May 18

Guelph Spring Festival - *Peter and the Wolf*, Veronica Tennant and the Kitchener-Waterloo Symphony, 8 p.m., Ross Hall, $5 to $16.

SUNDAY, May 20

Cycling Club - Hespeler (novice ride), 25 km, 10 a.m., meet at UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., UC 103.
Arboretum - Sunday Afternoon Walk, "Spring Swampwalk," 2 p.m., Arboretum Nature Centre.

MONDAY, May 21

Schedule of Dates - Victoria Day, no classes scheduled.
Cycling Club - Backroad Ramble, 25 to 32 km, 5 p.m., meet at UC south doors.
Guelph Spring Festival - Victoria Day Band Concert, Wellington Winds, 8 p.m., Riverside Park Bandshell, free.

TUESDAY, May 22

Arboretum - "Water Features in the Garden," Gosling Wildlife Garden Program, 7 p.m., Arboretum Nature Centre.
Games Club - Chess, 7 p.m. to midnight, UC 334.

WEDNESDAY, May 23

Cycling Club - Eden Mills (novice ride), 28 km, 5 p.m., meet at UC south doors.
Arboretum - Wednesday Evening Excursion, "Sunset Walk," 9 p.m., Arboretum Nature Centre.

For information about placing a notice in "Coming Events," call Ext. 2592.

Close watch kept on animal research

by Owen Roberts,
Office of Research

Scientists using animals in research at U of G are subject to some tough scrutiny ... and helpful hints.

Surprise visits, detailed cross-examinations and increasingly stringent legislation ensure that researchers and research facilities are in full compliance with local, provincial and federal standards.

If they're not, the research projects are in jeopardy.

Besides the variety of external animal research checkstops in place, the University polices itself through the eyes of the campus-wide Animal Care Committee (ACC). Now in their fifth year of site visitations, representatives of the 12-person committee spend half a day at each of the on-campus animal research facilities once every six months.

Some visits entail travel off campus to where University research is being conducted at institutions like the African Lion Safari or private farms.

"People get used to seeing us, and they know we're coming to offer suggestions, not antagonize them or try to close them down," says committee secretary Prof. Denna Benn, director of Animal Care Services.

All animal research projects are screened by the ACC via research protocols (formal, written requests to use animals for research) to make sure they comply with the Animals for Research Act of Ontario (1980), *The Guide to the Care and Use of Experimental Animals*, published by the Canadian Council on Animal Care, and Guelph's own animal care policy, so members have a good idea of what to expect when they arrive on site.

"Problems we normally encounter are with facilities, not with the treatment the animals are receiving," says Benn. "For example, federal guidelines state that designated research facilities cannot be compromised whatsoever, so if someone is storing something like a cage under a table in an animal holding room, we insist that it be removed."

All ACC site visit reports are sent to the dean of research and the Ontario Ministry of Agriculture and Food's veterinary inspector in the animal industry branch. The inspector makes unannounced visits to each of the sites twice a year as well, accompanied by either Benn or ACC chair Prof. Ed Bailey, Department of Zoology.

The inspector reports his findings to the director of his branch and the director of Animal Care Services. Copies are sent to the dean of research, dean of the college the research is being conducted in, the department chair, the facility supervisor and other ACC members.

Typically, that report is a deficiency list. The committee later informs the inspector about corrections or actions the University took as a result of the report.

Every animal research facility is registered or licensed with the province according to the dictates of the Ontario Animals for Research Act. That act also empowers the inspector to withdraw the registration from a facility and close it down. (That's never happened at Guelph.)

Every three years, the University is assessed by a panel from the Canadian Council on Animal Care (CCAC), a non-governmental committee of the Natural Sciences and Engineering Research Council of Canada and the Medical Research Council. Its mandate is to ensure that federal standards for animal care and welfare are adhered to.

After spending a week on campus, the CCAC site panelists — animal care experts from other institutions in Canada, plus a representative from the local humane society — compile an in-depth report of their observations.

"The council really strives for something that's state-of-the-art, well beyond the limits established in regulations and laws," says Benn.

"It's always moving ahead — it's impossible to get a perfect review from this council. It's not that their standards get higher and higher, but they change as new research reveals different ways to perceive animal care and welfare. The council can adopt a new philosophy faster than legislation can be changed to reflect it." ❐

Welfare of animals in veal industry focus of OVC study

Public concerns about the veal industry have prompted producers, Agriculture Canada and scientists at U of G to embark on the most comprehensive Canadian study ever of veal management strategies and calf welfare.

With the support of the Ontario Cattlemen's Association, Profs. Andrew Luescher, Paula Menzies and David Waltner-Toews, Department of Population Medicine, are gathering information about special-fed veal production in Ontario.

"This is a big step towards resolving controversial issues about veal calf welfare," says Luescher. "The task assigned to us involves assessing the welfare status of the special-fed calves, but we intend to go beyond this to gain a complete understanding of the veal industry."

Data will be collected in two stages. Initially, a questionnaire is being sent to members of the Ontario Veal Association to assess the size of the operations and management systems used. Questions in the survey pertain to raising calves, their living conditions, health, feeding practices, medication, disease treatment and production.

Some of the farmers who respond to the questionnaire will be selected to take part in Phase 2, consisting of epidemiological (on-farm) studies.

"It's the first time I know of that epidemiological behavior observations are being done," says Luescher. The on-farm research will include monitoring and evaluating calf behavioral patterns on special-fed veal operations. In addition, the research team will examine the merits of different production techniques related to carcass quality and health of veal calves, including factors such as diet, housing and carcass grading.

By addressing these matters in co-operation with producers, Luescher hopes it will be possible to develop ways of accurately determining health, welfare and performance of calves in the veal industry.

This veal project is one of two being funded at OVC by the Ontario Cattlemen's Association. The other, co-sponsored by Agriculture Canada, involves a detailed study of individual veal calves on six southern Ontario veal farms to determine potential correlations between factors such as weight gain, treatment and disease.

It is being co-ordinated by Prof. Tim Blackwell, Clinical Studies, with colleagues Profs. Rob Tremblay and Dan Butler, Clinical Studies; Prof. Peter Conlon, Biomedical Sciences; and Prof. John Lumsden, Pathology.

U of G has made a major commitment to foster research in the area of animal welfare. A centre for the study of animal welfare has been approved and is being established to promote and focus research in this field. The centre will encourage contact among experts in universities, industry, animal welfare organizations, government and the public. ❐

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Awards

The Landscape Research Group at Guelph has received a citation award for outstanding achievement in research from the Canadian Society of Landscape Architects. The team of Prof. Jim Taylor, School of Landscape Architecture; Prof. John FitzGibbon, University School of Rural Planning and Development; and research assistant Stephanie Waring won for their project "Visual Assessment and Landscape Preference Analysis," which was funded by Ontario Hydro.

Uwe Schneider, a graduate student in the Department of Chemistry and Biochemistry, is the 1990 recipient of the W.B. Drowley Scholarship of the Ontario section of the Air and Waste Management Association. The scholarship is awarded for the best paper submitted in the field of air pollution or hazardous waste management. Schneider's paper was entitled "A Low-Cost Rapid Screening Assay for Polychlorinated Dibenzodioxins and Related Compounds." His supervisor is Prof. Nigel Bunce.

Khalid Abdullah, a graduate student in the Department of Chemistry and Biochemistry, was awarded a Canadian Biochemical Society graduate student travel award to present a paper at a joint symposium of the Canadian and British biochemical societies. ❐

Research news

Funding opportunities

Licensing society fellowships

The Licensing Executives Society (United States and Canada) Inc., will award four fellowships of up to $5,000 U.S. to applicants proposing to study an aspect of the technology licensing process.

Applicants must be candidates for an undergraduate or graduate degree and have a solid academic background and interest in technology marketing. Selection will be based on the significance of the project to the applicant's career objectives.

Deadline for receipt of applications in the Office of Research is July 31. Application forms are available from the office. For more information, call Chris Ostrovski at Ext. 6929.

Awards

Elanco (Eli Lilly) has awarded $28,318 to Prof. Ron Ball, Animal and Poultry Science, for the project "The Quality and Consumer Acceptance of Cured and Uncured Pork Cuts from Pigs Receiving Diets Containing a Beta-Agonist."

Globaltech Inc. has awarded $13,550 to Prof. Paul Voroney, Land Resource Science, for his "Evaluation of Hydro-Fix and Bio-Fix."

Hoechst Canada Inc. has awarded $30,000 to Prof. Chris Hall, Environmental Biology, for a "Biotechnological Evaluation of HOE 070542."

Hoechst-Roussel has awarded $204,370 to Prof. Brian McBride, Animal and Poultry Science, for a project entitled "Effect of Feeding Varying Dosages of Bambermycins (Flavomycin) on Production Responses, Reproduction and Health of Dairy Cows and Heifers."

NSERC's Co-operative Research and Development Program is providing $44,300 to Prof. Jacek Lipkowski, Chemistry and Biochemistry, for the project "Inhibitor for Corrosion Protection of Coolant Circuits in Nuclear Reactors."

Under its International Collaborative Research Program, NSERC has awarded $7,000 to Prof. Austin Fletcher, Environmental Biology, for his research on the "Improvement of Triazole-Induced Protection of Crops from Drought and Heat Injury."

Under its New Research Idea Program, NSERC is providing Prof. John Roff, Zoology, with $32,921 for his project "Biochemical Measurements of Growth Rates in Aquatic Metazoa."

Health & Welfare Canada has awarded $17,000 to Prof. Mark Goldberg, Biomedical Sciences, for a project entitled "Skin Pharmacology and Toxicology."

The Ontario Chicken Producers Marketing Board is providing Prof. Ian Duncan, Animal and Poultry Science, with $10,520 for his research on "The Behavior of Broilers Under Different Lighting Regimes."

The Ontario Egg Producers' Marketing Board has awarded $8,000 to Prof. Eva Nagy, Veterinary Microbiology and Immunology, for a project entitled "Virulence and Molecular Epidemiology of Infectious Laryngotracheitis Virus, a Herpes-Virus of Chickens."

The Ontario Ministry of Agriculture and Food has awarded $41,230 to Prof. David Douglas, University School of Rural Planning & Development, for the project "Rural Development — Preparatory Tasks Regarding Development Trends and Issues in Rural Ontario and a Study of Farmland and Community Diversification."

OMAF is also providing Prof. Dick Protz, Land Resource Science, with $32,000 for "An Evaluation of Crop Residue Monitoring Technique Utilizing Satellite Data."

Under its Food Systems 2002 program, OMAF has awarded $200,250 to Prof. John Sutton, Environmental Biology, for his project on "Health Management in Strawberries for High Productivity of Fungicide-Free Fruit," and $29,517 to Prof. Vern Shattuck, Horticultural Science, for "The Control of Powdery Mildew on Ontario-Grown Rutabagas." ❐

OAC alumni honor faculty

The OAC Alumni Association recently honored three faculty members with awards for distinguished teaching, extension and research.

Prof. Jim Atkinson, Animal and Poultry Science, received the OAC Alumni Association's Distinguished Teaching Award. Prof. Gordon Bowman, Animal and Poultry Science, won the award for extension. Prof. Bryan McKersie, Crop Science, was the recipient of the award for research.

Atkinson began his teaching career at Guelph 15 years ago in the College of Biological Science and earned a PhD in nutrition from the college in 1978. He joined the Department of Animal and Poultry Science in 1986.

In 1988, he received teaching awards from the Ontario Confederation of University Faculty Associations and the U of G Faculty Association.

Bowman has been involved in OAC extension activities for 27 years. He has worked closely with the Canadian swine and beef industries, as well as other agricultural producer groups.

The alumni award recognizes the extra effort needed to participate in extension efforts —keeping agricultural producers up to date on current policy and research activities.

A member of the Department of Crop Science for almost 12 years, McKersie's research has included the study of persistence in alfalfa, winter hardiness in wheat, silage fermentation, chilling injury in tomatoes and general crop response to environmental stress. He is part of an OAC research team that filed a patent last year for the technology to mass produce artificial seeds.

In 1988, McKersie received the CD Nelson Award from the Canadian Society of Plant Physiologists, an honor given for outstanding research by scientists under 40.

The annual OACAA awards are funded by contributions from OAC alumni, through the alumni association's foundation. ❐

OAC alumni recently honored three faculty members for their contributions to the college and the agricultural industry. From left to right are Profs. Gordon Bowman, Animal and Poultry Science, winner of the extension award; Bryan McKersie, Crop Science, winner of the research award; and Jim Atkinson, Animal and Poultry Science, winner of the teaching award.

Photo by Richard Buck, OAC

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Matrix

Personnel report

Appointments

Prof. Larry Milligan has been reappointed dean of research for a five-year term, effective Oct. 1.

Prof. Bryan McKersie, Crop Science, and Prof. Ann Oaks, Botany, have been appointed adjunct professors in the Department of Horticultural Science for three-year terms, effective May 1.

J.R. Barta of the U.S. Department of Agriculture in Maryland has been appointed assistant professor in the Department of Pathology.

Job opportunities

As of *At Guelph* deadline May 4, the following opportunities were available:

Analyst II, Department of Animal and Poultry Science; temporary full-time for about one year. Normal hiring range: $28,047 to $32,955.

Secretary II, Office of the Vice-President, Academic. Salary range: $399.16 minimum; $451.00 job rate (level 5); $545.46 maximum.

Technician, Department of Veterinary Microbiology and Immunology; maternity leave, temporary full-time June 1 to Sept. 28, 1990. Normal hiring range: $470.22 to $508.25 per week.

The following positions were available to on-campus employees only:

Job Evaluation Co-ordinator, Personnel Department. Salary range: $30,109 minimum; $37,637 midpoint; $45,164 maximum. Normal hiring range: $30,109 to $35,379.

Secretary II, Department of Psychology. Salary range: $355.41 minimum; $407.25 job rate (level 5); $501.71 maximum.

Administrative Secretary, Medical Services. Salary range: $431.66 minimum; $487.97 job rate (level 5); $589.91 maximum.

Classroom Technician, Technical Operations. Salary range: $404.45 minimum; $463.77 job rate (level 5); $570.43 maximum.

Sales Clerk, Retail Operations. Salary range: $321.82 minimum; $347.06 job rate (level 5); $413.12 maximum.

Animal Health Technician, Veterinary Teaching Hospital. Salary range: $404.45 minimum; $463.77 job rate (level 5); $570.43 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact Employment Services and Training, Level 5, University Centre, or telephone 836-4900.

Effective May 11, Employment Services and Training will be moving from Level 5 of the University Centre. The new office is situated opposite the greenhouses on Christie Lane, which is located off South Ring Road in the area bordered by Gordon Street, University Centre main entrance access road and Reynolds walk. ❐

Personals

For Sale:

New house in Old Stone Estates, Judy, Ext. 5001. Two-bedroom chalet-style bungalow in Parry Sound district, five minutes to lake, on 7.8-acre private landscaped lot, 51-foot drilled well, septic tank, well insulated, fireplace, four appliances, on year-round road, all services, 763-4670. 1985 Dodge minivan, professional lettering of your business name included, if desired, 763-5224. Women's 10-speed bicycle, Barbara, 824-6015 evenings. Silverplated cutlery, 16 five-piece settings; six nurse/receptionist uniforms, three blue, three white, size 6, like new, 658-9938 after 6 p.m. Two MS Silverguard all-season radial tires, size P215-75R/15, Ext. 2203 or 836-3252 evenings. 1981 Ford Fairmont, 302 V8, automatic, power steering and brakes, AM/FM radio, one owner, no rust, 823-2813. Girls' bike, boys' bike, Ext. 4745 or 823-8547. Raleigh women's 10-speed bike, Ext. 6201 or 763-1692 evenings. Junk-free garage sale: futon, recliner, desk and chair, loveseat, etc., May 12, 9 a.m. to 5 p.m., 31 University Ave. E. 1982 Datsun 210, four-door, five-speed, 155,000 km, reliable, 856-4388.

Wanted:

Beachfront cottage to rent, July 15 to Aug. 15, Keith, Ext. 8711. Large and medium-sized travelling trunks in good condition, Robert/Miriam, 763-0727. Chinese-English translator to collaborate with political studies graduate student during spring semester, Ext. 1648. Apartment-sized piano in good condition, Julie, Ext. 4184 or 824-0628 evenings. Person(s) to maintain farm in Rockwood area, includes feeding animals, cutting lawns, etc., in exchange for one-bedroom apartment and remuneration, write Box 242, Rockwood, Ont. N0B 2K0 or call 1-416-360-5213. Responsible person to stay in country home 15 minutes from University, from May 17 to June and July 11 to 25, 824-3039. Two-bedroom apartment or small home for visiting professor, close to University and conveniences, June 1 to January 1991, Ext. 6173/3753.

For Rent:

Four-bedroom house, four baths, walking distance to University, Oct. 1 to May 1, 1991, no pets, 821-5658. Three-bedroom bungalow for family, finished basement, two bathrooms, four appliances and central vacuum, close to schools and shopping, available July 1, $1,200 a month, 824-5783. Third floor of older home for responsible adult, five minutes from downtown, on bus route, available June 1, 836-9786 after 5 p.m. Three-bedroom furnished bungalow, non-smokers preferred, references, available Sept. 1 to April 30, 1991, $850 a month plus utilities, Mary, 837-3823.

Conference to focus on sustainability of agriculture

The George Morris Centre is holding a one-day conference May 31 on sustainable agriculture.

"Sustainable Agriculture: Its Policy Effects on the Future of Canada and Ontario's Agrifood System" will examine such issues as prospects for world food security, environmental effects of current farm policies and the causes and costs of land degradation.

Speakers include Joachim von Braun of the International Food Policy Research Institute; Katherine Reichelderfer, Resources for the Future; MPP Peter Adams, parliamentary secretary to the minister of the environment; Prof. Murray Miller, director of the Centre for Soil and Water Conservation; and Profs. Glenn Fox and William van Vuuren, Agricultural Economics and Business.

Registration for the conference is $100. For more information, call the OAC Extension Service at Ext. 3933. ❐

Parking lot to close

Construction will begin in mid-May on the extension of the Thornbrough building, which will be built on parking lot 42, east of the University Centre.

The attendant lot in P.31 on South Ring Road will be expanded to accommodate short-term and visitor parking lost with the closing of P.42, says Lucie Turner, manager of parking.

With completion of construction on the twin rinks, about 100 commuter parking spaces have now been put back into use, says Turner. This area may be closed periodically to accommodate special events, she says. ❐