



NEAR ROCK BOTTOM

Close to financial crisis, Ferguson warns

by Sandra Webster

Guelph isn't going to raise the bankruptcy flag, but "we are getting close to a financial crisis," Vice-President, Administration, Charles Ferguson told media at a pre-Senate meeting briefing last week. Several hours later, he led senators through the details of the teaching portion of the University's proposed 1986/87 operating budget, based on funds from the Ministry of Colleges and Universities.

It was a historic meeting — the first time ever that the Committee on University Planning took forward budget data to the academic governing body for information and comment. (See story, page 2.) The budget, with Senate's comments, went to the finance committee of Board of Governors April 16 for review. The budget goes to BofG for approval April 24.

MC U funding represents about \$100 million of the University's total annual budget of \$167



Charles Ferguson

Photo by John Hearn. PRI

million. The balance includes a grant of \$24 million to \$28 million from the Ontario Ministry of Agriculture and Food, some \$18.3 million in income from such ancillary services as residences and food services, and about \$24 million in revenues from trust funds and research contracts — all earmarked money that can't be used for teaching purposes.

Guelph enters the new fiscal year May 1 carrying forward a deficit from the 1985/86 budget. Revenue reductions caused by a student enrolment shortfall, a drop in interest rates and the announcement of the excellence fund made for a season of budgetary adversity and uncertainty, President Burt Matthews told Senate.

Although final figures for the 1985/86 budget won't be known until audited statements become available in late August, it looks like Guelph will begin the new fiscal year with a projected carry-forward deficit of \$188,000. The year will also begin with academic and administrative units struggling under selective cuts and reductions averaging 4.9 per cent and totalling \$5 million before the addition of any excellence funds.

"If the government can't be convinced to raise the level of funding to universities as well as continuing the excellence funds, our units will have to reconcile themselves to further spending, reductions in 1987/1988," Ferguson told the media.

Lot of unknowns

The projected 1986/87 budget, which Matthews described as "the most complicated and difficult that I have had anything to do with in 20 years of budget-making," indicates reduced revenues, some heavy commitments and a lot of unknowns. And what happens after next year is anybody's guess, he said.

Budget preparation material for 1986/87 shows a projected deficit of \$200,000. The last \$410,000 of the University's funding reserve, which stood at \$4.5 million eight years ago, was used to reduce the 1985/86 deficit.

On the expenditure side, the projected budget contains, among other items, no general provision for inflation on non-personnel costs except for \$450,000 for Computer Services to

cover increased lease costs on the IBM 4381 computers, \$188,000 for increased maintenance costs attributable to the federal building and OVC extension buildings, a one-shot \$50,000 for data entry costs in Financial Services, \$47,000 for off-campus storage of library materials and \$42,000 towards the University's share of University Centre operations.

Utility costs up

Utility costs are expected to go up five per cent in 1986/87, for a net increase of \$203,000. A new expense is a \$52,000 tipping fee for garbage disposal, which the city has imposed. Guelph's best guess on how much insurance rates will increase over the next year is \$200,000, "but it could be more than that," Ferguson said. An allowance of \$4.9 million for salary and benefit adjustments has also been included in the budget.

Guelph is anticipating a \$1.6-million drop in revenue in the new fiscal year, \$1.1 million of which is a reduction in tuition income. Matthews told Senate he was not confident about the tuition income projections because the number of first-year applications to Guelph are down.

The provincial government has promised a four-per-cent increase in total grant income in each of 1986/87 and 1987/88. But because Guelph's enrolment has declined in comparison with other institutions, the University will actually receive only a 3.6-per-cent increase in its grants and tuition income. Interest income is also expected to drop by \$500,000 from 1985/86 because of lower general interest rates and the use of cash flow for major capital and renovation projects. And sundry revenue is expected to fall by \$121,000 because of reduced rental and other service revenue from OMAF.

Guelph forecasts a total revenue increase of \$3.3 million in the new year, an increase of 3.6 per cent over 1985/86.

Matthews cautioned senators that the 1986/87 figures are estimates that will only change once some of the unknowns are cleared up. Among these is the excellence fund revenues, which are in three packages — undergraduate and

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Budget *Continued from page 1*

graduate teaching equipment, research, and faculty renewal. Guelph knows its allocations for the teaching and research portions, but it doesn't know the detailed allocation criteria. As a result, there is some uncertainty as to which University units may apply for these funds.

Guelph has made a best-estimate-only of its share of the faculty renewal portion of the fund because the government hasn't yet announced the allocation or the criteria for use. Ferguson said there should be some answers after the provincial budget next month, if not before. Also unknown is whether the government plans to continue the faculty renewal fund, although Ferguson expects there will be a commitment of at least two or three years.

Matthews told Senate that the University regards the excellence funds as "soft" money, and stressed that it may not come again.

"Guelph must recognize that we may have even bigger problems next year at this time if excellence fund money is not available," he said.

The excellence fund money is going out to particular units on a one-shot basis in 1986/87, as adds to budgets for specific purposes. "It doesn't change the bottom line," said Ferguson. "Even with the excellence fund, we are still talking about a \$200,000 deficit." Units are making an average 4.9-per-cent cut, but add backs from the excellence fund amount to 3.3 per cent for a true one-year reduction of 1.6 per cent.

"We don't want to alarm people unduly, but we are in a tight situation," Ferguson told the press. "I have the impression that until the government and the public actually see layoffs, they aren't going to believe us."

Guelph has been pruning budgets for eight years, he said. It has reduced non-teaching staff through a policy of attrition and relocation,

particularly in the Housekeeping Department of Physical Resources.

The University is also concerned about its deteriorating physical plant. Ferguson said only \$1.3 million is available in 1986/87 for plant maintenance and renovations. Based on the replacement value of the physical plant, the University should be spending \$4 million to \$6 million a year.

"Guelph is at a point where it faces the prospect of some major reductions next year if it doesn't get an assurance of additional government funding," he said.

Guelph will be re-examining institutional priorities over the next year, said Ferguson. The topic is on the agenda for the annual spring retreat of the President's Advisory Council.

The University needs some grass roots lobbying by faculty, staff, students and others to bring the plight of post-secondary institutions to the attention of the public and government, he said. 0

University of Guelph 86/87 Budget Presentation
Funding from the Ministry of Colleges and Universities

	Current Budget 85/86	As % of Revenue	Base Budget 86/87	Excellence Funding 86/87	Total Budget 86/87	As % of Revenue
INSTITUTIONAL REVENUES	100,725	93.3%	103,556	3,415	106,971	93.9%
DEPARTMENTAL REVENUES	7,257	6.7%	6,967		6,967	6.1%
TOTAL REVENUES	107,982	100.0%	110,523	3,415	113,938	100.0%
SALARIES	78,747	72.9%	82,990	575	83,565	73.3%
BENEFITS	9,097	8.4%	10,131		10,131	8.9%
OPERATING SUPPLIES	16,543	15.3%	14,594	1,404	15,998	14.0%
EQUIPMENT	4,193	3.9%	2,820	1,436	4,256	3.7%
Total Expenditures	108,580		110,535	3,415	113,950	
Current Deficit	(598)		(12)	0	(12)	
Prior Year's Surplus (Deficit)	410		(188)		(188)	
Projected Total Deficit	(188)		(200)	0	(200)	

University of Guelph 86/87 Budget Presentation
Contract Funding from the Ontario Ministry of Agriculture and Food

	Budget 85/86	As % of Revenue	Budget 86/87	As % of Revenue
TOTAL REVENUES	24,964	100.0%	25,964	100.0%
SALARIES	18,589	74.5%	19,424	74.8%
BENEFITS	2,125	8.5%	2,363	9.1%
OPERATING SUPPLIES	3,999	16.0%	3,917	15.1%
EQUIPMENT	251	1.0%	260	1.0%
Total Expenditures	24,964		25,964	
Projected Surplus/Deficit	0		(0)	

(Courtesy of John Miles, budget manager, Financial Services)

Senate to send strong words to Queen's Park

Senate plans to send strong words to Queen's Park next month. The message: the provincial government is not giving Guelph enough funding to fulfil its aims. The Committee of University Planning is to draw up a resolution for approval at Senate's May 20 meeting.

The decision to send a resolution to Queen's Park came at the end of last week's 2 1/2-hour meeting devoted to issues arising from the University's operating budget, which went to Senate for information and comment for the first time ever. (See front page story.)

The resolution, suggested by President Burt Matthews, is an alternative to action proposed by Prof. Jay Newman, Philosophy, who wanted Senate to reject the budget for information as a gesture to show government and the public that Guelph cannot achieve its aim of academic excellence with the funds available.

Newman said Senate is committed to achieving academic excellence through directions well thought out during long discussions leading to Guelph's aims document, *Towards 2,000: challenges and Responses. Aims of the University of Guelph*. "But now we find ourselves hit with one of the worst budgets this institution has had to face. We are being told to be excellent for very little money. And despite the excellence fund, in real terms we are going to have less money than we have had before."

Newman said that in the past Senate has been shielded from the financial implications of an underfunded system because it has not been the business of senators to worry about money matters. But the rules of the game have changed, he said, and Senate is now being asked to comment on budget matters.

He said Senate should make "a very strong public statement that it cannot possibly achieve its aims of approaching excellence because the funds it has to work with do not represent the funds necessary for excellence. If we don't, we aren't being faithful to the policies we have passed in the last few months." 0

Good news!

Parking & traffic review

An *ad hoc* committee is to conduct an extensive review of current traffic and parking policy, regulations and administrations. President Burt Matthews says the study is in response to the "continuing concern of many regular users and visitors."

The *ad hoc* committee on traffic and parking policy will review present practices and identify specific issues related to faculty, staff, students, visitors and the University's general operations. It will also make recommendations for modifications that will ensure an effective, self-sustaining campus traffic and parking system. Matthews expects to receive the committee's report on or before Oct. 1.

There are 4,950 parking spaces on campus in 46 lots occupying 35.5 acres of land. Some 430 of these spaces are pay-as-you-park on a daily basis for visitors. Another 300 are for service vehicles, research commuters and medical services vehicles.

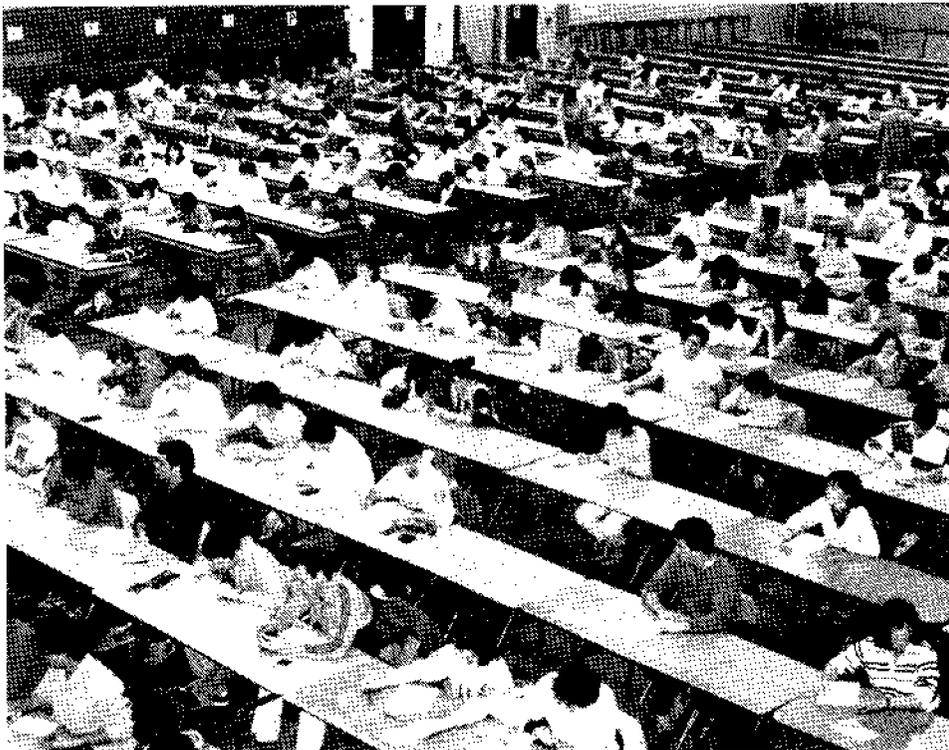
In 1966, a task force recommended a system of priority permit parking, using black, orange and blue permits, at an annual charge of \$4 to cover administrative costs. In 1967, the task force became a standing committee on parking to advise on amendments to, and the administration of, the parking policy. An independent appeals committee for faculty and staff was appointed the same year and a separate group dealing with student parking appeals continued in operation.

In 1970, the Ontario government ruled that parking lots were no longer eligible for capital support, and four years later, Guelph introduced a system of egalitarian paid parking at an annual fee of \$42. All commuting permit holders pay the same fee today and resident students pay \$10 per semester.

The standing committee on parking continues to function, and an integrated parking and traffic appeals committee continues to consider and rule on appeals.

The *ad hoc* committee will determine its own method of operation, says Matthews, but he expects it will provide an opportunity for comment and suggestions from users. He has already asked that some steps, such as improved signage, be taken immediately to improve visitor access to parking information.

Prof. Tom Hulland, Pathology, is head of the committee. Other members are Prof. Ted Fletcher, School of Hotel and Food Administration; Prof. Tom Funk, Department of Agricultural Economics and Business; Don Livingston, Alumni Affairs and Development; Lloyd Cummins, Physical Resources; undergraduate student Maureen Brown; and graduate student Suzanne O'Grady. Douglas Waterston, special assistant to the president, is secretary, and John Mason, director of Administrative Resources, will serve as resource person. 0



Academics and administrators weren't the only people preoccupied with figures last week. Above, economics students fill the Athletics Centre to write their final examination of the winter semester. Exams for DV M students conclude April 29. Registration for the spring semester is May 2 and classes begin May 5.

Photo by John Hearn, PRI

Horrors! Guelph tops list of COU 'horror stories'

Guelph's beef barn research facilities topped the list of "horror stories" at provincial universities when the Council of Ontario Universities' presented a report on its recent tour of Ontario campuses to the minister of colleges and universities, Greg Sorbara, last week.

In a summary of its tour findings, COU said it was "faced with overwhelming evidence of the damaging effects of underfunding" on every campus it visited. Referring to Guelph's beef barn on Trent Lane, the report described how "some university scientists conduct environmental biology research in a converted beef barn, sharing their quarters with diseased sheep, and storing laboratory supplies in century-old horse stables."

Teams of university presidents and other members of the university community toured 10 Ontario cities for two weeks in February and March, meeting municipal officials, addressing public groups, speaking with local media and documenting local campus shortcomings.

Other problems cited on various campuses included old buildings that have become fire hazards, classrooms crowded beyond fire safety limited crowded libraries that force students to study in stairwells and moratoriums on library book purchases.

During the tour, team members told the public that Ontario ranks ninth among Canadian provinces in its per-student support for universities. To bring Ontario up to the national average would require an additional \$170 million a year, a 13-per-cent increase in government funding. Without such a commitment, they said, the current threats to quality of instruction posed by overcrowding, obsolete equipment, deteriorating facilities and other problems associated with an aging faculty and heightened costs of research will only be aggravated.

At the meeting with Sorbara, COU presented him with a thick binder of press clippings and other material related to the tour, as well as a summary report of the findings. The tour teams suggested to the minister, as they had to public groups across the province, that Canada's richest province should be able to support universities at a level at least equal to the national average.

In its report, COU welcomed the government's recent announcement of new capital funds for special and designated projects, but noted that the recent grants represent only a modest increase in capital commitments, and that universities need much more financial support to repair the damage a decade of underfunding has caused.

"The urgency of the universities' situation cannot be overstated," the report concluded. "The future of Ontario depends on the speed and skill with which these problems are addressed. The universities will continue to work with the government to restore our university system to the world-class status it once enjoyed, and that this generation of Ontarians expects of it." 0

LEARNING OBJECTIVES

BUGS comes of age responding to aims document

by
Bett^y Bean-Kennedy

What are the qualities a well-educated graduate should possess?

The goals are outlined in *Towards 2000: Challenges and Responses. Aims of the University of Guelph*:

*Love of learning • Depth of understanding
Independence of thought • Sense of historical development
Breadth of understanding • Global understanding
Moral maturity • Esthetic maturity
Literacy • Numeracy
Additional language*

Recommendation 1 of the aims document presented the Board of Undergraduate Studies with the task of preparing, within one year and in consultation with the committee for educational development, a set of learning objectives common to all undergraduate programs that would foster independent learning, put more emphasis on problem-solving skills and making value judgments, and incorporate information technology into the education process.

BUGS chairman Prof. John Bell, Languages and Literatures, distributed the result of the board's work, *Board of Undergraduate Studies Learning Objectives, Discussion Paper*, at an April 9 meeting of faculty. BUGS wants University-wide discussion of the paper and is seeking written responses by the end of May. Submissions should be made to Bell or John Hurst, University Secretariat, Level 4, University Centre. BUGS hopes to present its final report to Senate this fall.

A solid contribution

Bell says that at first BUGS felt almost overwhelmed with the size of its task. "It was as though we had been told to design a university." The mandate has essentially changed BUGS, he says. In the past, the board was seen as a gatekeeper, doing such tasks as approving courses. Now it's a body that stimulates discussions on the basic principles of undergraduate studies, he says.

The discussion in BUGS has been "quite a revolution," says Vice-President, Academic, Howard Clark. "It is the first really substantial contribution regarding the philosophy of education the board has been requested to present. It is a major change for BUGS, and the members have made a solid contribution to our thinking on learning objectives."

Bell says the board's members, who include representatives from various disciplines, administrators and undergraduates, are "passionately interested" in teaching, and are committed to education as a liberalizing force.

BUGS undergraduate member Cheryl Greenlees, a fourth-year Consumer Studies student, says one of her main concerns was that BUGS should offer practical ways for departments and program committees to implement the recommendations, and she is satisfied that it has done that. She says the learning objectives must be communicated to students so they can assess their own progress.

Dean Bruce Sells, College of Biological Science, agrees students should be encouraged to look at the breadth of knowledge they are acquiring. "My own feeling," he says, "is that we tend to get too specialized too quickly." He suggests that a broader core should be required for both science and non-science students.

Faculty members will play a key role in

ensuring the University's learning objectives are met, says Bell. One way to promote love of learning and independence of thought in undergraduates, for example, is to have faculty serve as role models. Defending unfashionable views and encouraging questions and debate about issues are two obvious ways faculty can accomplish this, he says.

Sells says that excitement about the work or research a person is involved in is "the essence of love of learning." Good faculty have the ability to share their excitement, which captures the interest of students and inspires them to explore further, he says.

Cross-disciplinary learning

Interdisciplinary courses are a good way for undergraduates to meet the learning objectives, says Clark. "It's ironic that the recent (faculty opportunities) survey shows that faculty are interested in developing and teaching interdisciplinary courses, but not much is happening in this area."

Clark thinks it's crucial for department heads to look at the broad picture and actively encourage the development of interdisciplinary courses. Deans and chairmen are the key people who must encourage this development "or it won't happen." From the administrative viewpoint, he says, it may be possible to devise department incentives, such as making it clear there would be no budgetary risks involved in creating such courses.

Associate Vice-President, Academic, Janet Wardlaw hopes that concerns about rules and regulations won't hinder creativity in the development of new courses. "While there is necessity for order," she says, "even before the *Towards 2000* document we were looking at developing mechanisms to ease the way for multi-disciplinary courses."



Top to bottom: Janet Wardlaw, John Bell and Cheryl Greenlees.

Photos by Barbara Chance, PRI, and Herb Peuche; Illustration Services

In the early 1970s, many Ontario universities removed science requirements for non-science students, and arts and social science requirements for science students. Although Guelph maintained those requirements, Clark says more and varied courses are required to answer the need for cross-disciplinary learning. He says Guelph needs a clear understanding of which courses contribute to a particular level of competence.

The ability to cross disciplinary boundaries indicates a breadth of understanding, Bell says, whereas depth of understanding implies mastery of a body of knowledge. Such concepts do not stand alone, he says, but depend upon, and contribute to, independence of thought and love of learning. Also intertwined with these are historical perspective and global understanding, defined as "comprehension of the variety of political, religious, cultural, geographical, biological, environmental and historical forces in the shaping of nature and the human condition."

Moral maturity, says Bell, equips people to respect the moral judgments of others, to be willing to examine their own moral views and to apply ethical principles to problems. The

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discussion paper poses the question: "How much room is there for ethical discussion within existing courses in your discipline or program?"

The minimum level of undergraduate esthetic maturity the University should strive for, the paper says, is "the critical skills necessary to an informed appreciation of the arts." These skills could also be an appreciation of the natural environment and the creativity of science. Those undergraduates who have opportunities to practise an art, it suggests, will undergo a process of self-discovery and will enhance their creative imaginativeness.

Information technology is particularly mentioned in the board's recommendations for learning objectives, and Clark says Guelph is close to the point where all its students need some training in information science, to know how to handle and manipulate information. Many students now coming out of high school have this ability, he says, and Guelph has to be prepared to tailor courses to allow them to use and expand, those skills.

Sells says the concept of literacy is easier for many people to understand than that of numeracy. Numeracy, he says, is not mathematics in the pure sense, but an understanding of what numbers mean. "A well-educated person," he says, "should comprehend the meaningfulness of numbers and be able to use numbers as a form of communication."

The highest level of literacy might mean the ability to understand material in another language, says Bell, but this could vary between disciplines. "There are obvious practical difficulties to implementing such a learning objective," he says, so BUGS needs feedback from program committees, colleges and faculty about the need for knowledge of a second language.

Discussion sought

Bell says BUGS would like faculty to discuss the ideas and concepts in the paper as widely as possible. "Our hope is that faculty members will come to the board with suggestions and ideas." Wardlaw and Greenlees also want to see students become actively involved in assessing the papers — perhaps through such existing structures as student representation on program committees and Senate, and the Central Student Association. Wardlaw encourages faculty to involve students in discussions at the departmental level.

BUGS would like to hear suggestions on how to evaluate how well learning objectives are being met, says Bell. One idea that has been discussed is a "university paper," written in a student's final year, that would require a higher degree of literacy and breadth of knowledge than a paper for a 100- or 200-level course. It would encourage students to demonstrate the qualities the learning objectives aim to instill and it would give the University some idea as to how well those objectives are being met, he says.

Sells thinks each department has to accept responsibility for evaluating how well it is meeting the learning objectives. Students, especially those in honors program, should have independent projects to carry out with minimal supervision, he says, and "if students leave Guelph without being able to ask questions, then the University has failed." 0

Senate approves statement on athletics

Senate has approved a philosophy on intercollegiate sports that says Guelph's athletics program "contributes to our educational mission, providing opportunities for students to acquire skills which contribute to the total development of the individual."

The Senate action is in response to the *Ricker^d Report on Intercollegiate Sports*, which recommends that every Ontario university have a formally approved philosophy on intercollegiate sports.

The University's goal in athletics is to give as many students as possible the opportunity to compete intercollegiate, at as high a level as possible, in a coaching and competitive environment that advances both personal and intellectual growth, says the philosophy statement. And it should promote a sense of pride in Guelph through the performance of University teams.

The statement affirms equal opportunity for

women and men in intercollegiate athletics at Guelph and reaffirms the University's policy of admitting students only on the grounds of academic potential. Guelph will not offer scholarships for athletic ability to incoming students, says David Copp, director of Athletics.

Copp says Guelph has only one in-course athletics-related scholarship, the Bill Taylor Scholarship, which is awarded to a student with high academic standing who displays leadership ability in any area of the University's athletics programs.

Senators expressed concern that the budget figures seem to indicate that men's intercollegiate athletics are favored three-to-one in monetary terms over women's athletics. Provost Paul Gilmor said that although that figure doesn't truly reflect reality, men's athletics do receive more funding than women's. He said this is a historical problem that the University is trying to resolve. 0

Info technology centre

The Centre for Information Technology Research will start up on May 1. Approved by Senate last April, the centre will be managed by Margaret Beckman, executive director for information technology, until a director is found, according to a report approved by Senate last week.

Beckman will be assisted by an advisory committee made up of chief librarian John Black; Prof. Tom Carey, Computing and Information Science; Prof. James Law, Physics; Prof. John Ogilvie, director of the School of Engineering; and Dean John Vanderkamp, College of Social Science.

Vanderkamp, who is also chairman of the Senate committee for information technology, told Senate that a search for a director for the centre has been unsuccessful. In its report, the committee outlined how the centre will operate until a director is found. Funds that would have

been used for the directorship — a half-time position representing about \$20,000 — will be used to encourage research in information technology.

This is an area "we would like to be in the forefront of," said Vanderkamp, and Guelph will have a good role to play, but there isn't enough research activity yet to establish a focus. During the process of defining a role for the centre, he said, a director should emerge.

Until then — and that could be two years from now, said Vanderkamp — the centre will have three functions: to seek and distribute funds to campus applicants for research in information technology; to arrange seminars in consultation and collaboration with other campus units to stimulate research in information technology; and to work with the Office of Research in processing grant applications in the field of information technology research. 0

Senate summary

The following have been named to associated graduate faculty: Owen Scott, The Landplan Collaborative Ltd., Guelph/Landscape Architecture; William Edinger, Ontario Ministry of Agriculture and Food, Vineland/Environmental Biology; Robert Norman, University of Waterloo/Human Biology; Victor Timmer, University of Toronto/Land Resource Science; Susan Koval, University of Western Ontario/Microbiology; and Jim Gladstone, University of Toronto/Family Studies.

Senate approved an addition to Section 113.4 of the 1986/87 *Graduate Calendar*, which reflects that the Board of Graduate Studies is encouraging academic units to involve faculty from other departments or schools to participate in the supervision of students in master's programs.

A new award was approved — History of Ancient Art Prizes — offering annual prizes of \$100 to students who obtain the highest mark in each of courses 13-245, 13-253, 13-352 and 13-353, and \$200 to students in each of courses 13-450 and 13-459 in the fall and winter semesters.

The prize is tenable with other Senate awards,

and will be awarded to the students who obtain the highest mark in each of the courses, provided the highest mark is at least a 'B' grade.

Senate also approved rewording of one of the conditions for continuation of an award in the Presidential Scholarship Program. It says: "A presidential scholarship will normally be held for eight semesters. All scholars will be expected to carry a full course load of four or more courses, as determined by the particular program concerned. Each scholar's performance will be reviewed on a yearly basis by the PSSSC, and continuation of the scholarship will be assured where the student continues to display the academic and other achievements upon which the award of the scholarship initially depended."

Senate also received for information the report of the Committee on University Planning on the University's 1986/87 budget (see front page); approved a report on the Centre for Information Technology Research (see above) and a statement of philosophy on intercollegiate athletics (see above).

Briefly

COMPUTING SERVICES will shut down overnight on April 30 for fiscal year-end procedures. APL will be unavailable from 8 p.m. April 30 until 7 a.m. May 1. CMS will be unavailable from 11 p.m. to 7 a.m.; and OS will be unavailable from 10 p.m. to 7 a.m. If possible, services will resume before 7 a.m. May 1. Users are asked to schedule any large computer jobs before April 28. They should also ensure that their computer accounts have been properly reauthorized, because any numbers not reauthorized will be deleted April 30. If necessary, deleted computer accounts may be restored after May 1. Users with last-minute changes to computer accounts should contact Elizabeth Reemeyer, Ext. 3717 on ROLM or Bell lines.

A PRODUCT DEVELOPMENT FAIR, sponsored by the Consumer Studies Club with support from the Family and Consumer Studies Student Advisory Council, will be held April 26 from 1 to 3 p.m. in Room 103, Macdonald Hall. Twenty students from the Waterloo-Wellington region had registered at press time, but entries will be accepted until April 25. The fair encourages students from Grades 7 to 13 to develop projects on product comparisons, new products and new package design. First prize is \$100, second \$50 and third \$25. For more information, contact Consumer Studies student Kathy Raymond at Ext. 8760.

THE DUBLIN STREET Church choir, directed by Prof. Gerald Manning, English Language and Literature, will perform "Anthems For All Seasons" April 27 at 4 p.m. at Dublin Street United Church. The concert will include the premiere performance of "Motets from the Book of Proverbs" by Prof. Charles Wilson, Music. In recognition of the International Year of Canadian Music, the concert will offer a variety of church music by Canadian composers. Tickets are \$4 and \$5 and are available from the church office at 821-0610 or at the door.

GRANDPARENTS who have a child that has remarried after a divorce are needed as volunteers for a FACS study by Prof. Jim Gladstone, Family Studies. Gladstone is examining the relationship between grandparents and grandchildren in a remarriage situation, specifically the amount of contact and support that the grandparents provide. For more information, contact Gladstone at Ext. 3970 or 3798.

THE SCOTTISH STUDIES COLLOQUIUM is May 3 from 10 a.m. to 4 p.m. in Room 031, MacKinnon building. Guest speakers include Alan Watson, Arboretum, who will discuss "Scottish Gardens;" Frank Watson of Toronto, whose topic is "A Defence of Lord Braxfield;" Elizabeth Ewen, University of Western Ontario, who will focus on "Townlife in Later Medieval Scotland;" and Alistair MacLeod, University of Windsor, who will read from his own works. Registration at the door is \$5 general, \$3 for senior citizens, free for students.

THE SECOND ISSUE of *Research Guelph* has just been released by Public Relations and Information. This quarterly publication presents research at the University to members of the media, science teachers, alumni and industrial contacts. Copies have been distributed to all faculty members. Anyone who wishes to receive *Research Guelph* should contact the editor, Ann Middleton, Public Relations and Information, Ext. 8705.

THE GUELPH CHAPTER of Sigma XI, the Scientific Research Society, celebrates the centennial of the society April 25 with a day-long seminar on scientific research in Room 103, University Centre. The theme of the morning session, which begins at 9:15 a.m., is "The Past is a Key to the Present." At the afternoon session, which begins at 2:30 p.m., the theme is "Co-operation in Research: Key to the Future." Scheduled luncheon speaker Frank Oberle, minister of state for science in technology, is unable to attend; in his place, MP Bill Winegard will speak on research funding. The morning and afternoon sessions are open to anyone, free of charge. Cost of the luncheon, which begins at 12:45 p.m. in Room 442, University Centre, is \$8.

GUELPH-WELLINGTON Women in Crisis is sponsoring a talk and reading by June Callwood April 27 at 4 p.m. at the Bookshelf Cafe. Cost is \$12, and includes coffee and dessert. Proceeds go to Women in Crisis. Tickets are available at the Cafe, or by telephoning 836-1110.

A SPECIAL undergraduate spring seminar focusing on trade relations between Canada and the United States, will be taught jointly by Economics professor Bram Cadsby and Political Studies professor Ken Woodside. Guest lecturers will also participate in discussions of whether Canada and the United States should negotiate a bilateral free trade agreement, what the effects of such an arrangement would be, and how Canada can solve its current difficulties. For more information, contact Woodside at Ext. 2170 or Cadsby at Ext. 3320.

Registrar's Office thanks liaison personnel

The Office of Admissions is hosting a wine and cheese reception April 28 to thank all the University personnel who were directly involved in the secondary school programs co-ordinated by the office in 1985/86.

Some 182 faculty, staff and students participated in the programs, which include Guelph Interaction, Update '86, March Counselling, secondary school visits, New Student Dialogue, the Student Ambassador Program and liaison task forces.

The reception is at 4:30 p.m. in the Faculty Club, Level 5, University Centre. 0

High school students to gather for Third World workshop on campus

Seventy high school students from southern Ontario will be on campus next week for an introduction to issues in developing countries. The fifth annual "Adventure in Third World Understanding" will focus on women and development.

The students will attend workshops and discussions on such topics as food production, the impact of population control policies, health and nutrition, and human rights.

Keynote speaker Joyce Bynoe of Barbados will give a public lecture on women in development April 24 at 8 p.m. in Room 149, Macdonald Hall. The annual conference is sponsored by the Guelph Rotary Club in co-operation with the Centre for International Programs. Students are sponsored by local Rotary clubs or their own high schools and include Rotary exchange students.

Workshops are led by current and former Guelph graduate and undergraduate students with broad experience in the development field. Many are from developing countries themselves and have experience in the topics under discussion. 0

Library displays theatre archive material

The Library and the Department of Drama have mounted a special display of the University's theatre archive material, which will be in place on the main floor of the McLaughlin Library until May 9.

Among the items featured in the display are a series of costume and set drawings by the noted contemporary stage designer, Maurice Strike, and materials from past productions of the Shaw Festival Theatre.

Canadian poet and playwright James Reaney will visit the display and give a free public lecture in the Library May 1 at 3:30 p.m. His topic is: "NDWT: What Was it? The Birth and Death of a Theatrical Company."

The University's theatre archives include material from the Shaw Festival, CentreStage, Open Circle, Young People's Theatre, Phoenix Theatre, Grand Theatre, NDWT (Nc'er Do Well Thespians), Theatre Plus and Tarragon Theatre. Other theatre-related holdings include the Garrick Family Papers, the Macqueen-Pope Papers, the Maurice Strike Theatre Design Collection, the Professional Association of Canadian Theatres files, the Shaw Program Collection, and a Stratford Festival collection that includes prompt hooks on microfilm and reviews.

A grant from the Social Sciences and Humanities Research Council is assisting in the processing of these holdings, most of which have been acquired in the past three years. Access to the material is provided by the Library's online catalogue. 0



The Department of Zoology presented the Elgin Card Aylan Ecology Fellowship earlier this semester to graduate student David Prescott of Noranda, Quebec, second from Kathy Keiver of Vancouver, B.C., received the Norman James Aquatic Mammology Fellowship. At left is Prescott's supervisor, Prof Sandy Middleton; at right is Keiver's supervisory, Prof Keith Ronald.

Photo by John Hecox

Our people

Prof. **Ramon Hathorn**, Department of Languages and Literatures, has been invited to hold a guest chair of Canadian studies at the University of Augsburg in Bavaria for the summer term. While there, Hathorn will give courses on the history of theatre in Quebec and the contemporary Quebecois novel, and will lead a seminar on the City of Montreal in English and French Canadian fiction.

* * *

Consumer Studies student **Rose Olinyk** appears on the cover of the March 1986 edition of *The Canadian Apparel Manufacturer*, modelling one of her original designs. Olinyk is in her final semester in the textile and clothing program.

* * *

Prof. **Glen Lumis**, Horticultural Science, has received a grant from the International Society of Arboriculture for research on the influence of wire baskets on tree growth.

* * *

Prof. **Don Blackburn**, Rural Extension Studies, and Dr. **Clay Switzer**, deputy minister of the Ontario Ministry of Agriculture and Food, and former dean of OAC, are among seven men recently chosen fellows by the Agricultural Institute of Canada. The honors will be given July 6 at the institute's annual meeting in Saskatoon.

* * *

Prof. **John Proctor**, acting chairman, Horticultural Science, has been elected a Fellow of the Institute of Horticulture in recognition of his achievements in the profession. The institute is an international organization based in London, England, and dedicated to horticultural research and development, education and advisory services.

Prof. **O.P. Dwivedi**, chairman of the Department of Political Studies, has been appointed by the lieutenant-governor in council as a member to the Environmental Assessment Board for a three-year term. Dwivedi is also a member of the Scientific Advisory Panel of the Man and Biosphere Program, UNESCO.

* * *

Fine Arts student **Laurie Harrison** of Kincardine has received a 1986/87 Rotary Foundation Scholarship to study at the Lorien Novalis College of Teacher Education in Australia. Harrison, who graduates with an Honors BA this semester, is a part-time employee in the peer helper program in the Counselling and Student Resource Centre and is a volunteer art teacher with the Guelph and District Association for the Mentally Retarded. She will begin her studies in Australia in February.

* * *

Retired Supreme Court Justice **Emmett M. Hall**, who served as the University's chancellor from 1971 to 1977, will receive the 1986 Distinguished Canadian Award from the Seniors' University Group at the University of Regina. The award is given annually to an outstanding Canadian over age 60 who has made a significant contribution to Canadian life.

* * *

Film-maker **Norm Lightfoot** of Media Productions was a judge at the ninth annual International Wildlife Film Festival at the University of Montana. Lightfoot is known for his wildlife films, which include "The Hooded Seal" and "The Harp Seal" produced for the University, several freelance nature films for television series such as "The Untamed World" and "Audubon Wildlife Theatre," and a series on wildlife artists.

Appointments

Dr. Russell Willoughby, chairman of the Department of Clinical Studies, has been appointed first director of the Guelph Centre for Equine Research. He will take up the five-year appointment Sept. 1.

Morven Wilson became director of Computing Services April 11. He was previously associate director, Computing Systems Services. His appointment is for a five-year term. O

Job opportunities

As of at Guelph deadline April 18, the following opportunities were available:

Research Assistant, Chemistry and Biochemistry; grant position for about one year. Salary range: About \$ 1 8,000 per year.

Stenographer, Clinical Studies; temporary full-time from May 26, 1986 to May 22, 1987. Hiring range: \$244.42 to \$265.59.

Clerk, Maintenance Department; temporary full-time from May 1 to Oct. 31, 1986. Hiring range: \$278.81 to \$302.05.

Laboratory Technician, Veterinary Teaching Hospital; temporary full-time from May 1, 1986 to July 18, 1987. Hiring range: \$278.81 to \$302.05

Budget Analyst. Salary commensurate with qualifications and experience.

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

Production Assistant, Part-Time and General Studies. Salary range: \$270.64 minimum; \$308.87 job rate (level 5); \$380.47 maximum. Clerk II, Accounts Payable. Salary range: \$278.81 minimum; \$322.22 job rate (level 5); \$401.34 maximum.

Internal Auditor. Salary commensurate with qualifications and experience.

Administrative Assistant to the Provost. Salary range: \$21,930 minimum; \$27,413 mid-point; \$32,895 maximum; normal hiring range: \$21,930 to \$25,768.

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.

Lecturer at (GWC)2

Prof. Roger Parsons, department of chemistry, the University of Southampton, will be a distinguished lecturer at the Guelph-Waterloo Centre for Graduate Work in Chemistry May 11 to 17.

On May 12, Parsons will deliver a lecture on "Electrified Interfaces" at 3:30 p.m. in Room 160, Chemistry-Microbiology building. On May 16, he will discuss "Electrocatalysis" at 3:30 p.m. in Room 260, Chemistry-Microbiology. An informal reception in the Faculty Club, Level 5, University Centre, will follow the May 12 lecture. Parsons will also speak at the University of Waterloo, discussing "Adsorption on Solid Electrodes" May 14 at 3:30 p.m. in C2-171. O

Next Week at Guelph

THURSDAY, April 24, 1986

Schedule of Dates — ACADEMIC REVIEW.

Human Biology Seminar — ECOLOGY OF TURKANA PASTORALISTS IN KENYA, M.A. Little, 2 p.m., HB 108.

Understanding China Society — PEASANT REBELLIONS IN CHINA, D. Barrett, 8 p.m., Delhi Recreation Centre.

Public Lecture — WOMEN IN DEVELOPMENT, *Joyce Bynoe*, Mac Hall 149.

FRIDAY, April 25, 1986

Schedule of Dates — ACADEMIC REVIEW.

Sigma XI Centennial — THE PAST IS A KEY TO THE PRESENT, Bruce Sells, Peter Egelstaff, Howard Clark, Ward Chesworth, 9:15 a.m., UC 103; CO-OPERATION IN RESEARCH: KEY TO THE FUTURE, Larry Milligan, Bob Balahura, Iain Campbell, Ernie Holmes, 2:30 p.m., UC 103.

Guelph Spring Festival — TATIANA TROYANOS, mezzo-soprano, 8 p.m., WMH. \$14/\$17.

SATURDAY, April 26, 1986

Macdonald Stewart Art Centre — EVAN MACDONALD: A RETROSPECTIVE, 4 to 6 p.m.

Guelph Spring Festival — SAC KVILLE ALLSTARS, 8 p.m., Ross Hall, \$14.

SUNDAY, April 27, 1986

Worship — ECUMENICAL CAMPUS MINISTRY, Sunday services are available at St. Matthias (Anglican), Kortright and Edin, Kortright Presbyterian, Scottsdale, and Harcourt United Church, 87 Dean Ave.

Cycling Club — DIAGNOSTIC CLINIC, 9:45 a.m., ELORA GORGE, 45 miles, 10 a.m., UC south doors.

Reading — JUNE CALL WOOD, to aid Women in Crisis, 4 p.m., Bookshelf Cafe, \$12, 836-1110 for information.

Choral Concert — ANTHEMS FOR ALL SEASONS, Dublin Street Church choir directed by Gerald Manning, 4 p.m., Dublin Street United Church, \$4/\$5.

Guelph Spring Festival --THE TORONTO CHILDREN'S CHORUS, 8 p.m., WMH, \$14/\$17.

Library Hours

May 5 to Sept. 7, 1986

May 5 to July 20

Monday to Thursday (*except Victoria and Canada days*)

Fridays

Saturday, Sunday and holidays

Open Hours

8:30 a.m. to midnight

8:30 a.m. to 10 p.m.

noon to 10 p.m.

July 21 to Aug. 10

Monday to Friday (*except Civic Holiday*)

Saturday, Sunday and holidays

Open Hours

8:30 a.m. to midnight

noon to 10 p.m.

Aug. 11 to 18

Monday to Friday

Saturday and Sunday

Open Hours

8:30 a.m. to midnight

noon to 9 p.m.

Aug. 19 to Sept. 1

Monday to Friday (*except Labour Day*)

Saturday, Sunday and holidays

Open Hours

8:30 a.m. to 7 p.m.

noon to 7 p.m.

Sept. 2 to 7

Tuesday to Friday

Saturday and Sunday

Open Hours

8:30 a.m. to 10 p.m.

noon to 10 p.m.

Regular semester hours resume Sept. 8.

TUESDAY, April 29, 1986

Guelph Spring Festival — NEXUS, 8 p.m., WMH, \$12/\$14.

WEDNESDAY, April 30, 1986

OVC Seminar — TOTAL HIP REPLACEMENT IN MAN AND ANIMALS, Geoffrey Sumner-Smith, Joanne Cockshutt and Gail Anderson, 12:10 p.m., CS 508.

Cycling Club — EDEN MILLS, novice ride, 17 miles, 5 p.m., UC south doors.

Guelph Spring Festival — MARY LOU FALLIS, 8 p.m., WMH, \$8/\$10.

THURSDAY, May 1, 1986

Guelph Spring Festival — EINSTEIN, 1:30 and 8 p.m., Inner Stage, \$10.

Personals

For Sale: Bateman prints, 824-5865, after 4:30 p.m. Kitchen corner nook; fireplace insert; refrigerator; washer; oak dining table and antique chairs, 822-8204. 1980 Datsun 210, 4-speed, 2-door, 846-0861, after 7 p.m. Two purebred miniature long-haired Dachshunds, female, now four weeks old, 824-9579. Three-cushion natural pine couch, 823-1895. Boy's 10-speed bicycle, 821-2044, after 5 p.m. Shamrock truck camper, fully equipped, sleeps four, 822-0542, after 5 p.m. Cycling racing shorts, size III, men's medium, Glen, 763-0739. Wash/spin dryer machine; king-size waterbed bladder, Ext. 3775 or 824-0062, after 6 p.m. Heintzman 1920s upright piano, Ian, Ext. 8705.

Wanted: Used small tent trailer, Sandra, Ext. 2781 or 853-1157, after 6 p.m. Small apartment in Guelph for visiting faculty member and wife, no children, for Sept. 1, maximum \$500, Ext. 8528 or 822-0923, evenings. People aged 21 to 70 who are regular bulk laxative users, for a paid four-week home use study; leave your name and number at 853-3021. Exercise bicycle, 822-0542. Caring, imaginative person to spend one or two days a week with two- and four-year-old, own transportation an asset, must be somewhat flexible, 823-5282.

The following abbreviations are used in "Next Week at Guelph": APS-Animal and Poultry Science; UC-University Centre; L/A=Lennox/Addington; CM-Chemistry-Microbiology; PS-Physical Sciences; PCH=Peter Clark Hall; WMH-War Memorial Flail; MacK-MacKinnon building; ANNU=Animal Science Nutrition; FS=Food Science; CSRC=Counselling and Student Resource Centre; JH=Johnston Hall; NB-Human Biology; AC-Athletics Centre; Lib-McLaughlin Library; B&Z=Botany-Genetics-Zoology.



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