

## Proposal for horticulture, environmental biology complex goes to MCU for approval

An academic brief outlining the reasons why Guelph needs a new horticultural science and environmental biology complex has been submitted to the Ministry of Colleges and Universities. If approved as part of MC U's capital projects budget for 1986/87, construction of the \$21-million project could begin in 1987/88.

OAC Dean Freeman McEwen, head of the planning committee that prepared the brief, says the complex will be a project of the capital campaign, which is to be launched this fall.

The brief, received by Board of Governors last month for information, recommends locating the new joint facility in the area of Graham Hall. This would require demolishing Graham Hall and several small buildings adjacent to it. The brief also calls for demolition of the horticultural greenhouses southwest of the University Centre. The greenhouses are below industry standard, and impractical to upgrade because the frames are rotten, says Mc Ewen.

The Department of Environmental Biology, now housed in 11 different locations on campus, needs to be consolidated, says Vice-President, Academic, Howard Clark. A recent evaluation of the department's graduate programs by the Ontario Board of Graduate Studies concluded

that Guelph has a first-rate environmental biology program but "miserable" facilities, he says. OBGS gave the program a "B" rating because the state of the facilities seriously affects the quality of the department's academic program.

In the brief, the committee argues that the best value the University could get for dollars invested would be in a joint facility, because "by bringing the two departments together we could upgrade our facilities using a lot less space" than by building separately, McEwen says. Separately, the two departments would need a total of 125,535 square feet for teaching, research, office and greenhouse space; a joint facility would require about 12,000 square feet. Separately, the price tag would be more than \$23 million; combined, the estimated cost is \$21 million.

Bringing the two departments together would mean facility sharing, which the departments want to do because they are complementary in many ways, the brief says. The Department of Horticultural Science is responsible for research into plant production, and the Department of Environmental Biology is primarily concerned

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## City council passes resolution for more funds to universities

Guelph city council and Wellington County council have passed resolutions urging the Ontario government to fund the province's universities at least at the average of the other Canadian provinces. They are the first city and county in Ontario to pass resolutions of this kind, says Douglas Waterston, assistant to the president.

The resolutions, which have been forwarded to the provincial government and selected members of the legislature, are in response to a recent campaign by the Council of Ontario Universities to publicize the effects of, and possible remedies for, chronic underfunding of universities.

During the campaign, a COU delegation met with Guelph aldermen, directors of the Chamber of Commerce and representatives from the University community. The delegation included the presidents of York University and Ryerson Polytechnical Institute and Guelph's Vice-President, Academic, Howard Clark. COU delegations visited each of the province's university cities.

"There would be quite a major impact if city councils, chambers of commerce, county councils and service clubs adopted positions against underfunding," says Waterston. "They could have a positive influence on university funding by government." The provincial government has indicated a willingness to listen to public concerns about underfunding and has backed the COU publicity campaign in hopes that enough communities will respond to give the government a clear mandate to act on the universities' behalf, he says.

Guelph Mayor John Counsell says it's a shame that Ontario ranks below the majority of other provinces in per capita university funding, when 40 per cent of Canada's business takes place here. "We are the primary beneficiaries of university education," he says. Because business is increasingly technologically oriented, "we need to support higher levels of learning . . . that's the level at which (technological) advances take place." If Ontario's research and graduate programs aren't funded, he says, researchers will go elsewhere.

The board of directors of Guelph's Chamber of Commerce will consider a similar resolution at its meeting this month, says Waterston. 0



"Tiger Boys" Frank Evans, left, and Tom Dietrich want Yale 3454 to fly again. See story, page 4.

Photo by John Hearn, PR

# Corporate employees want graduates with broad-based education: sociology study

by Pamela Healey

Are university graduates being adequately trained for jobs in Canadian corporations? Prof. Fred Evers, Sociology and Anthropology, thinks they are, but there's some room for improvement, he says.

In a study with Prof. James Rush of the University of Western Ontario's School of Business Administration, Evers asked university graduates and managers of Canadian corporations about the relevance of employees' education for their jobs.

The study was funded by the Corporate Higher Education Forum, a group of university presidents and corporate chief executive officers that meets once a year to discuss and act on issues of joint interest. The group was concerned that corporate hiring needs were not being met and that university graduates were lacking in certain skills. Most of these opinions, however, were based on anecdotal rather than substantiated studies. As a result, The Task Force on Human Resource Management and the Status of Higher Education, chaired by Dr. George Connell, president of the University of Toronto, was formed, with Evers and Rush commissioned to do the scientific analysis.

The two researchers began by interviewing employees of Northern Telecom to gain insight into the crucial issues and to determine the skill categories where deficiencies might occur. Based on these interviews, a questionnaire was created and distributed to the member corporations of the Corporate Higher Education Forum. Some 442 university graduates and 213 managers of graduates from 20 corporations responded.

## General skills needed

Overall, there was general satisfaction with the skill development of university graduates, says Evers, but several areas of concern emerged. Business, engineering and science graduates felt they were well trained in quantitative and problem-solving skills and had the ability to work independently, but were deficient in written and oral communication skills. In contrast, graduates in the social sciences and arts felt much better about their communication skills and more negative with regard to technical training. Managers agreed with these assessments.

Evers says the main concern is lack of a broad-based education for many students. Both graduates and managers see a need for general educational skills such as those provided by liberal arts courses. Although a technologically advanced nation like Canada needs specialists in engineering and computer science, for example, these graduates must also have general skills to function in a corporation, says Evers.

A recent survey by the University and College Placement Association indicated that business finds liberal arts graduates more capable of assuming management positions than graduates of some more specific areas of study. Their broader base of knowledge makes them easier

to train and better able to adapt their skills to the job.

Evers sees this need for broad-based education, traditionally the goal of the bachelor's degree, as becoming even more important in the future. Because corporations are now providing fewer supervisors, employees need training that prepares them to make major decisions wisely, work independently, write well and give presentations. This comes at a time when the private sector is becoming a much bigger employer of university graduates, who have traditionally been employed in such public sector jobs as teaching or the civil service.

Although corporations can train their employees in specific technical aspects of a job, they can't give them the kind of liberal arts background available in universities. Evers says corporate training is becoming a big operation. In the United States, for example, a recent study by Eurich and Boyer found that eight million people were being trained and educated by American companies.

Evers and Rush made a number of recommen-

dations to the Corporate Higher Education Forum based on their research. They said more attention must be paid to the development of communication skills and that technical programs must not ignore the liberal arts.

They also said students should be better informed about career possibilities and job requirements so that they can choose the right courses at university. For example, chemistry majors planning on a career in business or industry should understand the importance of taking a writing or sociology course, and arts students should realize they can benefit from courses in computer science or business.

Corporate employers must also define their hiring needs and improve the current recruitment process, the researchers said.

Evers is now interested in follow-up research to obtain more specific information. He'd like to do a long-term study that follows a group of university graduates into their first jobs, obtaining feedback down the road at intervals of one, five and 10 years. This would allow him to determine cause and effect — pinpointing specific reasons for skill deficiencies in university graduates in the workforce. 0

## University signs \$2.5-million commitment to construction of new athletics facilities

The University has made a \$2.5-million commitment to construction of new athletics facilities on campus. The money is to come from the capital campaign the University will launch this September, says Provost Paul Gilmor.

President Burt Matthews recently signed a letter of agreement that sets out the conditions for student contributions to the new facilities. The letter was also signed by representatives of the Graduate Students' Association, the Central Student Association and the Athletics Advisory Council.

In a referendum held in February 1985, students agreed to pay \$5 each per semester over a two-year period before and during construction, and \$10 per semester for 10 years after completion of "a substantial portion" of the facilities, provided the University came through with its share of the funding.

Initial studies indicate that \$7.25 million is needed to renovate the existing rink for racket sports and a fitness area, to build a double arena and a swimming pool, and to put a bubble up over the tennis courts to the north of the athletics complex.

"There is a crying need for these facilities," says David Copp, director of Athletics. "This is such a great campus in every respect in the quality of student life except for this one nagging area."

As its part of the bargain, the University must raise \$2.5 million for construction costs. The other \$2.25 million will be mortgaged

over 20 years and paid for by facility rental fees.

Other signatories to the letter were Jaye Robinson, 1985/86 CSA president, Michael Bedford, 1985/86 GSA president, and Mark Harrison, head of the president's advisory committee on athletics. 0

### Proposal Continued from page 1.

with protecting the environment in which living things grow. The brief says that "production and protection of horticultural plants and the environment in which they grow requires integration of effort." An emphasis on the production of plants in the Department of Horticulture complements an emphasis on crop plant protection in the Department of Environmental Biology.

Research in horticulture and environmental biology is "essential to maintain a competitive position for the (Ontario) horticultural and food industry and to reduce Canada's requirements for imported produce," the brief says, but much of this research cannot be done, or done effectively, in Guelph's current facilities.

The brief also notes that creation of a joint facility would free up more than 46,000 square feet of space for other urgent University needs. The new building would release 22,316 square feet in the Horticulture building, 10,200 in Crop Science, 5,534 in Chemistry-Microbiology, 3,314 in Zoology Annex I, 3,115 in the Beef Barn, 1,750 in Animal Science and Nutrition, and 150 in Botany-Genetics-Zoology. 0

# TIME AND LOVE

## Grandparents rescue grandchildren in family crises

by Pamela Healey

Photos by Herb Rauscher, Illustration Services

When marriages break down and children are involved, it's often grandparents who come to the rescue of their grandchildren. That's one of the findings in a study of intergenerational family relationships by Family Studies professor Jim Gladstone. Grandmothers, in particular, tend to increase the time and emotional support they give to their grandchildren during such a crisis, he says.

Relatively little is known about the quality of relationships between older parents and their adult children, says Gladstone, and even less is known about the relationship between grandparents and grandchildren. He's interested in how different generations can help one another and particularly in the way grandparents give support to other family members. This is one of only a few Canadian studies on grandparenting and the first to describe what happens to this role during marriage breakdown.

Some 80 grandmothers participated in Gladstone's study, which was designed to learn about the frequency and type of contact and support these women provide both before and after marriage breakdown in their child's family. He says previous research indicates that pre-adolescents are more emotionally vulnerable to the effects of such family crises than are adolescents, who tend to have slightly better coping mechanisms. For that reason, he wanted to examine the way grandmothers help grandchildren under age 12.

He also hoped to discover what grandparents receive in return for their support, and to determine the role played by the son or daughter or a spouse as an intermediary in this relationship.

The study shows that after marriage breakdown the frequency of grandmother contact and support increases compared to the period before. Gladstone says he was impressed by the amount of time and love these women give their grandchildren. He found that 85 per cent of the grandmothers who live nearby visit, telephone or write a letter to their grandchild at least once a month. Sixty per cent of those who live more than an hour's drive away have some kind of contact as often. In both cases, there was a statistically significant increase in contact after the marriage breakdown. Gladstone sees this as the grandmother's response to a perceived need in her grandchild for support. Grandmothers spend time with their grandchildren, primarily in the home, involved in such activities as playing games, reading or baking cookies.

The amount and type of support also changed. Ninety per cent of the grandmothers living

close to their grandchildren provide some kind of support at least once a month. Some 85 per cent of those living farther away provide help at least several times a year. The type of support given includes caring for the child's



physical needs, helping with homework and teaching about morality, safety or nature.

Perhaps the most important type of support,

Gladstone says, is emotional. Grandmothers are a source of security, affection and closeness, and are often the only adults who take time to explain the marriage breakdown, reassuring children that they are still loved and not to

blame for their parents' problems.

Although half the grandmothers say they feel obligated to keep in touch with their grandchildren, 97 per cent stay in contact because they enjoy them, says Gladstone. For their time and effort, the grandmothers receive love, recognition, a feeling of being needed and a chance to retain a youthful self-image. These women also provide support for their adult children by babysitting, helping in emergencies, caring for sick grandchildren and providing gifts.

The adult child generally acts as a mediator, bringing the grandchild for a visit or giving approval or permission for the contact with the grandmother, says Gladstone. When the grandchild is living with the son-in-law or daughter-in-law, the grandmother is often dependent on her own child for access. A grandmother usually has greater contact when the grandchildren live with her child, he says, possibly because she feels more comfortable about visiting now that the spouse is absent.

Gladstone now wants to find out how long the grandmother's increased contact and support lasts and what happens when her son or daughter remarries. The mediating role becomes much more complex when step-parents, step-siblings and step-grandchildren are involved. Gladstone has received a grant from the Gerontology Research Centre for his work. 0

## NAME THIS PUBLICATION CONTEST

*At Guelph* may very well be a back-to-classic-Coke case.

Last November, the *News Bulletin* was renamed *at Guelph*, but it appears that many readers would rather fight than switch. The *News Bulletin* is a household name at this University, say many readers, and *at Guelph* appears not to have caught on.

So we're having a contest to select another name — and it could very well be the old one. The prize is dinner for two, wine included, at the Whippletree Restaurant on campus. Send your entry to: "Name that Newsletter," Public Relations and Information, Level 4, University Centre, by June 30. The 10 entries judged best by a selection committee will be published in *at Guelph*, and readers will be invited to vote for their choice. The winner will be announced in *at Guelph* in July. The contest is open to all members of the University community and friends of the University.

The winning name will become part of a new look for this publication, starting in September after the current paper stock runs out. You may have noticed the beginnings of some of these changes in the last few issues. We have been experimenting with typefaces, headings and graphics available on the new digital phototypesetting system in Publication Services. All copy for *at Guelph* is now sent over to the new system electronically. 0

# Yale will fly again, thanks to The Tiger Boys

by John Hearn

World War II pilots and crew members will gather at the Textiles building on campus later this year for a reunion marked by the maiden flight of a restored Yale 3454.

The Textiles building was a RCAF training centre during World War II, and it was here that Commonwealth trainees attended what was known as #4 Wireless School. The pilots flew trainers out of Birch, near Brantford, and the aerial photographs they took of the campus are now part of the University's archive collection.

After the war, one of the planes, a Yale 3454, found its way into the hands of Tillsonburg collector Ernie Simmons. According to reports, Simmons could have outfitted a banana republic

## Curtain going up on actor's workshop

The curtain goes up on a new actor's workshop on campus this July. The intensive two-week acting experience for 15- to 18-year-olds, which begins July 20, complements a one-week camp in general theatre arts for 12- to 14-year-olds July 6 to 12. Campers use the University's professional-quality facilities, which include two theatres, a costume shop, and makeup and prop departments.

"The idea for the actor's workshop began when drama campers last year asked for a more advanced program," says Prof. Brian Smith, Drama, director of the camp. Smith, who has taught acting to young people and drama educators across Canada, has chosen a "scene study" format for the actor's workshop. "The study of selected scenes enables young actors to discover how to analyse a play and build a character for stage presentation," he says. Skill workshops will be used to develop special areas such as voice and movement.

"I want these students to gain a realistic idea of what is involved in acting," says Smith. Acting isn't just a question of personality, talent or luck, he says. It takes a lot of hard work to develop an extensive emotional range and a range of skills that will enable an actor to play many roles.

The actor's workshop concludes with a stage performance in front of an audience.

"Theatre Arts," the drama camp for 12- to 14-year-olds, offers experience both onstage and backstage. The program covers improvisation, mime and theatre sport, as well as the technical aspects of lighting, sound, costume and makeup. Campers attend theatre performances to see how professionals put it all together, and special instructors show how to produce an event.

Social activities round out both camps and include movies, swimming, barbecues and trips. Campers can commute or live on campus in residence.

Registration for both camps is limited. For more information, contact Continuing Education, Ext. 3957. 0

army with the military hardware stored on his farm. The Yale 3454, along with 35 other trainers, survived a decade of Tillsonburg winters before being acquired by the "Tiger Boys" — Frank Evans and Tom Dietrich, famous among antique aircraft buffs for their restorations of Tiger Moths.

Evans, Dietrich and another partner, Bill Smith, with the enthusiastic support of OVC technicians Jim Rahn and Chris Lewis, both of the Veterinary Teaching Hospital, then set about the long, arduous task of reconstructing the Yale all the way back to what is referred to in the trade as "zero flying hours" — or showroom condition.

The task involved much research, including tracking down the original construction blueprints and maintenance manuals, says Rahn. They then had to locate or machine parts to specification, and replace every nut and bolt on the aircraft. Not the least of the chores was the restoration of the original 45-year-old motor.

While the work was going on, the Canadian government rescinded a regulation permanently grounding all Yales, and Bob Ratcliffe of St. Marys flew his Yale last Labor Day weekend.

Rahn says he expects Yale 3454 will fly again sometime before the end of this year. Triumphant clad in Dupont's original RCAF yellow, it will take to the skies above Guelph, possibly piloted by some of those who flew it back in the 1940s. A reunion of #4 Wireless School pilots and crews who flew and worked on Yale 3454 is planned to celebrate the occasion.

The Tiger Boys work out of #4 hangar at Guelph Airpark most afternoons and evenings. Antique aircraft buffs are always welcome, says Rahn, but telephone first at 836-6551. 0

## Contest catches high school attention for CIS

A Grade 12 Sioux Lookout student, Cameron McKinnon, will come to Guelph in 1987 with a \$1,200 fellowship in his pocket. McKinnon is top prize winner in the Department of Computing and Information Science's first software development contest.

Outstanding computer science students in high schools across Ontario were invited to develop computer programs that could be entered for one of three fellowships sponsored by CIS. Only students with a 75-per-cent average were eligible to enter, and they were required to work individually.

The objective of the contest was to identify quality students and to focus the attention of high school computer science teachers on CIS, says Prof. Allan Dyer. "Our pre-conditions were very tough, and the 17 finalists represented very high standards of achievement."

The task of initial screening fell to student Herb Hasler, who is president of the Computer Science Club, and some fellow club members. A faculty committee made the final selection.

Submissions were evaluated for completeness, presentation and clarity of documentation,

## Job opportunities

As of at Guelph deadline May 9, the following opportunities were available:

**Secretary**, Alumni Affairs and Development; temporary for approximately one year. Hiring range: \$270.64 to \$291.88 per week.

**Technician**, Department of Crop Science; grant position. Hiring range: \$368.51 to \$400.02 per week.

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

**Agricultural Worker**, Research Station Services, OAC; two positions. Salary range: start \$392.25; six-month rate \$409.92; one-year rate \$427.65.

**Technician**, Veterinary Microbiology and Immunology; temporary full time from June 1986 for approximately six months. Coverage for LTD. Hiring range: \$236.66 to \$256.64.

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, or telephone 836-4900.

## Bequests to FACS, OVC

A bequest of \$10,000 by a former faculty member in the Department of Family Studies will be used to fund research in family management or gerontology. Mary E. Singer, Mac '38D, taught at Macdonald Institute from 1951 to 1977, and was head of the Department of Family Studies from 1965 to 1969. She died Dec. 18, 1985, in Guelph.

OVC has received a bequest of \$15,000 from the estate of Elizabeth Holdsworth of Stittsville, Ont. The money is to be used to endow a graduate scholarship in the college. Holdsworth, who died Nov. 16, had an interest in small animals and associated research. She is survived by her husband, Harry. 0

## Mission to Ethiopia



Left to right: David Shulist, Jennifer Leith, Sam Vander Ende and Prof. Don Reid.

Photo by John Hearn, PRI

A special mission made up of a faculty member and three graduate students in the University School of Rural Planning and Development is on its way to Ethiopia to study and evaluate the work of the Holy Ghost Fathers in and around the town of Arba Minch near the Kenyan border.

Prof. Don Reid, organizer of the mission, says the invitation came from a Guelph graduate, Father Mahon, who is now head of the Holy Ghost Fathers in Arba Minch. The order

and the University are sharing the costs of the trip.

Jennifer Leith, a graduate student specializing in women in development, and two agriculturalists, David Shulist and Sam Vander Ende, are accompanying Reid to Ethiopia. They will spend three months with the Holy Ghost Fathers, evaluating their effectiveness in the field of rural development and suggesting ways in which their service can be improved. 0

## Changing nature of relationships theme of human sexuality conference

The theme of this year's Human Sexuality Conference, which runs June 9 to 11 on campus, is "The Changing Nature of Relationships: Sexual Scripts and Lifestyles Today." The eighth annual event, sponsored by the Department of Family Studies and the Division of Continuing Education, is the largest conference of its kind in the world.

Last year's conference attracted more than 800 teachers, counsellors, doctors, nurses, social workers and members of the clergy from Canada and the United States.

This year's plenary speakers are Dr. Pepper Schwartz, professor of sociology and women's studies at the University of Washington and co-author of *American Couples: Money, Work and Sex*; Brian McNaught, award-winning freelance writer, lecturer and certified sex counsellor, known for his lectures to professional and university audiences on homosexuality; and Dr. Joseph LoPiccolo, professor of psychology and psychiatry at Texas A & M University and author of books and articles on sexual dysfunction. Schwartz will speak on "Sexual Relationships in the 1980s," McNaught on "Growing Up Different" and LoPiccolo on

"How Do Our Sexual Scripts Cause Us Relationship Problems?"

A number of day-long pre-conference workshops are particularly designed for teachers and counsellors. "Teaching Teens About Relationships and Sexuality" is on June 8. Workshops on June 9 include "Using the 'Health Action' Model to Increase Sexual Responsibility in Adolescents" and "Sensitive Approaches to Controversial Issues in Sex Education," as well as two sessions of interest to therapists — "Incest: a Treatment Program for All Family Members" and "Sexuality and Disability: Issues and Methodology."

Three other workshops June 9 will be of more general interest. They are Anne Ruhl's session on "Overcoming Shyness and Developing Interpersonal Skills Among Young People and Adults," Connie Clement's and Shirley Wheatley's session on "Getting in Touch: Women and Sexuality" and Sam Luker's workshop on "Men in Transition: Dealing with the Issues and Conflicts Facing Men Today."

Information on the conference and the pre-conference workshops is available from the Division of Continuing Education, Ext. 3957. 0

## Student service workers want partnership role

Student service personnel at post-secondary institutions across Canada are looking for ways to make the Canadian Association of College and University Student Services more effective.

Provost Paul Gilmor has produced a discussion paper for CACUSS, outlining the challenges facing the association and suggesting some alternatives for its future.

Achieving a national consensus on the association's mandate is difficult, says Gilmor, because of the large distances between member institutions, and the fact that members come from different kinds of institutions and from different areas within the framework of student services itself. But it's important to reach a consensus, he says, because "as we come to understand education and learning more, we find that it does not fall into neat and tidy academic compartments. The more we know about personal, emotive and cognitive development, the better we all will be in fulfilling our responsibilities to students."

A primary goal of student service workers in the future, says Gilmor, will be to shift the role they play from that of institutional broker between students and faculty to "a stance of partnership with faculty on behalf of student learning." Professional development efforts will be critical in meeting that goal, he says.

Gilmor says he was asked to produce the discussion paper because Canadian professionals generally recognize that Guelph is "at the cutting edge" in the student affairs/services area. He met with association directors at institutions across the country during February and will make recommendations on changes to the association's structure at its annual meeting in June. 0

## Our people

OAC Dean **Freeman McEwen** received an honorary doctor of laws degree from the University of Prince Edward Island at its May 11 convocation ceremony.

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Prof. **Ken Kasha**, Crop Science, director of the Plant Biotechnology Centre, is to receive an honorary degree from the University of Calgary at its spring convocation ceremonies. Kasha will deliver the convocation address at Calgary June 2.

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The School of Engineering is hosting a retirement dinner for Prof. **Jack Pos** May 29 at the Guelph Holiday Inn. Anyone wishing to attend should contact Susan Lewis at Ext. 6187 by May 19.

# Forster Fellowship funds frontier research

by Ian Sloan

Support from Guelph's Alma Mater Fund, in the form of the year-old Forster Fellowship, is giving faculty an opportunity to pursue research at the frontiers of their disciplines. Named in honor of the late president Donald Forster, the fellowship provides funds for faculty development and rotates annually among the seven colleges.

Prof. David Murray, dean of the College of Arts, the first college to receive the fellowship, says it's appropriate that an award named for the late president should be used to support faculty research "because Forster believed very strongly in that. He perceived a great need in the University for release time for research."

The College of Arts named six Forster fellows in 1985, giving five awards for release time and one for travel. For Prof. John Leslie, Philosophy, the fellowship offered some time off from teaching to pursue his work on the "anthropic" principle and its place in modern cosmology. Leslie conceives of the "anthropic" principle as intrinsic to human intelligence, and he sets the idea that human intelligence has selected one among many observable universes to think in against the idea that the universe has been "fine-tuned" by some superhuman force to encourage intelligence.

Leslie has been invited to attend the 26th Liege International Astrophysical Colloquium this summer to deliver a paper on his thinking. The colloquium will give him his first opportunity to directly address scientists on the concept, he says.

Fine Art professor Chandler Kirwin received travel funds from the fellowship, which he used to visit European art museums last fall. He worked with prints and drawings by two Roman renaissance sculptors and architects, Borromini and Bernini, for a book he is writing on the arts of art and war during the pontificate of Urban VIII. Thanks to the fellowship funds, he says, he hopes to finish the book "within two years," much sooner than he had planned.

For Prof. Eugene Benson, English Language and Literature, the fellowship provided some release time last fall to develop a proposal for a Social Science and Humanities Research Council grant for the *Oxford Companion to Canadian Drama and Theatre*, a work he is editing with Prof. Len Conolly, acting dean of the College of Arts. The proposal was successful — Benson and Conolly received \$90,500 as a grant-in-aid of publication of the companion. Through the project, which will involve more than 100 scholars, the editors hope to promote more intensive research into familiar areas and to provide inducements for research in less familiar areas of drama.

Prof. Donald Mullin, Drama, used his fellowship-funded release time to research a book on Victorian stage dramas that is near completion. The fellowship allowed him a reduced course load. Prof. Gil Stelter, History, also used his leave time to work on a book — on early Canadian urban development. As well as delivering several papers, Stelter spent time in the eastern United States researching the New England background to maritime Canadian

urban design.

Another Canadian study supported by the fellowship is History professor Jamie Snell's research on Canadian divorce law. Snell used release time over the winter to dig into archives in Toronto for Ontario divorce facts and statistics. He has done similar research in Nova Scotia and finds results much the same in both provinces.

His study arises out of the question: Does law manipulate behavior? One of his findings is that divorce has been more frequent among the lower and working class in Canada than among the middle class. He suggests that the

closer in status individuals are to the lawmakers, the more likely they are to accept those laws.

Murray says the six Forster fellows were engaged in frontier research of major scholarship, much of it in interdisciplinary areas. The fellowships not only allowed the recipients to further their research, he says, but will benefit their teaching as well. "The person who is working on new ideas in research will be incorporating not only the research, but the methods and the excitement of research into teaching."

This year, the Forster Fellowship rotates to the College of Social Science. 0



*The Plant Biotechnology Centre hosted a workshop, "Biotechnology for Ontario's Forests," which was attended by 85 people from universities, industry and government. The presentations reviewed the state of woody species biotechnology in Ontario and the prospects for co-ordinated application of this research to enhance the value and productivity of the provincial forest industry. Above, left to right: Bill Cheliak, Canadian Forest Service, Petawawa; Dr. Rod Carrow, dean of forestry, University of Toronto; Ken Armonson, Ontario Ministry of Natural Resources, Toronto; Dr. Brian Ellis, acting director, Plant Biotechnology Centre; Joe Bird, Ontario Forest Industries Association, Toronto; Rod Seabrook, Great Lakes Forest Products Ltd., Thunder Bay; Doug Drysdale, OMNR, Maple; Jim Coles, Ontario Tree Improvement Council, Guelph; Bill Raitaneu, OMNR, Timmins; and Dr. Fred Pollen, CFS, Petawawa.*

## Focus on cattle health May 22

OVC and Continuing Education are sponsoring a Cattle Health Research Review Day May 22 at the Arboretum for producers, veterinarians, agronomists and others associated with the cattle industry. The program will focus on the findings of biotechnology research in field trials.

"Biotechnology is rapidly emerging as a major bovine health research area," says the program's co-ordinator, Dr. Ken Leslie, Clinical Studies. At the morning session, OVC and OAC faculty will present and discuss recent research results and likely future developments in biotechnology. Topics will include the effects of *Ureaplasma diversum* on cattle embryos, a use for autogenous tissue culture vaccine in therapy, and the implications of bovine somatotrophin for productivity and health of dairy

cows.

Dr. Bruce Wilkie, Veterinary Microbiology and Immunology, will describe the work of the Guelph/Waterloo Biotechnology Centre and future prospects.

In the afternoon, the focus will be on field studies, with an emphasis on the design of clinical trials and interpretation of results. Sessions will cover the effectiveness of various antibiotics in the treatment of respiratory disease in feedlot cattle, a comparison of single and double dry cow therapy for the treatment of *Staphylococcus mastitis*, and a comparison of natural and induced estrus on pregnancy rate with frozen cattle embryos.

Registration fee for the day is \$65. For details, contact Continuing Education, Ext. 3064. 0

**THE MAY 22** meeting of Board of Governors has been cancelled. The next scheduled meeting is June 26.

**THE UNIVERSITY OF GUELPH** Faculty Association/Club will hold a golf tournament at the Guelph Country Club June 26, with tee off at 1 p.m. Prizes will be awarded at a dinner that begins at 6:30 p.m. Cost is \$20 per person, including green fees and dinner. For more information, contact the Faculty Club or the UGFA office.

**ANYONE INTERESTED** in discussing the formation of a Guelph Status of Women Action Group is invited to attend an open meeting May 20 at 7 p.m. at the Guelph Arts Council Centre, 21 King St. Representatives from the London action group will discuss their development over the past 10 years. For more information, contact Katherine Elliott, 824-4043.

**THE GUELPH ARTS COUNCIL** is again offering historic Guelph walking tours from May to September. The tours are based on two historical booklets written by the late Gordon Couling, first chairman of the Department of Fine Art. Walking tours are scheduled for May 25, June 1 and 22, July 13 and 27, Aug. 10, and Sept. 14 and 28. They begin at 2 p.m. from the Guelph Civic Museum, 6 Dublin St., and last about two hours. Cost is \$2 per person. The council will also make special arrangements for small groups wishing to take a walking tour on a date other than those specified above. For more information, contact the council at 836-3280 Monday to Friday from 9 a.m. to 4 p.m.

**THE GUELPH YM-YWCA**, 400 Speedvale Ave. E., will hold a used book sale June 6 and 7 from 1 to 4 p.m. For more information, telephone 824-5150.

**THE CANADA COUNCIL** seeks nominations for the Izaak Walton Killam Memorial Prizes and applications for the Killam Research Fellowships. The memorial prizes, valued at \$50,000, are normally awarded in each of three areas — the natural sciences, engineering and the health sciences. Scholars must be nominated by three experts in their fields. The fellowships are offered on a competitive basis and are to provide release time to individual scholars. Applications are available from the Graduate Studies Office and the Registrar's Office. Deadline for both the memorial prizes and the fellowships is June 30. Nominations and applications should be sent to the Killam Program, Canada Council, 99 Metcalfe St., P.O. Box 1046, Ottawa K1P 5V8.

**THE GUELPH ARTS COUNCIL** seeks nominations for the 1986 heritage awards, which honor individual homeowners, businesses and civic properties that have made outstanding contributions to the preservation, restoration and development of heritage properties. Nomination forms are available at the arts council, 21 King St., the Guelph Civic Museum and the Guelph Public Library. Deadline for nomina-

tions is May 15. The awards will be presented June 22 at 2 p.m. at the museum.

**THE GUELPH UNDERSTANDING** China Society presents a talk on acupuncture and other traditional Chinese medicine May 22 at 8 p.m. at the Delhi Recreation Centre. The speaker is Dr. Liang Zhiying, a doctor at McMaster University on exchange from China.

**DAY CARE** is available in Guelph for children 2 1/2 to five years of age. Both full- and half-day programs are offered. For more information and registration, contact Brenda at 837-2245 or Dianne at 836-7281.

**THE DEVELOPMENT EDUCATION PROGRAM** has published *Women and Development: Beyond the Decade, Proceedings of the Conference* held at Guelph in September 1985. The program has also published a *Guide to Practical Resource Materials of the Decade*, which includes a list of guidebooks on integrating women in the development process. The publications are available at \$5 for postage and handling from the Development Education Program, 15 University Ave. E.

**AS PART OF** Agriculture Canada's celebration of its 100th birthday June 1, the Vineland Research Station in the Niagara Peninsula will hold an open house from noon to 4 p.m. Visitors can tour the research facilities of the station, as well as the greenhouses of the Horticultural Research Institute of Ontario. The station is located just north of the Queen Elizabeth Way on Regional Road 24, about 35 kilometres east of the Burlington Skyway and 15 kilometres west of St. Catharines.

### In search of London

"Let me take you by the hand and lead you through the streets of London ..." These lyrics from a hit song by Cleo Laine serve well to introduce a five-day course at Guelph's Summer Campus '86.

Dr. David Schweitzer of Guelph, who spent three years in London studying British history, will introduce the course "In Search of London" with films and slides focusing on the historical, architectural, cultural and political vistas of the city. He will trace the history of London back to pre-Roman times and show how the city of Chaucer and Shakespeare evolved into the capital of Victoria's empire and the linchpin of Churchill's fortress Britain.

London's famous landmarks — Buckingham Palace, Parliament, the Abbey and St. Paul's — receive their due, as do lesser-known sites.

A literary pub-crawl around London is the subject of one convivial evening, during which participants will discover the favorite haunts of Samuel Johnston and Charles Dickens. The series concludes with a trip through musical, theatrical and artistic London.

For more information, contact Continuing Education, Ext. 3956. 0

## OVC job a chance for creative pharmacology



"Do you have anything for a falcon with lead poisoning?" That's the question that made OVC pharmacist Don Weiss realize his new job had taken him into a whole new world.

Such questions rarely arise in human pharmacy, says Weiss, who came here last October after a long stint as assistant director of pharmacy at the Henderson General Hospital in Hamilton. And there are no handy references in the pharmacopea under "falcons, poisoning of, lead." So when the question came up, he realized he was on his own.

But not quite. Another surprise for Weiss was the amount of help available to him from OVC faculty, technicians, clinicians and administrators, who collectively have a great deal of experience with the special problems of animal pharmacy.

This is fortunate, says Weiss, because there are only four veterinary pharmacists in Canada, and they, too, must continually deal with problems for which there is little precedent.

In human pharmacy, there is a vast body of knowledge and an array of specifics for almost every conceivable condition, he says. Many of the human drugs are adaptable for veterinary usage, but in the case of large animals, their size requires much larger, and therefore prohibitively expensive, doses. "The result is that we find ourselves doing very much more original compounding here than is normal in human pharmacy."

The opportunity for creative initiative was what appealed to Weiss when he applied for the OVC position. A 1975 graduate of the Philadelphia College faculty of pharmacy and science, he was ready after 10 years in the field to seek a more creative outlet for his skills. "Veterinary pharmacy is far more labor-intensive than human pharmacy, and far more interesting. One works from the same basic facts, but they must be modified to meet new situations.- 0

## Next Week at Guelph

### THURSDAY, May 15, 1986

**Human Biology Seminar** - LONGITUDINAL CRANIO FACIAL GROWTH: PROBLEMS AND SOLUTIONS, P. Buschang, 2 p.m., HB 108.

### FRIDAY, May 16, 1986

**Schedule of Dates** - LAST DAY for clearance to graduate for spring convocation; LAST DAY for submission of student petitions, first meeting.

**Guelph Field Naturalists** - BROADENING HORIZONS, second annual Ontario Hiking Conference, information, Jim Pierce, 821-3057.

**Distinguished Lecturer Series** - ELECTROCATALYSIS, Roger Parsons, 3:30 p.m., CM 260.

**Cycling Club** - BARBECUE, contact Dave/Maggie Laidlaw, 837-1732.

### SUNDAY, May 18, 1986

**Worship** - CATHOLIC MASS, 10:10 a.m., Alumni Lounge; 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** - BELWOOD, 50 miles, 10 a.m., UC south doors.

**Arboretum** - THE SPRING WOODS WALK, 1 p.m., Nature Centre.

### MONDAY, May 19, 1986

**Schedule of Dates** - VICTORIA DAY, no classes scheduled.

### TUESDAY, May 20, 1986

**Senate, MEETING**, 5 p.m., PS 113.

**Cycling Club** - MEETING, 7:30 p.m., AC 203.

### WEDNESDAY, May 21, 1986

**Cycling Club** - DOWNEY ROAD (novice ride), 5 p.m., UC south doors.

**Arboretum** - WEDNESDAY EVENING EXCURSION, BIRDS, 7 p.m., Nature Centre, cancelled if raining at 5 p.m.

### THURSDAY, MAY 22, 1986

**Guelph Understanding China Society** - ACUPUNCTURE and other traditional Chinese medicine, Liang Zhiying, 8 p.m., Delhi Recreational Centre.

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 Hall; MacK=MacKinnon building; ANNU=Animal Science Nutrition; FS=Food Science; CSRC=Counselling and Student Resource Centre; JH=Johnston Hall; HB=Human Biology; AC=Athletics Centre; Lib=McLaughlin Library; B&Z=Botany-Genetics-Zoology.

## Personals

**For Sale:** 1974 Pinto station wagon, 837-2316. Student trumpet (Academy); 19 sheets of plate glass, from 16" x 30" to 32" x 42", Ext. 2435 or 821-2524. Double waterbed, with headboard and pedestal base, Ext. 6579 or 856-9245. S&S 34 sloop with racing/cruising sail inventory, refrigeration; Avon inflatable sport boat with Volvo 9.9 outboard, cover, trailer, Ext. 3797 or 824-8254, evenings. Nine-year-old hunter-jumper mare; three-year-old filly, green broke, Heather, 824-7674. 1985 Renault Encore, 824-5373. 14-foot Hobie Cat turbo, with self-furling jib and trailer, 821-5502, after 5 p.m. 1982 Honda XL 125 S, 822-6013. Male German short-haired pointer, five months old, 823-2159, after 5 p.m. 1982 Ford Escort, Ext. 2054 or 837-2205, after 6 p.m. 1976 Datsun, 822-6337, after 6 p.m. Complete darkroom; queen size bed; upholstered chair, 763-0195. Ice cream, Room 025, Food Science building, \$12 for 10.2 litres. 1978 Datsun 210, four-door,

four-speed, 824-3178, after 5:30 p.m. 1980 Mini, 837-1937, evenings. 1972 Westphalia camper van, 837-1394 or 821-7703. Airline ticket, Toronto to Vancouver, one way, female, May 29, 8:15 a.m., 837-2158.

**Wanted:** To buy, older two- or three-bedroom house or townhouse, within walking distance of University, 658-9938, after 6 p.m. Rabbit cage, Ext. 6440 or 821-3941. Two- or three-bedroom cottage in Haliburton for week of June 30 to July 5, Lloyd, Ext. 2398. Used windsurfer, 658-9938, after 6 p.m. House or two-bedroom apartment with yard, in country or town, Katherine, Ext. 4670 or 821-8096. To rent, two-bedroom townhouse, near shopping facilities, 824-0845, evenings. To buy, two- or three-bedroom townhouse within walking distance of University, 658-9938, after 6 p.m. Room in farmhouse with option to keep horse and goats, call Michael or Audrey collect, 1-599-6724. Ladies' touring bicycle in good condition, Karen, Ext. 2077 or 822-2945, evenings.

**Available:** Professional word processing, high quality, fast turnaround, 837-1410.

**For Rent:** Three-bedroom furnished house, air conditioning, deck, fenced yard, five-minute walk from University, available Oct. 1 until Aug. 1, 1987, \$625 plus utilities, 837-2756.

The "Personals" section of *at Guelph* is offered as a free service to the University community. Submissions must be made **in writing** by Thursday at noon, one week prior to publication.

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What is this thing called love?

What are the myths and what are the realities? Can there be intimate relationships between men and women in which sex is not an issue? What is the chemistry that draws some people together and pushes others apart? How can love be kept alive throughout a relationship that is intended to last a lifetime?

These are a few of the questions Prof. Sam Luker, chairman of Part-Time and General Studies, will discuss in his non-credit course "A Love For All Seasons" July 10 and 11 at Summer Campus '86.

Luker, a specialist in marriage and the family and in human sexuality, will draw on his experience in academic and clinical psychology. He emphasizes, however, that the course is not therapy. "I want to provide people with a chance to share ideas and experiences in order to gain better understanding and confidence concerning this endlessly fascinating subject."

For information, contact Continuing Education, Room 160, Johnston Hall, Ext. 3956. 0



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