



Volume 30 Number 22 June 5, 1986

Mark this date on your calendar: Thursday, July 10, Community Barbecue. (More details closer to the date.)

## Princess Anne to turn sod for equine research centre

Her Royal Highness Princess Anne will visit the University June 23 to turn the first sod for the Guelph Centre for Equine Research. Plans for the visit were announced by Ottawa May 29.

The royal party is expected to arrive in Guelph at 10:30 a.m. at St. George's Square, where Mayor John Counsell will officiate at a civic reception.

President Burt Matthews will greet the princess at 10:50 a.m. on her arrival at the site of the sod-turning ceremony on McGilvray Street

on the west side of the campus. Representatives of the Canadian equine industry and University officials will attend the ceremony, which will initiate construction for the most advanced centre for equine research in the world.

Following the sod turning, OVC Dean Ole Nielsen and Dr. Russ Willoughby, newly appointed director of the centre, will conduct the princess on a tour of OVC facilities.

The campus visit will conclude with a civic luncheon in Creelman Hall, hosted by the mayor. 0

## Centre to address problems in equine industry

by Ian Sloan

The Guelph Centre for Equine Research is off and running, funded by a special contribution from the Ontario Racing Commission and pledges from 50 breeders and owners in the horse industry. The campaign is now within striking distance of the targeted \$2.3 million, says the newly appointed director of the centre, Dr. Russ Willoughby.

The racing commission has donated \$1 million towards the \$2.5-million cost of the first phase of the project through a special levy on bets made at Ontario race tracks. "This means that everyone (in the racing industry) is contributing — from the grooms and jockeys to the breeders and owners," says Frank Drea, chairman of the commission.

This contribution indicates just how important research and development is to the equine industry as a whole, says Drea. "At a time when other industries are going to the government looking for handouts, we've gone and provided the support ourselves. The industry is providing all the capital to get the centre going."

Drea says this support of the centre contrasts sharply with the situation in the United States, where equine research is conducted in facilities donated by a handful of people. "We're the envy of equine authorities around the world."

Willoughby says the aim of the centre is twofold — to obtain diagnoses into chronic illness, which "will have a direct impact on the breeding industry," and to develop standards in equine upbringing and maintenance.

Although the University itself is unable to make a financial commitment to the project, he

says, it is providing land, expertise, standards and contacts.

The equine industry is big business in Canada. In Ontario alone, about 43,000 jobs are equine-related, from breeding to the race track. That's more than in the iron and steel industry, Drea says. And more than half of the million horses raised in Canada are raised in this province. "We have some of the best blood stocks in the world — E.P. Taylor's Windfield Farms, for example, home of Northern Dancer and his offspring."

The Canadian equine industry also has a favorable balance of trade with the rest of the world. In fact, Ontario has the third largest thoroughbred horse market in the world. Because international competition is fierce, says Drea, "we have to have the research, otherwise other countries will overtake us."

A renewed research effort in Ontario will require co-operation among breeders, owners, government and OVC, says Willoughby. Dr. John Hayes, OVC '73, a veterinarian who trains and races standardbreds, says: "Bridging the gap between the field and the source of knowledge is the best way to advance the industry." Although research has always taken place in Ontario, university resources have been underused by the equine industry, says Drea. But "when the industry discovers what Guelph offers them," says Hayes, "it will be like the discovery of indoor plumbing after using outdoor plumbing for years."

A big push in the new centre will be on improving the flow of information between the



Princess Anne

Photo by M. Garamszeghy

## Lifelong love of horses

When Princess Anne turns the sod to mark the start of construction of the Guelph Centre for Equine Research June 23, she will bring more than a royal presence to the occasion. She will also bring a lifelong love of horses that will be shared by many of the 350 members of the Canadian equine industry and University officials who have been invited to attend the ceremony.

Anne has been riding horses almost since she was able to walk, and began competing as a rider in 1969. In 1971, at the age of 21, she won the European Championship in the sport of eventing, and went on to compete in the 1976 Olympics in Montreal. She has participated with British teams all over the world.

Sixth in line to the British throne, Anne carries out hundreds of official engagements each year and holds more than 60 official appointments. She is president of the Save the Children Fund, a patron of the Riding for the Disabled Association, an honorary member of the British Equine Veterinary Association, president of the Hunters Improvement and Light Horse Breeding Society and patron of the Jersey Wildlife Preservation Fund. She holds 23 military positions, including colonel-in-chief of the 8th Canadian Hussars, and is involved with six livery companies.

Married in 1973 to Captain Mark Phillips, who holds an Olympic Gold Medal for riding, Anne has two children: Peter, 8, and Zara, 5. 0

Continued on page 2.

Centre Continued from page 1.

University and the equine industry. Instead of the University being a "remote, pedestaled institution," says Hayes, the centre will help it become like a family doctor, whom you "call up and ask about a two-day-old cold."

Willoughby plans to hire a full-time information officer who will obtain information from the industry and disseminate research findings among industry members. "Generally speaking, that's where research places get into trouble — research is going on, but the results aren't going out," he says.

Willoughby says the centre will help fill two big voids in the equine industry — the lack of opportunities for researchers to find solutions to common problems and the need for training

of high-quality graduate students for future research and service positions in Canadian universities, government and the industry. With the centre located close to OVC and OAC, but separated from the activities at these and other facilities on campus such as the Large Animal Clinic in the Veterinary Teaching Hospital, researchers will have a centralized place to work, he says. This will allow equine research to proceed without getting in the way of teaching and service, and vice-versa.

The 10,000-square-foot centre, to be built on four acres, will include paddocks, offices, research laboratories, meeting rooms and 20 stalls for horses. "We are designing stalls so that horses are separated, while within sight of each other," says Willoughby. "That way there is no risk of disease spreading among animals

loaned or brought to the centre."

Four of the 20 stalls will be isolation stalls, "so we can isolate and study infections occurring in the field." And one of the laboratories will be equipped with a treadmill so that animals can be tested while working at racing speeds.

Willoughby says the main emphasis of the centre will be on the study of major problems affecting the equine industry. His first order of business as director "will be to consult with industry and government to find out what the major problems are to address. Most people consider respiratory and cardiovascular disorders, breeding efficiency and infertility, and growth, development and performance problems to be the major issues, but we will have to check to sec." O

## Willoughby is equine centre's first director



Russ Willoughby Photo by Tim Sullivan, Media Productions

### Animal disease research funded

OVC has received the lion's share of 1986 awards from the Canadian Veterinary Research Trust Fund for animal disease research. OVC researchers received \$65,900, some 43 per cent of the funds disbursed this year.

The trust fund, established in 1973, supports research on the diseases of a variety of animals, including dogs, cats, horses, food-producing animals, poultry and zoo animals. The primary source of funding is the royalties from the Pet Food Certification Program of the Canadian Veterinary Medical Association.

Guelph awards went to Prof. Ian Johnstone, Biomedical Sciences, for his study of "Hemostatic Parameters in Horses with Exercise-Induced Pulmonary Hemorrhage;" Profs. Peter Little and Steve Groom, Pathology, for their "Investigation of Outer Membrane Virulence Factors of *Haemophilus somnus*;" Prof. Ann Gibbins, Animal and Poultry Science, for her work on the "Construction of Diagnostic Probes for *Ureaplasma spp.* Implicated in Bovine Reproductive, Urinary and Respiratory Tract Diseases;" and Profs. William Black and Peter Eyre, Biomedical Sciences, for "A Pharmacological Study of Laminitis." O

For Dr. Russ Willoughby, who has spent the past four years helping turn the Guelph Centre for Equine Research into reality, the toughest part of the task is now over.

The money needed to complete Phase One of the project, the on-campus phase, has been pledged, Dick Williams and Associates of Toronto has been chosen as the architect, sketches have been decided on, and June 23 has been set as the date for the sod-turning ceremony.

Willoughby, who has been acting director of the centre since 1982 and becomes official director Sept. 1, hopes that construction work can go to tender in the fall, and that if everything works out as planned, the facility will open in the fall of 1987.

Bob Anderson, a St. Thomas horseman and chairman of the equine centre's advisory council, says the centre is fortunate to have Willoughby as its first director because his experience and knowledge of the equine industry in Ontario and Canada rank him at the top of the field in Canada.

Without Willoughby's determination and spirit, the centre "just wouldn't be there," says Frank Drea, chairman of the Ontario Racing Commission. Willoughby never lost faith when he ran into problems getting support, says Drea. Many others "would have thrown up their hands, but he didn't. Everyone in the industry owes Russ a tremendous debt."

### Equine advisory committee named

An advisory committee made up of representatives from the equine industry, the Ontario Racing Commission, the Ontario Ministry of Agriculture and Food, and the University has been formed to be the major decision-making body of the new equine centre.

The committee will meet regularly to review research priorities and progress. It will also advise the director of the centre on research needs based on input from the equine industry.

Members of the council, who will serve for three-year renewable terms, are: Robert Anderson, chairman, St. Thomas, thoroughbred sector; Dr. Ken Armstrong, Strathroy, stan-

Willoughby sees the opportunity he has as director to work in a joint venture with the equine industry as a "great challenge." Because the University is part of society, he says, "we should be more definitely involved in solving the problems of the industry. I'm really enthusiastic about the whole concept."

Willoughby finds another challenge in his appointment that he traces back to his clinical studies background. "I see it as a marvellous opportunity to do work on naturally occurring diseases and get the results back to practising vets and horsemen."

Originally from Saskatchewan, and a 1957 graduate of OVC, Willoughby joined the Department of Clinical Studies in 1965 after completing his PhD at Cornell University. Since then he has taught at both the undergraduate and post-graduate levels and conducted research that has been published in more than 50 papers and books. His speciality is veterinary internal medicine.

He and his colleagues have developed fluid therapy techniques for large animals, respiratory function testing methods for horses, and, through a \$215,000 Max Bell Foundation grant, a method for simultaneously assessing the heart and respiratory rates and the gait of horses under racing conditions.

Willoughby has been chairman of the Department of Clinical Studies since 1983, and was associate dean of research at OVC from 1978 to 1983. O

dardbred sector; Cam Schantz, Plattsville, draft horse sector; Dorinda Fuller, London, pleasure horse sector; Walter Hellyer, Waterford, quarter horse sector; Dr. Rolf deGannes, Oshawa, veterinarian; Dr. Richard Roelofson, Ontario Racing Commission; Dr. Clare Rennie, assistant deputy minister, OMAF; Dr. Anthony Van Dreumel, OMAF, veterinary section; Prof. John Burton, Animal and Poultry Science; Dean Ole Nielsen, OVC; Dean Freeman McEwen, OAC; Dr. Larry Milligan, dean of research; Jack Pemberton, Toronto, co-chairman, fund-raising committee; and Dr. Don MacDonald, Toronto, co-chairman, fund-raising committee. O

# Microbiology professor receives 1985 OCUFA teaching award

If anyone had suggested to Microbiology professor Norm Gibbins 19 years ago that he would one day receive Ontario's highest honor for excellence in university teaching, he'd have likely shaken his head in disbelief.

When Gibbins, one of 11 professors to receive a 1985 Ontario Confederation of University Faculty Associations teaching award, first came to Guelph in 1967, his primary interest was doing research. Teaching, he says, was something "I couldn't be bothered with — it just got in the way." As a result, "I was ineffective in the classroom; my teaching record was poor."

Gradually, however, after a few years of doing research and starting to become more involved in teaching core courses within the Microbiology Department, Gibbins's outlook started to change. "I began to have a growing appreciation of the importance of the teaching profession in maintaining the continuity of human beings." As professors pass on their knowledge and experience to students, he says, "we are building something that is going to continue. What we say is going to be carried out of that classroom forever."

With his realization of the importance of teaching, Gibbins says he also became aware how important it is "to maintain a strong sense of responsibility in what I say in the classroom. What you say has to be very carefully said and thought about. You must be well-prepared." In addition, he says, "you must always be aware of where you are and what you're doing in the classroom. For example, you have to remember there are students in the back of the room — there's no use just talking to the front row."

Effective teaching requires "human sympathy and sensitivity in large measure, and an appreciation of differences between people," says Gibbins. "You can't talk about students as an object. Each student is an individual and must be responded to in an appropriate and individual way. That can be difficult when you have 650 students, but you have to try."

Gibbins says much of what he knows about teaching effectively he has learned from his students. "The learning process goes in both directions," he says, "and the opportunity to learn from students must be taken. If a teacher walks into the classroom making the basic assumption that he's the smartest guy in the room, he's looking for a fall."

Good teaching requires a commitment, says Gibbins. "It has to be important to you, or you will fail." Unfortunately, however, the university system's emphasis on research in getting tenure means that "research and research productivity tend to be seen as more important than teaching." Good researchers will usually be forgiven if their teaching is mediocre, he says, but the reverse is rarely true. As a result, "many younger faculty relegate teaching to a secondary position. This doesn't mean they're bad professors — they're just not as good as they could be. We're not realizing the full teaching potential of the younger people."

Part of the problem, says Gibbins, is that "most people think of research as working in a lab, doing experiments, writing papers. But research can mean other things. When you



Norm Gibbins

Photo: John Hearn, PRI

have to present an issue to a large class, you have to find the information, put it all together and distill it into a coherent form. That involves just as much research as going into a lab."

Teaching should be considered a form of scholarship, he says. "You have to read, analyse, synthesize and digest in exactly the same way you do to prepare a scholarly work. The only difference is that a teacher speaks the results of his scholarship, and a scholar puts it into writing."

Although Gibbins maintains an active research program, "I am predominantly a teacher, and very glad to be. There is tremendous satisfaction in explaining something and . . . in seeing understanding develop. I have gradually realized that teaching is what I do best."

Ken Gregory, chairman of the Department of Microbiology, says Gibbins's excellence in teaching involves more than just his classroom performance — it also involves a dedication to curriculum development and the overall qual-

ity of education. His contributions in these areas include serving as chairman of the department's undergraduate curriculum committee, vice-chairman of the B.Sc. program committee and chairman of the Board of Undergraduate Studies.

Gibbins will receive the OCUFA award at a luncheon in Toronto June 13. He says his acceptance of the award will represent a personal commitment and a responsibility to seek to improve and develop his teaching skills.

He stresses, however, that he won't be accepting the award solely as a mark of his own achievement, but also as "a mark of the high standards set over many years by my colleagues, particularly in the Department of Microbiology." Effective teaching "can't happen in isolation," he says. "It depends on many things, including the overall quality of the environment in which it is occurring." 0

## Local students win at Science Fair

Wellington-Waterloo students who entered the Canada Wide Science Fair held in Calgary in May brought back several prizes.

David John Ujimoto, a Grade 11 student at Centennial CVS and son of Sociology and Anthropology professor Victor Ujimoto and his wife, Mutsuko, won a \$600 IBM scholarship and an honorable mention for his computer program for translating Latin to English.

Rob Stephenson, a Grade 13 student at St. John's Kilmarnock School in Waterloo, and son of Environmental Biology professor Gerry Stephenson and his wife, Marilyn, won a \$100 honorable mention for his project on the biological control of corn borer by wasps.

Kiranjit Bali, a Grade 8 student at Willow Road Senior Public School in Guelph, won the David Suzuki Communications Prize of \$100 and an honorable mention for her project on the effects of different raising agents on muffin making.

The University is a major sponsor of the fair and provides several members on the executive committee, as well as between 20 and 30 judges every year. 0

## Appointments

Prof. Anne Martin-Matthews has been reappointed director of the Gerontology Research Centre for a second three-year term that began May 1.

Prof. Douglas Auld has been reappointed chairman of the Department of Economics for a second five-year term effective July 1.

Dr. Padraig O'Cleirigh will become assistant professor in the Department of Languages and Literatures July 1.

Tony Vyn will become assistant professor in the Department of Crop Science March 1, 1987. The appointment is contingent on Vyn's completion of his PhD. 0



Cheryl Greenlees

## THE TOPS

### FACS student named Winegard Medallist

Cheryl Greenlees of Caledonia is to receive the Winegard Medal for 1986. Guelph's most prestigious undergraduate award, the Winegard Medal is presented annually to the most outstanding graduating student.

Greenlees graduates *with distinction* June 6 with an honors bachelor of applied science from the College of Family and Consumer Studies.

A Winegard medallist must combine a top academic record and active participation in extracurricular activities with the personal attributes of a leader among peers and a conscientious citizen.

During her high school and university career, Greenlees has won 15 academic scholarships, including the prestigious H.H. Harshman Scholarship and the Joan Doherty Memorial Scholarship. She has also demonstrated qualities of leadership in extracurricular activities and summer employment placements. She has been a student senator, president of her class and

president of the FACS Student Activities Council, and has served on the Board of Undergraduate Studies, the Work-Study Program subcommittee, the Academic Excellence Task Force *ad hoc* committee, and the B.A.Sc. Program Committee.

Greenlees has also been a part-time student tour guide, a student member of the Canadian Institute of Food Science and Technology, captain of the FACS ice hockey team and a member of her class square dance team. Her summer employment has included service with the Canadian Cannery Ltd. Research Centre and the Ontario Ministry of Agriculture and Food.

References from Greenlees's teachers, colleagues and employers laud her as co-operative, hard working and possessing leadership potential. As a tour guide for campus visitors, she has been described as an excellent representative of the University. 0

## Convocation continues

Spring convocation ceremonies continue Thursday and Friday on the front campus.

At the June 5 morning ceremony, degrees will be granted to graduates of the honors and general bachelor of science programs. Dr. Chris Bigland, retired director of the Veterinary Infectious Disease Organization at Saskatoon, will receive an honorary doctor of science degree and address the graduates.

The afternoon ceremony is for graduates of the doctor of philosophy, doctor of veterinary science, master of arts, master of science, master of landscape architecture, graduate diploma and doctor of veterinary medicine programs. Dr. Philip Leder of Harvard Medical School, a noted molecular biologist and geneticist, will receive an honorary doctor of science degree and address the graduating class.

Retired faculty members Drs. Cliff Barker, Frank Milne and Jim Archibald, Clinical Studies, and Dr. Margaret Hardy Fallding, Biomedical Sciences, will each be made a professor emeritus.

Vice-President, Academic, Howard Clark, will address morning convocation June 6 in a ceremony for graduates of the bachelor of applied science and bachelor of commerce programs. At the afternoon ceremony for graduates of the bachelor of science in agriculture and bachelor of science (earth and food science) programs, Dr. Ernest Mann of Reading, England, director of the Commonwealth Bureau of Dairy Science and Technology, will receive an honorary doctor of laws degree and address convocation.

Retired professors Ernie Reinbergs, Crop Science, and Reg Shuel, Environmental Biology, will each be made a professor emeritus.

All morning ceremonies begin at 10 a.m.; afternoon ceremonies are at 2:30 p.m. If it is raining, events will be held in War Memorial Hall. A reception for graduates and their guests will be held in Creelman Hall after each ceremony. 0

## Vaughan medal presented

Kevin Cockell of Nepean is the second winner of the Walter N. Vaughan Medal. The award is presented annually to a student who makes outstanding contributions as a student member of Senate, while maintaining a high academic record.

The medal, which was presented at the Senate-Board of Governors dinner June 4, is in memory of the late Walter Vaughan, who served as Secretary of Senate.

Cockell, who earned a B.Sc. from Guelph in 1983, is enrolled in a PhD program and expects to complete his studies in early 1987. His thesis deals with the nutritional toxicology of the trout and is supervised by Prof. John Hilton,

Department of Nutritional Sciences.

Cockell has served as a senator for two years and has taken an active part in the student senator caucus and in the Graduate Students Association. He has been a member of a number of Senate committees, including the Research Board, the committee on liberal education and the search committee for the dean of Graduate Studies.

His academic awards include the prestigious Natural Sciences and Engineering Council Scholarship in both 1984/85 and 1985/86, the Ontario Graduate Fellowship and the University of Guelph Graduate Fellowship in 1983/84. 0



A workman prepares the ground for the installation of a parking information booth at the South Ring Road lot. A new visitor and parking information system is being installed on campus, with booths and pay-as-you-park cash lots at both the south and north ends of campus. These areas will be controlled from 8 a.m. to 5 p.m. Monday to Friday, except for holidays. Photo by Herb Rauscher, Illustration Services

# Welcome mat out for Alumni Weekend

Alumni Weekend, the welcome mat that Guelph rolls out each spring to its thousands of graduates, is June 20 to 22. Both the University of Guelph Alumni Association and the alumni associations of individual colleges have a variety of events and activities planned during the three days.

The weekend kicks off Friday with Monte Carlo Night, an evening of gambling, dancing and live entertainment. There will also be an auction sale and door prizes, including a trip for two to Las Vegas.

Monte Carlo Night gets under way at 8:30 p.m. in Creelman Hall. Tickets are \$10 per person, \$15 per couple, with all proceeds going to the Alumni House project.

Other general activities Friday include self-guided campus walking tours that depart from the foyer of Johnston Hall from 1 to 6 p.m., a fine art print show in Zavitz Hall from 2 to 7 p.m. and a hospitality suite for Alumni-in-Action in Room 104, Johnston Hall, from 3 to 8 p.m.

On Saturday, alumni can gather for breakfast at 8 a.m. in Creelman Hall and for a picnic lunch at 11:45 a.m. in Creelman Plaza. The annual alumni/student slo-pitch baseball tournament begins at 10 a.m. on the south ball diamonds. At 1:15 p.m., all alumni are invited to attend the annual meeting of the UGAA in Room 149, Macdonald Hall, where presentations of the 1985 Alumnus of Honor and the Alumni Medal of Achievement will be made.

Throughout the afternoon, wagon tours of the campus will run continuously from the front of Macdonald Hall, beginning at 2:30 p.m.

At 4 p.m., there will be an official unveiling of a bronze sculpture by Cynthia Short in the Donald Forster Sculpture Park at the Macdonald Stewart Art Centre. The sculpture was purchased with funds donated by alumni through the Alma Mater Fund, with the assistance of the Canada Council. Short is a Toronto sculptor who has taught at Guelph.

The annual alumni barbecue begins at 6 p.m. at the Alumni House site, and will be followed by a dance in Peter Clark Hall at 9:30 p.m. Music is by the Bruce McColl Quintet.

On Sunday, there is an alumni breakfast at 8:30 a.m. in Creelman Hall and a soup-and-sandwich lunch at noon in Creelman Plaza. At 1:30 p.m., Anya Laurence, Department of Music, and music student Andreas Thiel present a piano recital in Room 107, MacKinnon building.

The activities planned by individual college alumni associations during Alumni Weekend include an art show, annual meetings, picnics and dinners.

The **College of Arts Alumni Association** is holding a barbecue Friday at 6 p.m. in front of Zavitz Hall. The association's annual meeting is Saturday at 11 a.m. in Room 430, University Centre. And at 8 p.m., the association is sponsoring a western pub in Der Keller Dining Hall. Prof. David Farrell, Department of History, will begin the evening with an illustrated talk on "The Reel Cowboy," a history of American western films.

The **College of Biological Science Alumni**

**Association** will hold its second annual Wildlife Art Show and Sale to raise money for scholarship funds. Some 30 professional and newcomer wildlife artists will exhibit art in a wide range of media. The show runs Saturday and Sunday from 10 a.m. to 5 p.m. in Massey Hall.

For the weekend, the CBS association has reserved space for campers at Guelph Lake Conservation Area, with plans for a noon barbecue on Saturday and an evening campfire get-together. CBS is also sponsoring a guided nature walk through the Elora Gorge Conservation Area Saturday morning.

The **College of Social Science Alumni Association's** plans for Alumni Weekend begin Saturday with an annual meeting at 11 a.m. in the Fireside Lounge, Lennox-Addington Hall. At 12:30 p.m., CSS alumni and their families are invited to a bring-your-own picnic at the games field east of Alumni Stadium off East Ring Road. Activities planned for the afternoon include slo-pitch baseball, games and races, and there will be a prize for the CSS alumnus who travels the farthest distance.

After the picnic, the association is sponsoring a Trivial Foot Pursuit, which will take competitors around campus on a search for Guelph trivia. The race starts at 2:30 p.m., and a trophy will be awarded to the winning team. At 8 p.m., the association will hold a "meet and mingle" reception in the Whippetree Lounge.

Weekend activities of the **OAC Alumni Association** begin at 10 a.m. Saturday with an annual meeting in Room 149, Macdonald Hall. At 12:15 p.m., class reunion lunches are scheduled for OAC '31 in Room 441, UC, and OAC '36 in Creelman Plaza.

At 3 p.m., the association will hold an auc-

tion sale of OAC china and other alumni artifacts at the Alumni House site.

The annual Golden Anniversary Dinner, which honors OAC and Macdonald Institute alumni who graduated 50 or more years ago, begins at 6 p.m. in Creelman Hall. A number of individual OAC class dinners are scheduled for 6 p.m. as well: OAC '41 and '39A in Lennox-Addington Hall; OAC '51, Peter Clark Hall, UC; OAC '61, Room 103, UC; OAC '66, Arboretum Centre; and OAC '71, Whippetree Restaurant.

The annual meeting of the **Mac-FACS Alumni Association** is Saturday at 10 a.m. in Room 106, FACS building. An anniversary dinner of Mac '31 graduates is planned for 6 p.m. Friday at 21 Vardon Dr., and class reunion lunches will be held Saturday for Mac '36 in Lennox-Addington Hall, Mac '56D in the faculty lounge, FACS building, and FACS '76 in Room 103, UC. At 6 p.m., in addition to the Golden Anniversary Dinner, there will be class reunion dinners for Mac '41 in Lennox-Addington Hall, Mac '61 in Peter Clark Hall and FACS '81 in the Lambton Fireplace Lounge.

The **OVC Alumni Association** will hold its annual general meeting Saturday at 3 p.m. in the Macdonald Stewart Art Centre lecture room. At 6:30 p.m., there is a reception and dinner for OVC alumni in Room 442, UC, followed by an awards presentation ceremony.

The **School of Hotel and Food Administration's** annual meeting is Saturday at noon in Room 209, HAFA building. At 12:15 p.m., HAFA '76 graduates are invited to a picnic in Creelman Plaza in celebration of their 10th anniversary. 0



*The University art collection will receive a pencil drawing entitled "Rose" by Brian Lowry, Print Publication Services. "Rose" will be presented to the Macdonald Stewart Art Centre on Alumni Weekend by the class of Mac '40 to commemorate its 45th anniversary, which was celebrated last year.*

*Photo by Illustration Services*

## Biological scientists gathering here

Close to 1,000 scientists are expected to attend the 29th annual meeting of the Canadian Federation of Biological Societies June 16 to 20 on campus. Representing nine societies in the natural and physical sciences, medicine and biotechnology, the federation will offer a program of more than 30 symposia, 750 research papers and a dozen technical workshops.

Two public awareness sessions will focus on highly controversial areas in science — the need for animal use in research, and the ethics and morality of biotechnology. The animal use session is June 16 at 10 a.m., the biotechnology session June 17 at 8 p.m., both in Room 105, Physical Sciences building. A June 18 breakfast meeting will feature a discussion of bioethics from a religious perspective with Dr. Abbyann Lynch, director of the Westminster Institute for Ethics and Human Values in London, Ont.

The meeting will also include panel discussions on issues concerning women in science, such as the effect of maternity benefits on research careers for women. Career counseling sessions will be held for female students.

Each day, participants can choose from more than 100 papers, poster sessions and exhibits, as well as technical workshops and various society meetings.

Guelph faculty will be prominent both as presenters of research papers and organizers of symposia, which cover such topics as chemoprevention of mutation and cancer, the nutritional status of elderly Canadians, recent advances in biotechnology, and stress and the cardiovascular system.

Several member societies will sponsor spe-

cial lectures associated with distinguished awards. The federation's prestigious plenary lecture will be delivered June 16 by Dr. Hamish Munro, a U.S. nutritionist who is acting director of the human resource centre on aging at Tufts University.

A special feature of the meeting will be the presentation of an award donated by the Canadian Society for the Prevention of Cruelty to Animals to recognize high-quality scientific research that may diminish the use of animals in research.

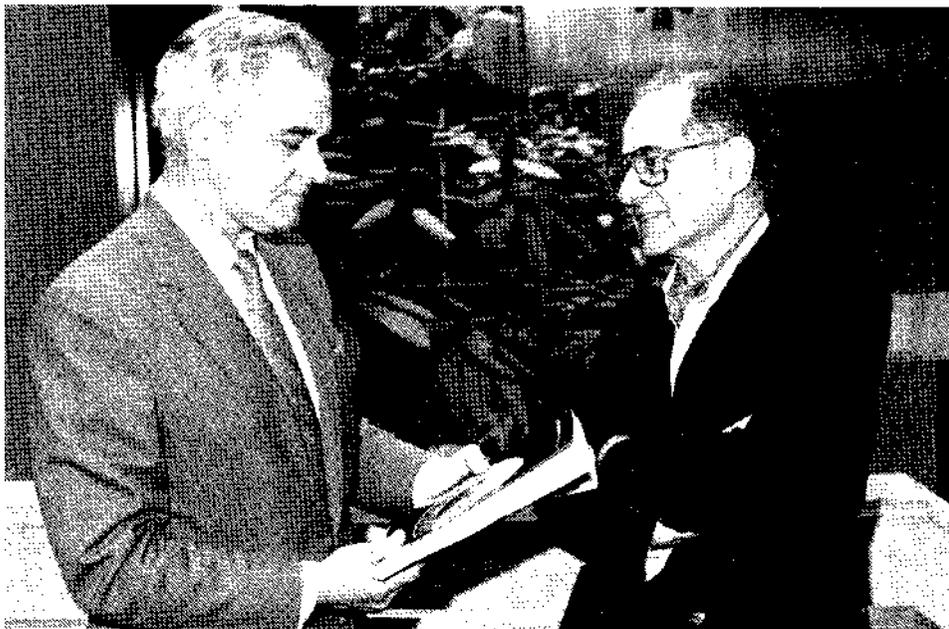
For more information on the meeting, contact the local organizing committee chairman, Prof. Hamish Rattray, Chemistry and Biochemistry, Ext. 3809. 0

## Aquaculture association meets on campus

The Aquaculture Association of Canada is holding its annual meeting on campus until June 7, in conjunction with the Ontario Trout Farmers Association. Delegates are examining the latest information on nutrition, health and marketing of fresh water fish.

A major symposium June 5 will focus attention on Canada's involvement in aquaculture programs in developing countries. Symposium speakers include federal government aid officers, university researchers and representatives of FAO and Cuso.

Toni Siddon, federal minister of fisheries and oceans, will address the annual banquet tonight at the Cutten Club. 0



*Dr. William Winegard, MP, left, receives a copy of Selected Bibliography of Contemporary Strategic Issues from Prof. Henry Wiseman, Political Studies. The bibliography, published by the Office for Educational Practice, was inspired by a course taught by Wiseman and Dr. Gunnar Boehner, History. It was compiled and edited by Guelph graduates Charles Marshall and Kathleen Scott. Advance orders for the bibliography have come from across Canada and the United States, as well as England, Belgium, Sweden, Norway, Hungary, New Zealand, Germany, Switzerland, Italy and Japan*

*Photo by Herb Rauscher, Illustration Services*

## Briefly

**THE SURPLUS SALES** Department has the following items available for departmental purchase only: one Epson LX 80 printer (Spectrum), s/n 030963 (SD#099); one Diablo printer and one Electrohome terminal (SD#088); one Multiwriter III and 10 ribbons (SD#092); one Multiwriter IV (SD#103); and one AES Plus Workstation, s/n 401232 (SD#577). For more information, contact the office at Ext. 8139.

**THE UNIVERSITY OF GUELPH** Summer Chorale, conducted by Gerald Neufeld, meets for rehearsals Wednesdays at 7 p.m. in Room 107, MacKinnon building. All singers are welcome. The group will hold its final concert July 16 at 8 p.m. The repertoire includes "Motets" by Pablo Casals, "Nanie" by Brahms and selections from "Porgy and Bess" by George Gershwin.

**THE NEXT MEETING** of Board of Governors is June 26 at 3 p.m. Any material intended for inclusion in the agenda should reach Dale Lockie, assistant University secretary, by June 13.

**A GARDEN SHOW** and plant sale will be held June 7 from 10 a.m. to 5 p.m. at 16 Young St. Tickets are \$5, with all proceeds going to Tools for Peace. Advance tickets are available at the Bookshelf Cafe, the Baker Street Bistro and Timer's Restaurant. Rain date is June 8. For more information, telephone Ext. 6034, 824-2091 or 822-3110.

**STUDENTS ARE NEEDED** to work as tour guides for New Student Dialogue June 22. If you are available from 9:15 to 11 a.m. and 2:15 to 4 p.m. on that day, please contact, in person, tour co-ordinator Leslea Dalrymple, Public Relations and Information, Level 4, University Centre.

**THE BRASS TAPS** is open throughout the summer. Hours of operation are noon to 1 a.m. Monday to Friday and 8 p.m. to 1 a.m. Saturday. The Brass Taps kitchen is also open during these hours, and a special sandwich bar is available from noon to 1 p.m. daily. On June 21, during Alumni Weekend, hours are noon to 1 a.m.

**THE UNIVERSITY OF GUELPH** Faculty Association/Club is holding a golf tournament June 26 at the Guelph Country Club, with tee off at 1 p.m. Cost is \$20 per person, which includes green fees and a dinner that begins at 6:30 p.m. Last day for sign-up at the Faculty Club or association office is June 14.

**THE GUELPH CREATIVE** Arts Association presents its 26th Painting on the Green outdoor art and craft show June 7 and 8 from 11 a.m. to 5 p.m. at the Delhi Street Recreation Centre. Guest exhibitors will include this year's winners of the Gordon Couling Scholarship in the Department of Fine Art, Linda Ruscio and Jaclyn Shoub. The exhibit entries of area arts and crafts will be juried for cash prizes, and there will be demonstrations, craft vendors and music. For more information, telephone 824-2690.

# Social networks

## An important influence on the quality and span of life

by Pamela Healey

Family and friends play an important role both in keeping people physically and mentally healthy and in helping them cope with illness when it does occur, says Psychology professor Benjamin Gottlieb. He is interested in the way professionals can encourage these social networks to contribute even more in helping people overcome life's problems.

Gottlieb says most troubled people first seek help by turning to their own social networks - their friends and relatives. Studies have shown that acute life stresses, such as the death of a loved one, job loss or divorce, and major turning points in people's lives, such as becoming a parent or retiring, are often followed by mental or physical illness. An accumulation of stresses seems to increase a person's vulnerability to disease. Interaction with friends and family, however, can help protect health and

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### Cheiron Society meets

The Cheiron Society, the International Society for the History of Behavioral and Social Sciences, will hold its 18th annual meeting on campus June 11 to 14. More than 80 scholars from the United States, Canada and Europe, as well as graduate students, are expected to attend.

The program will include more than 20 papers on the history of sociology, psychology, anthropology and psychiatry, two workshops and a special session devoted to the University's library resources in behavioral and social science history.

Discussion topics include "Social Science and the Child," "Gender and Professionalization in Psychology in the Late 19th Century," "Psychology of the Person," "Founders of U.S. Psychology" and "Love, Gender, Sex." Prof. Andrew Winston, Psychology, will present a paper on "'Cause' and 'Experiment' for the Introductory Psychology Student." All sessions are in Room 149, Macdonald Hall.

Cost of the conference is \$60 for society members and \$70 for non-members; the daily rate is \$32. For more information, contact the meeting's co-ordinators, Psychology professors Harry Hurwitz, Ext. 3976, and Ian Lubek, Ext. 3980. 0

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### Visiting Professor

Dr. Vijay Sen Budhraj, pro vice-chancellor of Kurukshetra University in the Haryana State of India, is a visiting professor in the Department of Political Studies until the end of June.

Budhraj has an MA in political science from Punjab University, Lahore (Pakistan), and a PhD from the American University, Washington, D.C. He has written extensively on Moscow's South Asia policy, Indian foreign policy and nuclear disarmament.

While at Guelph, Budhraj will give a series of lectures on the government and politics of India. He can be reached at Ext. 3535. 0

prevent the onset of depression or other illnesses.

The functions of the social network include informal diagnosis, referral, support and after-care, Gottlieb says. People use their networks as sounding boards to make sense of the way they feel and to obtain an informal diagnosis. Networks give them an idea of the seriousness of their problems and help them decide whether further help is needed. He says people are often unaware they have problems until friends and family let them know something is wrong by saying, "you're just not yourself."

### Can undermine professionals

In addition to identifying problems, social networks also refer the individual to various help sources, either professional or lay. Family and friends can support or undermine the help an individual receives from both types of helpers, says Gottlieb. Many people drop out of treatment early, he says, because their friends either don't agree with the treatment or they interpret the use of professional help as a rejection of their own support.

Social networks also have an important role in aftercare, helping people to resume functioning in society. For example, someone who has been disabled in a car accident needs a network willing to support and accommodate a new lifestyle that includes wheelchair use and long-term physical, and perhaps mental, therapy.

Social networks can critically influence an individual's efforts to cope with stress, Gottlieb says. He points to a number of studies carried out over the last decade that have shown that when people use their social networks in stressful circumstances, they suffer less stress than those who are socially isolated or fail to call on their network.

Epidemiological studies that have examined physical health status in relation to participation

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### Staff members running for BofG

Ten candidates are seeking election to the first-ever Board of Governors seat for a permanent full-time non-teaching staff member. The term is for three years beginning July 1.

The candidates are: Lorne Bruce, Library; Garry Davidson, Office of the Registrar; Mark Richard Evans, Land Resource Science; Dudley Gibbs, Music; Don Hamilton, Environmental Biology; Donald Hood, Computing Services; Richard Leavens, University School of Part-Time Studies and Continuing Education; John Liddle, Brass Taps Lounge; Thomas Smith, Communications Services; and John Van Esch, Food Science.

Ballots were mailed by the University Secretariat May 23 to some 1,800 eligible voters. The winner will be the person with the majority of votes. Ballots should be returned to the chief electoral officer, University Secretariat, by June 6. 0

in social networks and involvement in the community have found that people with more social contacts had death rates two to three times lower than those with few social contacts. Another study found that people who use their social networks remain mentally healthy despite such stressful situations as interpersonal violence, becoming a parent and getting a divorce.

### 'Misery loves miserable company'

Gottlieb says the self-help movement, now flourishing in North America, is a prime example of informal support. There are few afflictions that don't have a mutual aid self-help group formed around them, he says. Groups exist for both sufferers and their families — a good example is AA for alcoholics, Al-Anon for spouses and Alateen for children. Gottlieb says people need to affiliate with others in the same boat. It's not just that misery loves company, he says, but that "misery loves, and benefits from, miserable company."

Professionals now recognize the importance of informal social networks and use them to treat their own patients, says Gottlieb. A physician, for example, might organize a group of heart attack victims in the hospital so they can support each other long after professional contact ends. Gottlieb is interested in setting up similar interventions that help mobilize or augment support for individuals under stress. These keep people from depending on professionals and institutions, giving them a greater sense of control over their lives, he says. An example of this would be pairing teenage mothers with older women who act as models, mentors, helpers and confidants.

Gottlieb recognizes that there are also negative aspects to interactions among network members. Sometimes support fails to materialize, miscarries or even compounds problems. Cancer patients, for example, sometimes have difficulty obtaining support from close family members and friends who are threatened by the disease. And people who are severely disturbed, suicidal or depressed can scare off network members.

Gottlieb is now involved in a study of middle-aged and elderly people who care for older relatives. He wants to examine the sources of stress and satisfaction experienced by the family care-givers and the kinds of support they receive from their social networks. His project has been funded by the Social Sciences and Humanities Research Council, with assistance from the University's Gerontology Research Centre. 0

### Correction

In the May 29 edition of *at Guelph*, the "Briefly" item on the Society of International Development's free lecture on Guelph International Development Consultants should have read that the lecture is **June 4 at 7:30 p.m. at The Loft, 1 Carden St.**

## Next week at Guelph

**THURSDAY, June 5, 1986**

**Spring Convocation** - HONORS AND GENERAL B.Sc., 10 a.m.; PhD, D.V.Sc., MA, M.Sc., MLA, Graduate Diploma and DVM, 2:30 p.m., WMH.

**Guelph Environment Week** - LAND USE, displays downtown and a hiking tour of Guelph, 824-2091 for more information.

**Drama** - CRIMES OF THE HEART, the Shoestring Players, 8 p.m., Inner Stage, \$4, continues to June 8.

**FRIDAY, June 6, 1986**

**Schedule of Dates** - LAST DAY for submission of student petitions, second meeting.

**Spring Convocation** - B.A.Sc. and B. Comm., 10 a.m.; B.Sc.(Agr.) and B.Sc.(Earth & Food Science), 2:30 p.m., WMH.

**Guelph Environment Week** - ENERGY CONSERVATION, display, information, films, Eaton Centre; local high school bands, Memorial Gardens, 6 p.m. to midnight, 836-5261 for information.

**Cycling Club** - BARBECUE, contact David or Maggie for information, 837-1732.

**The Club's Summer Film Series** - MERRY CHRISTMAS, MR. LAWRENCE, 7:30 p.m., PS 113, members \$2, non-members \$3.

**SATURDAY, June 7, 1986**

**Arboretum** - SUMMER BIRD SURVEY, 7 a.m., Nature Centre.

**Guelph Environment Week** - CANOE TRIPS on the Speed River; STREET DANCE, St. George's Square, 8 p.m.

**Tools for Peace** - GARDEN SHOW AND PLANT SALE, 10 a.m. to 5 p.m., 16 Young St.

**Guelph Field Naturalists** - A WETLAND EVALUATION TRIP, 1:30 p.m., meet OVC parking lot, Bev Glover, 824-3858, for information.

**SUNDAY, June 8, 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** - ORIENTEERING RALLY, Rockwood, 25 miles, 10 a.m., UC south doors, \$2 entrance fee.

**Sunday Afternoon Walk** - BREEDING BIRDS, 2 p.m., Nature Centre.

**WEDNESDAY, June 11, 1986**

**Biochemistry/Biophysics Seminar** - ENIGMATIC PHASE BEHAVIOR OF DI-LTC, Michael Morrow, noon, PS 222.

**Cycling Club** - MARYHILL, 25 miles, novice ride, 5 p.m., UC south doors.

**THURSDAY, June 12, 1986**

**Guelph Field Naturalists** - ANNUAL PICNIC AND WALK, 6 p.m., 824-7206 for information.

The following abbreviations are used in "Next Week at Guelph": APS—Animal and Poultry Science; UC=University Centre; LA—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.

## Job opportunities

As of at Guelph deadline May 30, the following opportunities were available:

**Stenographer**, Department of Mathematics and Statistics; maternity leave from June 30 to Nov. 7, 1986. Hiring range: \$244.42 to \$265.59 per week.

*The following positions were available to on-campus employees only:*  
**Custodian 3**, Housekeeping Department; original vacancy; day shift;

Area 4. Job rate: \$9.27 per hour; probation rate \$.20 per hour lower than job rate.

**Clerk I**, Faculty of Graduate Studies. Salary range: \$236.66 minimum; \$274.53 job rate (level 5); \$340.23 maximum.

**Executive Secretary I**, University Secretariat. Salary range: \$306.03 minimum; \$353.19 job rate (level 5); \$438.56 maximum.

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

## Personals

**For Sale:** Custom-made double waterbed with headboard and pedestal base, Ext. 6579 or 856-9245, after 6 p.m. Large charcoal barbecue with spit; kitchen table and two chairs; Noma electric snow shovel, 821-1304, after 7 p.m. Vanilla ice cream, Friday afternoons from 2 to 3 p.m., all summer, Room 025, Food Science, \$12 per 10.2 litre box. S&S 34 sloop with racing/cruising sail inventory; Avon inflatable sport boat with Volvo 9.9 outboard, cover, trailer, Ext. 3797 or 824-8254, evenings. 1982 Ford Escort, Ext. 2051 or 837-2205, after 6 p.m. Jack Russel terrier puppies, racing talent assured; new 17-inch black eventing/all-purpose saddle, English import, Ext. 2624 or 824-1057. Detached bungalow, three bedrooms on main floor, two in finished basement, fenced lot, 836-4563. Fisher skis with Salomon bindings and Lang boots, almost new, 822-2511, after 5 p.m. 1975 GMC pick-up with cap, Ext. 3942 or 821-5067, after 5 p.m. 1979 AMC Pacer, 836-2065. 1984 Dodge Caravan, 822-8204.

**Wanted:** Furnished three-bedroom house for mature graduate student and family, mid-August or September, Dr. Ron Ball, Ext. 2209 or 823-5846. Men's right-handed and women's left-handed golf clubs, Ext. 3192 or 856-4902, evenings. Child's wooden wagon with sides, Ext. 3868 or 821-6182, evenings. Three-bedroom unfurnished townhouse, August or September to Feb. 28, 1987, Felni, Ext. 3660 or 3436. Used canoe, 822-5790, after 5 p.m. Dehumidifier, Ext. 3369 or 821-1736, after 5 p.m. Temporary residence for young working couple until September 1987, Brenda, 833-9503.

**Available:** Photography lessons, minimum of eight hours, Tom, 821-7923. Professional word processing, high quality, fast turnaround, 837-1410.

**For Rent:** Two-bedroom house in Florida, five miles from Gulf, 822-2511, after 5 p.m.



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