

Livestock research to boost international markets

A \$1.1-million research chair announced at Guelph last week will help Canada's beef and dairy industries maintain and enhance their positions in international markets, says President Burt Matthews.

One of the aims of the new Smiley-Reeds-McDonald chair in animal biotechnology, he says, is to develop techniques to ship frozen, sexed, genetically superior cattle embryos anywhere in the world at a cost comparable to the current price of semen. The research into this area is expected to produce results within five years.

Established for an initial five-year term, the chair will be held by Dr. Keith Betteridge (see accompanying story). It is supported by grants from the Natural Sciences and Engineering Research Council and Semex Canada, a consortium of Canadian artificial insemination centres that market frozen bull semen and cattle embryos in foreign countries.

Dr. Moe Freeman, general manager of Semex Canada, sees the co-operative research effort as a "living, viable project of the future." Canadian breeding stock in dairy and beef cattle has a good reputation, he says, but the industries are facing increasingly heavy competition as other countries set up breeding and sire-proving programs of their own — often modelled on Canadian

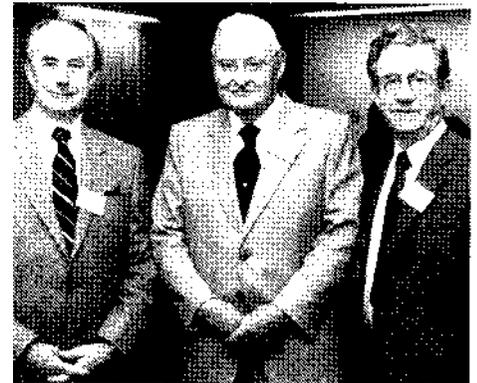
programs. Canadian breeders are anxious to provide competitively priced volumes of commercial embryos, and not just elite seed stock embryos, for foreign buyers, he says.

Semex Canada also sees the need for techniques such as genetic manipulation to improve productivity and feed efficiency, to permit beef to compete more cost-effectively with poultry and other protein sources.

The research chair will provide the central focus for work in animal reproduction within the Animal Biotechnology Centre at Guelph, which is made up of faculty from Guelph and the University of Waterloo who have expertise in immunology, cell biology, molecular biology, reproductive biology, reproductive physiology, embryo transfer, breeding and animal nutrition.

The chair is part of the Guelph-Waterloo Biotech Research Consortium, a joint undertaking by Guelph and Waterloo to encourage collaborative research among faculty at the two universities and also with industry.

Matthews hails the establishment of the chair as another important development in partnerships between government, industry and universities. The relationship will increase in the future, he says, resulting in greater progress than would be achieved by any of the partners in isolation. 0



Left to right: OVC alumnus Dr. Kussel McDonald, George Smiley and Clement R.

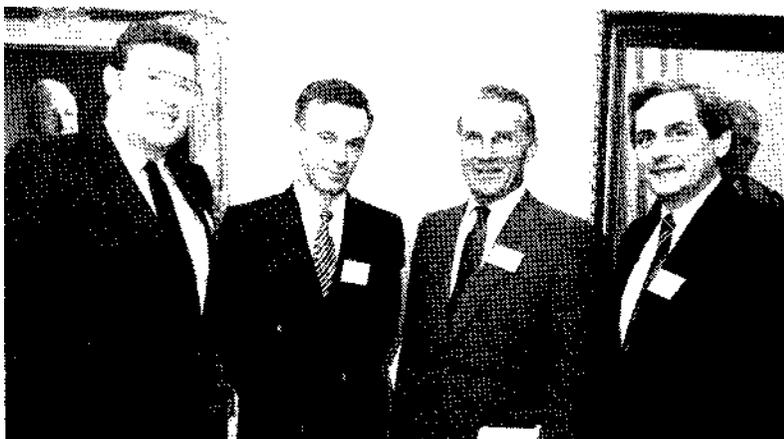
Betteridge appointed to chair honoring OVC alumni

Dr. Keith Betteridge of Montreal has been appointed to the Smiley-Reeds-McDonald chair in animal biotechnology at Guelph. He will take up the position in August and will be located in the Department of Biomedical Sciences.

Betteridge previously held a senior position in the animal reproduction research institute, faculty of veterinary medicine, University of Montreal. He has served on many international consultative bodies in the field of animal reproduction and was program chairman of the 11th annual meeting of the International Embryo Transfer Society held in Montreal in January 1985.

Betteridge has delivered more than 70 invited lectures throughout North America, Britain, Europe and South America. He has published 74 scientific papers, contributed to three textbooks and is currently completing a major textbook on embryo transplant.

A graduate of the University of Bristol, Betteridge has an M.V.Sc. from OVC (University of Toronto) and a PhD from the University of Reading. At Guelph, he will hold an appointment in the Department of Bio-



Left to right: Moe Freeman, general manager of Semex Canada, Keith Betteridge, President Burt Matthews and Claude Lajeunesse, director of targeted grants, NSERC.

Photos by Herb Rausehee Illustration Services

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RIGHT RELATIONS

University ethics committee recommended

by Ian Sloan

An ethics committee should be established on campus, says the University's *ad hoc* committee on ethical behavior in a report released last week by President Burt Matthews.

The *ad hoc* committee, which was appointed by Matthews last May, seeks comments from the University community on the report before it prepares a final submission to the president. Comments should go in writing to committee chairman Prof. Lou Abbott, History, before April 30.

The report proposes a University ethics committee to advise on and conciliate in conflicts involving faculty, staff and students. It also proposes that if members of the University community are unable to resolve conflict through conciliation, the new committee would mediate differences with formal hearings.

Abbott says the new committee should be both ombudsman and place of last resort, exploring concerns and adjudicating where necessary.

The report recommends that the committee consist of seven members: a chairperson chosen from the University at large; two members of faculty from different degree

programs; two staff members, one union, one non-union; and two students, one undergraduate and one graduate. Members must be selected carefully, says Abbott, because the success of the committee "depends upon the confidence of the University community."

The report also suggests that an expert in conciliation from outside the University be asked to sit on the committee. But members of the *ad hoc* committee were divided on this idea, says Abbott, so they have made no recommendation.

Many conflicts on campus can now be handled through established grievance procedures set out between the unions, professional staff and faculty associations and the University, the report says. The committee had no intention of duplicating or encroaching on these procedures, says Abbott, but it wasn't satisfied that existing procedures provide for individual integrity to the extent that the University should. The committee was guided in reaching this conclusion by the University's aims document, *Towards 2000: Challenges and Responses. Aims of the University of Guelph*.

The committee contends that three new kinds of cases are to be anticipated at the University relating to the standards of moral development *Towards 2000* calls for. Cases where someone who complains to the University on ethical grounds has no satisfactory recourse to justice because no policy or procedure is available; cases where someone is unable to find "effective relief" through available policies or procedures; and cases where someone is unable to find relief through available policies or procedures because of limits on, or aberrations in, current social perspectives.

The committee was especially concerned that students, most vulnerable among University members to breaches of ethical standards by others in the University, have the least satisfactory means of redress.

Recourse to a chairman or a dean is theoretically available to students, says an appendix to the report. But many students "are apparently reluctant to take such action for fear of negative consequences." Abbott says administrative pressures seem to make it difficult for department heads to deal with ethical issues in a sensitive, balanced way. 0

Aims document said guiding light of committee

The *ad hoc* committee on ethical behavior drew on principles in *Towards 2000: Challenges and Responses. Aims of the University of Guelph* in preparing its report, says Prof. Lou Abbott, History, head of the committee. Particular attention was paid to Aim 10: "We will continue to foster a collegial environment, and be sensitive to the well-being and integrity of our students, faculty and staff."

The committee took a "highly idealistic" approach to the problem of regulating human relations on campus, says Abbott. Rather than looking negatively at high-profile areas of concern, such as sexual harassment, the committee took a positive approach, assuming "an ideal world in which people should be behaving."

Abbott says the report has received criticism for the "pretty nebulous" first section, which he calls an "abstract statement of principle." In it, the committee says the University "must attend to the ethical dimension as integral to everything it does." It defines three principles for conduct on campus—justice, freedom of expression and service—which together support the dignity, worth and autonomy of individuals, the primacy of rational inquiry and the ultimacy of the good of humankind.

But the crux of the report, says Abbott, is its middle section, where the committee provides "a tentative set of contexts in which behavior is affected by ethics." He hopes the

list is comprehensive, covering all situations on campus. "One of the rationales for our work was the president's concern that the University's approach to ethical problems was fragmentary." Matthews struck the committee to examine existing policy and develop University-wide guidelines.

The committee named the ethics of decision making, change, teaching and learning, interpersonal behavior, supervision and resource use as areas of University concern. In the event of conflict in any of these areas, the committee assumes that complainants would use procedures already in place, but would consult a "University ethics committee" if a result satisfactory to all parties was not reached.

Reservations

Prof. Keith Cassidy, History, expresses reservations in principle about the idea of an ethics committee. He fears an adverse impact on academic freedom and on the full range of ideas and beliefs at the University. "There is a fine line between regulating ethics and attempting to stifle ideas with which we disagree," he says. He wants the University to explore the implications of the report thoroughly and suggests the president's deadline for responses is too soon for most people to respond adequately. "It's been released at the worst time of the year," he says.

Liz Kwan, vice-president external of the Central Student Association, praises the committee for its intentions, but thinks the report is "theoretical in nature ... not very practical." She wants to see how the committee will be structured, whether its neutrality will be safeguarded, whether or not it will have any power. "The onus is on this committee to make things work on campus," she says. If it does, the campus will be a more trusting place, she says.

Prof. Susan McIver, chair of the Department of Environmental Biology and head of the president's advisory committee on equal opportunity, endorses the *ad hoc* committee's report. 0

Betteridge *Continued from page 1.*

medical Sciences and will interact with colleagues in a number of disciplines.

The Smiley-Reeds-McDonald chair is named in honor of three Guelph alumni and pioneers in the development of the artificial insemination industry in Canada and North America—Dr. George Smiley, OVC '47, Dr. Clement Reeds, OVC '42, and Dr. Russel McDonald, OVC '45.

Smiley is the retired general manager of Eastern Breeders Inc. at Kemptville; Reeds recently retired as general manager of United Breeders Inc. at Guelph, and McDonald is the general manager of Western Ontario Breeders at Woodstock. 0

Everyone benefits from fellowship program

Universities in Canada, as in many other industrialized countries, now have a large number of middle-aged professors. When they begin to retire, a shortage of Canadian PhDs will occur, peaking in the 1990s. It is this situation that led the Natural Sciences and Engineering Research Council to create its far-sighted University Research Fellowship Program.

The program, initiated in 1980, is aimed at keeping outstanding young PhDs in the University system. Under the program, universities nominate recent PhDs for an NSERC fellowship, which gives them a five-year appointment as a faculty member with reduced teaching responsibilities. This gives the graduates an opportunity to focus their energies on establishing research programs.

It is NSERC's hope that many of the fellowship recipients will move into tenure-track positions. If they do, the University receives funding support on a declining basis for another five-year term.

Guelph has had 16 NSERC fellows in OAC, OVC and the colleges of Physical and Biological Science. The most recent is John Greenwood, Botany, a 1986/87 fellowship recipient. Of the 16 fellows, four now hold tenure-track positions — Jim Davis, Physics; Jane Robb, Molecular Biology and Genetics; and Frances Sharon and Richard Oakley,

Chemistry and Biochemistry. Another nine continue to teach and do research at the University — James Ballantyne and Mike Baker, Zoology; Mike Dixon and Barry Sheip, Horticulture; Bob Brooks and Alan Soper, Physics; Peter Pails and Tice Tollenaar, Crop Science; and Ann Gibbins, Biomedical Sciences. Two NSERC fellows have since left the University.

Other agencies, such as the Medical Research Council and the Canadian Heart Foundation have fellowship programs similar to NSERC's on a smaller scale, but most are medically oriented and only one such fellowship is held on campus, says Wayne Marsh, Office of Research. Vhundi Mahadevappa, Nutritional Sciences, received a heart foundation fellowship last year.

The Social Sciences and Humanities Research Council has proposed a similar program for PhDs in other disciplines, but this has yet to be approved.

The response of those involved in the program at Guelph has been overwhelmingly positive, says Marsh. Departments benefit from contributions in the form of teaching, research and committee work, the fellowship recipient has an opportunity to establish a research program and gain teaching experience, and the University receives financial support. 0

Spring course explores family law

The new Ontario Family Law Act has changed the economic reality of marriage, says lawyer Inga Rinne, a lecturer in family law at Guelph. The new act, which became law March 1, requires marriage partners to split evenly all assets they acquire in marriage. The changes mean that disadvantaged partners, historically women, have new legal rights to their spouses' personal property in the event of marriage breakdown or of death.

The Family Law Act is one of several new initiatives in Ontario family law that Rinne examines in a six-week evening credit course on campus this spring. Another is the Children and Family Services Act, formerly the Child Welfare Act, which spells out new rights for children with respect to social agencies.

In the course, Rinne's aim is to help people become informed critics of existing laws. She gives students examples drawn from child welfare experience to illustrate the effect of the law on social agency policy and practice. And she uses her experience in marriage law to look closely at property rights in separation and divorce.

"Family Law" begins May 5. For more information, contact Part-Time and General Studies, Room 153, Johnston Hall, Ext. 3464.

Positive self-image more likely if you have healthy perception of family life: FACS study

by Pamela Healey

Individual perceptions of reality are an important factor in developing a positive self-image and good mental health, says Prof. Marshall Fine of the Child and Family Services and Research Unit in the College of Family and Consumer Studies. He is studying the relationship between perception of the emotional health of the family of origin and individual emotional health with respect to levels of anxiety.

Fine says there isn't much empirical evidence on how the family of origin — the family we are born into or spend our childhood with — affects our personal perceptions. His study tested the theory of U.S. family therapist Murray Bowen that chronic anxiety in the family of origin may be responsible for the inability of offspring to effectively distinguish emotions from intellect. These individuals are influenced more by the thoughts and feelings of others than by their own, according to Bowen's theory. Fine set out to discover if people who see their background as emotionally healthy also see themselves as relatively anxiety-free.

Fine surveyed 349 second-year FACS students using two measures — the Family of Origin Scale, which he helped develop, and the State-Trait Anxiety Inventory.

In the Family of Origin Scale, perceived levels of independence and intimacy in the



family of origin are measured and levels of perceived health inferred. Such statements as "The atmosphere in my family was cold and negative," or "I remember my family as being warm and responsive" require positive or negative replies from the subject. The State-Trait Anxiety Inventory measures individual perceptions of anxiety levels. "State" anxiety is short term or situationally based and can be affected by specific experiences. "Trait" anxiety, on the other hand, is long term and usually more a characteristic

of the person, Fine says. A sample phrase from the "state" portion of the inventory is: "I feel tense" (right now); a statement from the trait portion is "I lack self confidence" (often). Subjects either agree or disagree with such statements in a continuum.

Fine found a relationship between the amount of health perceived in the family and the amount of anxiety experienced by the subject. The healthier the perception of the family, he says, the less anxiety the person appeared to feel.

Fine says perception "is the important thing, as everyone's reality is different." Even among siblings there won't be total agreement about the emotional health of the family of origin, he says. The Guelph researcher plans to do a more objective study in the future, involving evaluation of the family of origin by outsiders. Their perceptions of family health will be compared to those of the parents and siblings. Fine is uncertain about what findings will result because the perception of reality is so dependent on the individual.

The purpose of the anxiety study was to examine a theoretical point rather than a clinical issue. But Fine has used his Family of Origin scale for more applied research — in the area of marriage, for example. Perception of poor emotional health in the family of origin may be a deterrent to a well-functioning marital relationship, he says. Fine's work is funded by the Research Advisory Board. 0

DDE clears paperwork for Financial Services Guelph #1 on MRC award list

A new computing system developed by Financial Services has reduced the paperwork involved in financial transactions on campus.

Doug Badger, manager of Financial Services's computer systems, says "Distributed Data Entry" does away with manual preparation of input forms by allowing users to originate and approve transactions on-line.

DDE, part of the department's long-term strategy to improve the accuracy and timeliness of data on the major financial database, wasn't intended to be a data collection facility for all campus financial transactions, as it is now, says Badger. But when Computing Services's data entry department closed last December, Financial Services had to find the quickest and most efficient method of converting all campus financial data into machine-readable form. DDE, using the department's H-P3000 mini-computer, was the solution.

Financial Services received "fantastic support" from staff throughout the University during the changeover, Badger says. The department processes some 3,000 transactions a day — more than 700,000 a year — and the University has now reached the point where only 30 per cent of those transactions are entered in the traditional "keypunch" manner.

Many areas on campus have not actually seen DDE, says Badger, because the bulk of the University's financial transactions are entered by 10 per cent of the departments — departments such as Personnel, the Library and Central Duplicating. For cost-benefit

reasons, he doesn't think the number of users will increase significantly in the near future.

Although many departments aren't directly involved with the system, they will soon see applications of the DDE concept in other programs Financial Services is developing, he says. For example, the new payroll/personnel system, "Employee System," will use a paperless approval process similar to DDE's.

Badger says improvements can also be expected in the budgeting process. Managers will be able to make proposals and ask for analysis on-line, and Financial Services will be able to provide data specifically related to individual departmental concerns. At present, managers have to wade through volumes of paper produced by Financial Services to find information relevant to their responsibilities, he says.

Dr. Don McIntosh, Office for Educational Practice, one of the first users of the new system, says it has great potential for managers because Financial Services can now turn around information for departments faster than was previously possible. The system takes some of the guesswork out of managing, he says. He adds, however, that the new developments in financial applications will require time and money at the departmental level for departments to take full advantage of the system's potential.

Guelph's DDE innovations have attracted international attention, says Badger. He has been invited to deliver a paper outlining the system's paperless approval process to the College and University Machine Records Conference in South Carolina later this spring.

Guelph received the highest level of awards given by the Medical Research Council in 1985/86 to Canadian universities without a faculty of medicine. The MRC made 26 awards to Guelph, with a total value of \$725,282.

Twelve of the awards — valued at \$414,556 — were for research, and 14 — valued at \$310,726 — were for fellowships and studentships.

Of the 12 research grants, one was a general grant of \$10,000 to (JVC) to be awarded at the discretion of the dean, four were new grants for faculty research and seven were continuing grants. The new grants went to Dean Bruce Sells, College of Biological Science, for research on the "Molecular Biology of the Translational System," Prof. Joseph Lam, Microbiology, for his work on "Monoclonal Antibodies for Serotyping and Vaccine Development Against Pseudomonas Aeruginosa," Prof. Alan Wildeman, Molecular Biology and Genetics, for the "Regulation of Gene Expression by Mammalian Tumor Virus Gene Products," and Prof. Peter Eyre, Biomedical Sciences, for the "Effects of Respiratory Viruses on Macrophage, Neutrophil and Basophil Homeostasis — Implications for Hyperreactivity and Secondary Bacterial Infection."

Continuing grants went to Sells; Prof. Terry Beveridge, Microbiology; Alan Mellors, Chemistry and Biochemistry; Stan Blecher, Human Biology; Bruce Holub, Nutrition; Tom Hulland, Pathology; and Ross Nazar, Molecular Biology and Genetics.

The MRC is the federal government's main agency for the support of biomedical research in Canada. The council provides direct support for research in the health sciences and salary support for investigators. 0



Guides show kindergarten students from St. Bernadette school, Guelph, how sap runs from maple trees during a recent visit to the Arboretum. According to those in the know, the frogs are now croaking, which means the sap run is just about over and there will be no more snow.

Photo by John Hearn, Public Relations and ha

The big switch

Work on installation of the ROLM Communication System is proceeding on schedule towards the cut-over date of April 25, says Carl Gorman, director of Communications Services. The design and training sessions have been completed and most of the telephone units have been installed.

Once dial tone is supplied to the new ROLM phones, they can be used to experiment and practise. But until April 25, they cannot be used to call off-campus, to the OVC system, or to existing Bell Canada lines.

System design co-ordinators have been given a list of the extensions that have been assigned to their organizational unit. A campus-wide directory of the new numbers will be available by late April.

Help and advice on the new system is available by calling HELP (Ext. 4357) on a ROLM phone, or from assigned design co-ordinators in individual departments. 0

Conservation strategy recommended for Ontario

Ontario needs to come up with a new conservation strategy rooted in sustainable development, says the Conservation Council of Ontario in a report released this week.

Towards a Conservation Strategy for Ontario, which was commissioned by the ministries of agriculture and food, energy, natural resources and environment and the former secretariat for resources development, uses the World Conservation Strategy Project as a yardstick to assess conservation and development in Ontario.

The 165-page document should not be considered a report card on the government's conservation efforts in the province, says Prof. Stephen Rodd, a contributor to the report. Rodd, who holds a joint appointment in the University School of Rural Planning and Development and the Department of Agricultural Economics and Business, says the report sets out conservation goals, identifies concerns, describes progress already achieved and outlines directions for improvement.

Rodd was chairman of the task force on waste management, one of six contributing to the report. Former Guelph alderman Margaret MacKinnon was also a member of Rodd's group. The other task forces considered agriculture, forestry, land use conflicts, water resources management, and wildlife and natural areas. Other Guelph people involved in the report include Charles Murphy, a planning student in USRP&D who worked as a research assistant, Helen Break, a recent master's graduate in rural development who was a volunteer member of the agriculture task force, and Ken MacKay, Institutional Analysis and Planning, who was also a task force member.

The World Conservation Strategy, developed in 1980 by the International Union for the Conservation of Nature and Natural Resources after three years of consultation around the world, owes much to the initiative of Canadian Maurice Strong, former executive director of the UN Environment Program. UNEP commissioned the strategy, which also received support from the World Wildlife Fund, the Food and Agriculture Organization and the UN Educational, Scientific and Cultural Organization.

The World Conservation Strategy identified three objectives of resource conservation — the protection of essential ecological processes such as soil regeneration and clean water, the preservation of genetic diversity in plants, animals and micro-organisms, and the maintenance of sustainable resources such as fish and wildlife, forests and grazing land.

The conservation council report examines provincial policies in light of these objectives, giving an overview on current conservation policy. The council hopes the province will undertake a second phase of the project to

come up with suggestions for specific policy changes.

A growing awareness of pressures on the environment has made the public more supportive of policies that may appear expensive in the short term but will have long-term benefits, the report says.

Immediate clean-up of past mistakes is not enough — it is necessary to shift to a policy of anticipation and prevention in policy making, paying more attention to long-term strategic planning, monitoring and promotion of different technologies for production, says the report. Many of the report's recommendations suggest changes in the ways policies are designed and implemented.

The report also points to the need to make social and environmental costs a part of production processes, consumption patterns and lifestyles. Government and industry policy thrusts should shift "off toxics," it says. This shift is already evident in the interest in biological pest controls and energy production from waste. The report also suggests a move from large centralized systems for essential services such as hydro to smaller systems less vulnerable to breakdown and sabotage.

The conservation council, an umbrella organization for 32 provincial organizations concerned with the quality of the environment, says there is a need for a vision of the future. All of Ontario's resources — human, financial, natural and technical — will be needed to develop sustainable programs, it says.

Copies of *Towards a Conservation Strategy for Ontario* are available from the Conservation Council of Ontario, 74 Victoria St., Suite 202, Toronto M5C 2A5. Cost is \$10. 0

Sigma XI seminar celebrates centennial

The Guelph chapter of Sigma XI, the Scientific Research Society, will celebrate its centennial April 25 on campus with day-long discussions of key discoveries in science over the past 100 years and co-operative efforts in research today.

The theme of the morning session, which begins at 9:15 a.m. in Room 103 of the University Centre, is "The Past is a Key to the Present." Dean Bruce Sells, CBS, will discuss discoveries in the field of bioscience; Prof. Peter Egelstaff, physics; Vice-President, Academic, Howard Clark, chemistry; and Prof. Ward Chesworth, earth science.

Frank Oberle, minister of state for science and technology, will speak on research funding at a luncheon at 12:45 p.m. in Room 442, University Centre.

At the afternoon session, which begins at 2:30 p.m. in Room 103, the theme is "Co-operation in Research: Key to the Future." Speakers are Dean of Research Larry Milligan, who will discuss the Guelph/Waterloo Biotechnology Institute; Prof. Bob Balahura, director of the Guelph/Waterloo Centre for Chemistry; Prof. Iain Campbell, director of the Guelph/Waterloo Program for Physics; and Dr. Ernie Holmes, dean of research at the University of Waterloo, who will speak on "University/Industry Co-operation."

The morning and afternoon sessions are open to anyone, at no charge. 0

Visiting Professors

Dr. Luis A Mejia of the Centro de Investigacion en Alimentos y Desarrollo, Mexico, will be a visiting professor in the Department of Nutritional Sciences from April 21 to 25. On April 23, he will present a seminar on "The Hematological Effect of Supplementing Vitamin A and Iron to Anemic Children" at 4:10 p.m. in Room 306, Animal Science and Nutrition building. Mejia will be available for consultations at Ext. 3750. 0

Conference to focus on role of science, technology in world food crisis

A major international conference on the role of science and technology in the world food crisis will be held on campus Oct. 23 to 26. In the planning for two years, the conference will provide a forum for discussion on the impact of science and technology.

This is the second such international event at the University. The first, in October 1983, addressed strategies for peace and security in a nuclear age. Prime Minister Pierre Trudeau and prominent Russians and Canadians took part.

This year's conference will examine issues related to the concurrent growth of science and technology and world hunger. Conference organizers ask the question, "If science

and technology are vehicles for enhancing the quality of life, why do they appear to fail us in resolving this critical global dilemma?"

Distinguished speakers from several countries and cultures will participate in the event. Keynote addresses, panel discussions and workshops will address the dimensions of the world food crisis, the carrying capacity of the planet, the impact of science and technology, the politics of food and options for the future. The proceedings of the conference will be published.

The planning committee for the event, which is chaired by Prof. Jim Murray, Continuing Education, includes representatives of faculty, industry, students, and international and development education. 0

Briefly

THE GUELPH YM-YWCA, 400 Speedvale Ave. E., will hold a used book sale May 3 from 1 to 4 p.m. For more information, telephone 824-5150.

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

HIGH SCHOOL STUDENTS from Guelph, Oakville, Burlington and Stoney Creek shared the prizes in Echanges, a public-speaking contest in French sponsored by the French studies section of the Department of Languages and Literatures. More than 75 students in Grades II, 12 and 13 participated in the final competition held on campus earlier this month.

THE DEPARTMENT of Food Science has strawberry, vanilla, chocolate and chocolate ripple ice cream for sale April 18 from 1:30 to 2:30 p.m. in Room 025, Food Science building. Cost is \$12 for 10 litres.

THE UNITED NATIONS Association of Canada is organizing a national essay and poster competition to mark the International Year of Peace — 1986. Interested applicants can get details of the competition from the Development Education Program, Ext. 3778. Deadline for submissions is May 15.

FACULTY AND STAFF who pay parking fees through the payroll deduction plan will automatically have their 1986/87 parking permits delivered to their department, beginning the week of April 21. Anyone not on the payroll plan can buy a permit any time after April 21 at the Parking Administration Office, Room 107, Day Hall. Cost is \$42 per year, or \$14 per semester. For more information, contact the office at Ext. 2118.

THE FIRST NMR minisymposium organized by Prof. Ed Janzen, Chemistry and Biochemistry, was held on campus last month. Eleven speakers from Ontario universities and industrial laboratories made presentations. Guelph speakers included Profs. Colin Fyfe and Ken Jeffrey, graduate student Carl Decicco and post-doctoral fellow Mark Hampden-Smith. Much of the work discussed at the symposium was based on spectra obtained at the Southwest Ontario High Field NMR facility sponsored by (GWC)2 and located in the Department of Chemistry and Biochemistry.

HEART SAVE WELLINGTON is sponsoring Save-A-Life Day April 19 from 9 a.m. to 12:30 p.m. at the Royal Canadian Legion on York Road. The session will show how to prevent, recognize and manage a heart attack, how to perform cardiopulmonary resuscitation and how to save a choking victim. Registration begins at 8:30 a.m.: cost is \$5 or a donation. For more information, contact Janice Sweazey, 822-4420, Ext. 297.

A **LABOR-MANAGEMENT SEMINAR** on "Free Trade: A National and Local Perspective" will be held at the Royal Canadian Legion May 6. Keynote speaker is Donald Macdonald, chairman of the Royal Commission on Economic Union and Development for Canada. Guest speakers are Gerard Docquier, national director of the United Steelworkers, and Patrick Lavelle, deputy minister of industry, trade and technology. Cost is \$40, \$20 for students, and registration deadline is May 2. For more information, contact the Guelph Chamber of Commerce at 822-8081.

A **RECITAL** by clarinetist Kaye Powell Royer, with Terence Ball on viola and Douglas Scott on piano, will be held April 17 at 12:10 p.m. in Room 107, MacKinnon building. The program, "A Survey of German Clarinet Music," features "Darmstadt Concerto No. 2 in B flat, Allegro" by Karl Stamitz; "Trio in Eb, K. 498" by Mozart; "Grand Duo Concertante" by Carl Maria von Weber; and "Sonatina Giocosa" by Friedrich Zehm.

THE SURPLUS SALES Department has the following items available for departmental purchase: 1 Tritium Oxidizer (SD#615); 1 Cybernex APL-100 terminal (SD#017); 1 Corona PC, 512 K, 2 disk drives, amber desktop, s/n BDA 1631 (SD#051); 3 Motorola Metrx Pagers (SD#060); 1 Zenith Monitor, mod. ZVM 121 and 1 Tandon Hard Disk, mod TM 5102 (SD#065); 1 Diablo Multiwriter, #56193, 7 Xerox Printwheels (2 USA Titan 10, 2 USA Elite 12, 1 USA Cubic PS96 & 1 Scientific 10), 1 Hytype MS Black Ribbon, Diablo (SD#070); 3 DEC MS-630-BB, 4Mbyte memory cards for Microvax 2, 2 DEC MS-630-AA, 1 Mbyte memory card for Microvax 2, 1 DEC BA I 1-KA Unibus expansion box, 1 DEC 11/23+ CPU card, KDF 11-BA, 1 DEC MSV I I-PK, 256Kbyte Q22 Block Mode memory card, 1 DEC MSV I -PL, 512Kbyte Q22 Block Mode memory card, 1 DEC DZV 11 4 serial line mux. for Q22, 2 DEC RK07 disks with Unibus controller & 8 cartridge packs (SD#078); 30 8304 CRT/Keyboard Terminals (SD#081).

These items are open for public purchase: Bicycles (SD#595); 7 Drafting Tables (SD#625); 4 Underwood Typewriters (SD#034); 2 IBM Selectric I Typewriters, 3 Superbrain Computers (SD#046).

Appointments

Prof. Gordon Macleod, acting chairman, Department of Animal and Poultry Science, will be chairman of the department for a one-year term that begins July 1.

Kiyoko Miyanishi of the Fire Science Centre, University of New Brunswick, will join the Department of Geography as assistant professor Aug. 1 in an established position.

Ray Kostaschuk of the University of British Columbia will join the Department of Geography Aug. 31 in an established position.

John Thompson, chairman of the department of biology, University of Waterloo, will begin a three-year term July 1 as adjunct professor in the Department of Horticultural Science.

Donald Pettit, director of the National Capital Commission, Nepean, will begin a three-year term May 1 as adjunct professor in the School of Landscape Architecture.

Steven Cronshaw, University of Waterloo, will join the Department of Psychology Aug. 1 as assistant professor, filling a position vacated by a retirement.

Jeffrey Mitscherling, McGill University, will join the Department of Philosophy July 1 as assistant professor, filling an already established position.

Scott McEwen, a sessional lecturer in the Department of Veterinary Microbiology and Immunology, will join VM1 as assistant professor May 1 in an established position. 0

Foreign student policy hinders special responsibility, says Guelph delegation

International involvement in human resource development is an area of special responsibility at Guelph, a delegation representing the University told a hearing of Parliament's Special Joint Committee on International Relations in London last week. But incoherent and inconsistent foreign policy in the area of international students has drastically affected Guelph's ability to fulfil its mandate, the delegation said.

Prof. Archie MacKinnon, director of the Centre for International Programs, and one of the three Guelph delegates who presented a brief to the hearing, says the joint committee seemed to accept Guelph's point of view. He says committee members went beyond asking Guelph to make the case for human resource development as a tool of foreign policy to ask for advice on how to make international human resource development a practical part of Canadian foreign policy. "It was a very intense hour working these things out," he says, because committee members seemed "genuinely there to inquire."

Other members of the Guelph delegation were Provost Paul Gilmor, who headed the delegation, and International Student Adviser Don Amichand. 0

Tribute to Nicky

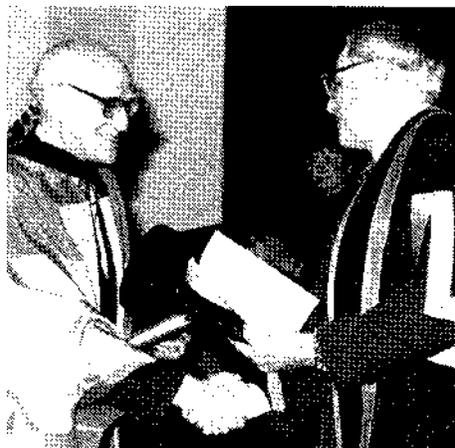
Nicholas Goldschmidt, artistic director of the Guelph Spring Festival since it began in 1968, will step down from his position June 1, 1987.

Goldschmidt, who began the festival with a budget of less than \$40,000, has seen it grow into a major cultural event, with a budget of almost 5400,000. The festival marks its 20th anniversary in 1987, and Goldschmidt says the jubilee celebration will be a time "to look to the future with fresh eyes and new initiatives, an appropriate time for me to step aside to devote myself to other activities and for the festival to build on the momentum of a very special year."

Born and educated in Europe, Goldschmidt moved in 1937 to the United States, where he served as director of the orchestra and opera department at the San Francisco Conservatory of Music, director of opera at Stanford University and director of the opera department at Columbia University. In 1946 he came to Canada as the first director of the opera school of the Royal Conservatory of Music in Toronto and the first music director of the Canadian Opera Company.

He has served as director of music for the University of British Columbia Summer School of the Arts, artistic and managing director of the Vancouver International Festival and chief of the performing arts division of the Centennial Commission of Canada.

In 1967, Goldschmidt was named artistic director of the Edward Johnson Music Foundation, and was joint convener of the National Conference on the Role of Universities with then dean of arts, Murdo MacKinnon. The following year, Goldschmidt was invited to become the



Nicks' Goldschmidt, left, received an honorary degree from Guelph in 1984. Here, he receives congratulations from Chancellor Bill Stewart.

University's first director of music. He retained responsibility for music on campus until his retirement in 1974.

During his years at Guelph, he strengthened the long-established students' glee club by bringing in faculty and staff, and created the world-renowned University of Guelph Choir. Ten years after his retirement, Goldschmidt was awarded an honorary doctorate of music by the University.

Goldschmidt is also artistic director of the Algoma Fall Festival and was executive director of the 1985 International Bach Piano Competition. He has been honored by universities and music groups across the country and received the Order of Canada in 1977.

For 40 years, says MacKinnon, "Nicky has challenged Canadians with his enthusiasm, energy and creativity. His leadership is like a fire on the top of a mountain." 0

Graduate news

The following final oral examinations are scheduled:

Richard Shingles, Horticultural Science, a candidate for the doctor of philosophy degree, April 17 at 9 a.m. in Room 118, Horticultural Science building. The thesis is: "Serine Synthesis in Pea Leaves During Photorespiration." His supervisor is Prof. Bernie Grodzinski.

Bruce Morito, Philosophy, a candidate for the doctor of philosophy degree, April 21 at 2 p.m. in Room 132, MacKinnon building. The thesis is: "Freedom and Integrity." His supervisor is Prof. John Leslie.

Robert Robson, History, a candidate for the doctor of philosophy degree. April 24 at 10 a.m. in Room 421, MacKinnon building. The thesis is: "The Politics of Resource Town Development: Ontario's Resource Communities, 1883-1970." His supervisor is Prof. Gilbert Stelter.

James Petite, Animal and Poultry Science, a candidate for the doctor of philosophy degree, April 24 at 9 a.m. in Room 306, Animal and Poultry Science building. The thesis is: "The Influence of the Adrenal Gland in Reproductive Function and the Timing of Ovulation in the Domestic Hen (*Gallus domesticus*)." His supervisor is Prof. Robert Etches.

Stephen Cater, Chemistry and Biochemistry, a candidate for the doctor of philosophy degree, April 29 at 2 p.m. in Room 370, Chemistry-Microbiology building. The thesis is: "Mechanistic Investigations in Nucleophilic Aromatic Photosubstitutions: Role of the Nucleophile." His supervisor is Prof. Nigel Bunce. 0

Psychology of law course offered in May

How reliable is the courtroom testimony in cases that involve strong emotions, such as rape and custody abductions? To what extent are witnesses affected by such factors as their own social class, education, sex, beliefs or age? Are policemen, lawyers, judges and reporters influenced by the same factors?

These are some of the issues that Psychology professor Dan Yarmey has studied for more than a decade, and will discuss in a six-week evening credit course, "Psychology of Law," beginning May 5.

It's only in the past 10 years that the legal profession has recognized that the credibility

of witnesses can be evaluated by other than ordinary common sense, says Yarmey. "And even today, the assumptions made by law enforcement officers, lawyers, judges, social workers, psychologists and the public at large should be examined."

He says the course will give students a better understanding of the many issues involved in the interaction between law and psychology, and will help them realize the implications that psychological theories and methods have for changing, and improving, the law and legal processes. The course will be of particular interest to social workers,

correction officers, lawyers and police officers, as well as people preparing for a career in any of these professions.

Author of *The Psychology of Eyewitness Testimony*, Yarmey is a contributor to the 1983 Law Reform Commission of Canada publication, *Pretrial Eyewitness Identification Procedure*, which is now widely used throughout the Canadian legal system and in England.

For more information, contact Part-Time and General Studies, Room 153, Johnston Hall, Ext. 3494. 0

Job opportunities

As of at Guelph deadline April 11, the following opportunities were available:

Technician, Department of Veterinary Microbiology and Immunology; grant position. Hiring range: \$429.68 to \$466.68.

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

Custodian 2, Housekeeping Department; original vacancy; Area 2; night shift. Job rate: \$9.27 per hour; probation rate \$.20 per hour lower than job rate.

Custodian 2, Housekeeping Department, South Residences; original vacancy; day shift. Job rate: \$9.27 per hour; probation rate \$.20 per hour lower than job rate.

Custodian 4, Housekeeping Department, South Residences; consequential vacancy; day shift. Job rate: \$10.20 per hour; probation rate \$.20 per hour lower than job rate.

Library Assistant, Building Surveillance, Library. Salary range: \$278.81 minimum; \$322.22 job rate (level 5); \$401.34 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.

Next Week at Guelph

THURSDAY, April 17, 1986

PSA Film Series — DECISIONS, DECISIONS, 12:10 and 1:10 p.m., UC 441.

Recital - A SURVEY OF GERMAN CLARINET MUSIC, Kaye Powell Royer, clarinet; Terence Ball, viola; Douglas Scott, piano. 12:10 p.m., MacK 107.

Worship - SCRIPTURE STUDY, 1:10 p.m., MacK 313; THE CATHOLIC APPROACH, 4:10 p.m., UC 335; SHARED PRAYER, 5:10 p.m., Chapel, UC Level 5; COMMUNITY DROP-IN, 6 p.m., UC

FRIDAY, April 18, 1986

Worship - CATHOLIC MASS, 8:10 a.m., Chapel, UC Level 5; FACULTY CHRISTIAN FELLOWSHIP, noon, JH 151; MUSLIM CONGREGATIONAL PRAYERS, 12:30 p.m., UC 533; CHINESE CHRISTIAN FELLOWSHIP, 7 p.m., MacK 17A.

Concert - BACH AND SCARLATTI, harpsichords, Douglas Haas, 8 p.m., Chalmers United Church, S5.

SATURDAY, April 19, 1986

Schedule of Dates - EXAMINATIONS CONCLUDE.

SUNDAY, April 20, 1986

Worship - ECUMENICAL CAMPUS MINISTRY. (Anglican, United, Presbyterian), 10 a.m., UC 103; CATHOLIC MASS, 10:10 a.m., PCH; UNIVERSITY BIBLE STUDIES, 10:15 a.m., PS 105.

Cycling Club - DIAGNOSTIC CLINIC, 9:45 a.m.: EVERTON (novice ride), 30 miles, 10 a.m., UC south doors.

MONDAY, April 21, 1986

Worship - CATHOLIC MASS, 5:10 p.m., Chapel, UC Level 5.

TUESDAY, April 22, 1986

Worship - CATHOLIC MASS, 12:10 p.m., Chapel, UC Level 5; SCRIPTURE ALIVE, 4:10 p.m., UC 335, FAITHFUL CURIOUS, 5 p.m., UC 334.

WEDNESDAY, April 23, 1986

Schedule of Dates - EXAMINATION RESULTS to be submitted by noon.

Worship - ANGLICAN HOLY COMMUNION, noon, Chapel, UC Level 5.

OVC Seminar Series - THE SIGNIFICANCE OF NK CELLS IN VIRUS INFECTIONS IN PIGLETS, Brian Derbyshire, 12:10 p.m., CS 508.

Cycling Club - HESPELER, 25 miles, 5 p.m., UC south doors.

Seminar - THE HEMATOLOGICAL EFFECT OF SUPPLEMENTING VITAMIN A AND IRON TO ANEMIC CHILDREN. Luis Mena, 4:10 p.m., ANNU 306.

THURSDAY, April 24, 1986

Schedule of Dates -- ACADEMIC REVIEW.

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

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

following abbreviations are used in Next Week at Guelph: APS=Animal and Poultry Science; UC=University Centre; 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; H B=Human Biology; AC=Athletics Centre; I rbs=McLatighlin Library; B&=Botany-Genetics-Zoology.

Loving atmospheres: Seminar for those working with young, old

Intergenerational relationships and programming are the topics of a day-long seminar May 2, designed for people working with the old and the young. Sponsored by the Department of Family Studies and Continuing Education, the seminar will be of particular interest to early childhood educators and people working with the elderly in government, social services and nursing homes.

Several model programs that bring the young and old together will be highlighted, among them Villa Colombo Nursing Home and Children's Centre, which serves Toronto's Italian community. Rosalia Settino, children's centre director at Villa Colombo, will discuss programs for preschoolers and elderly residents. These include plays involving both age groups, a summer "Olympics" of games and an annual Christmas nativity presentation similar to those that take place in thousands of Italian villages.

Like all such combined programs, Villa Colombo's fosters a loving atmosphere between young and old to the mutual benefit of both groups. "Our children are so much more sensitive- because of their contact with the elderly, Settino says. And even Alzheimer's disease patients, who are shut off from other adults, smile and make eye contact with children, she says.

Keynote speaker at the seminar will be Kathryn Thorp, executive director of Positive Youth Development Initiatives in Madison, Wisconsin. Family Studies professor Joe Tindale will speak on informal support networks in families and the importance of peers. Conference chair is Prof. Deborah Stone-Zukowski, Family Studies, who will discuss her survey on intergenerational programs in Ontario. Other Family Studies faculty involved in the conference are Prof. Joan Norris, who will lead discussion on the benefits of working with the young and old together, and Prof. Griff Morgan.

Further information is available from Pat Zorge in Continuing Education, Ext. 3957. 0



is published by the University of Guelph for the University community and its friends every Thursday except during December, July and August when a reduced schedule applies. AT GUELPH is guided by an editorial policy approved by the President of the University. Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless specified. Stories may be reprinted with acknowledgement or source.

Editorial office: Public Relations and Information, Level 4, University Centre, Telephone: 1-519-824-4120, Ext. 3800; Executive Editor - Sandra Webster; Assistant Editor - Barbara Chaney; NEUMORJH DOBSW at UOF-GUELPH CoSy: swester. ISSN 0830-8249
Postage paid-in cash at first class rates, Permit 1149, Guelph, Ontario N1G 2W1