

Fall Convocation

Bill Stewart begins duties as Chancellor

Left to right:
Dr. Stephenson,
Mr. Franklin,
Chancellor Stewart,
Dr. Clark and
Mr. Whelan.



Dr. Connell

Dr. George Connell, president of the University of Western Ontario and chairman of the Council of Ontario Universities, gave greetings on behalf of all the universities and colleges of Canada. Recalling that Chancellor Stewart is remembered in Middlesex County as the person who brought water to London from Lake Huron, he hoped that the Chancellor would be instrumental in establishing a pipeline between Queen's Park and the universities and colleges of Ontario ... "and I trust it will not carry cold water," he added.

Acting President and Vice-Chancellor Dr. Howard Clark, noted that it was fitting that Guelph should install its new Chancellor during National Universities Week

At the afternoon ceremony, Dr. F. Champion Stewart, cell biologist and professor emeritus, Cornell University, received an Honorary Doctor of Science degree. He gave an entertaining account of how his career path has been shaped. The man who was a parson's son, who read chemistry and got into botany, said that Providence that shapes our destiny played a large part in his success. Times have always been hard, he said, but he urged the graduates to face the uncertain future with confidence and excitement. □

Billets Needed

Billets are needed for people attending the "Strategies for Peace and Security in a Nuclear Age" conference on campus October 27 to October 30.

If you are able to host a visitor, please contact Professor Gustave Van Beers, Economics, Ext. 2189.

Mr. Stewart is robed by, left, Registrar Arnold Holmes and Chairman, Board of Governors, Cecil Franklin.



Amid pageantry as colorful as the autumn campus landscape, Guelph installed its fourth chancellor last Friday afternoon.

Surrounded by representatives of the federal and provincial governments and universities and colleges across Canada, William A. Stewart donned the gold-braided black gown and pledged himself to perform the duties of the Chancellor of the University of Guelph.

The former Ontario Minister of Agriculture and Food who played an active role in the incorporation of the University of Guelph in 1964 addressed the graduates at the morning Convocation ceremony. Chancellor Stewart urged the graduates to develop a sense of social sensitivity and consciousness so they can better respond to the needs of those around them. "Surely the most important aspect of life is in learning how to live to the fullest of one's potential, both in one's chosen field of endeavor and in one's social consciousness and responsibility."

The Honourable Eugene Whelan, Minister of Agriculture, brought greetings from the Government of Canada. He said his Ministry is anxious to see Guelph continue to serve as a centre of agricultural excellence. Addressing federal/provincial responsibility in agricultural development Mr. Whelan said he expects an improved atmosphere will emerge when the new economic and regional development agreements (E RDAs) are signed with the provinces. And, he added, both levels of government will continue to rely on Guelph for expert information and advice.

The Honourable Bette Stephenson, Minister of Colleges and Universities, extended greetings on behalf of the people and government of the Province of Ontario. Dr. Stephenson said universities must learn to live within the resources available to them and remain flexible and adaptable. At the same time, she said, they must never lose the *raison d'être* of the universities.



Jane Morley, who co-ordinated the Pre-Retirement Planning Program for the Continuing Education Division and Personnel, chats at break-time with, left to right, Professor George Bedell, School of Hotel and Food Administration, Professor Earl McNaughton, Physics, and Professor Ted McNinch, Independent Study Division. The new program was first presented for staff members last autumn.

USRP&D gets accreditation

The M.Sc. program in rural planning at Guelph has been officially recognized by the Canadian Institute of Planners in Ottawa.

The accreditation will enhance employment and promotion prospects for graduates from the University School of Rural Planning and Development, says Mark Lapping, Director of the School.

"We are delighted that the professional content and quality of our faculty, students and programs have been recognized by the CIP -- the one and only professional planning institute in the country," he adds.

The accreditation of the School's program, established in 1981, adds Guelph's name to a list of 13 other planning schools in Canada, none of which offer a rural planning program. The recognition suggests that CIP is supportive of programs that do not include traditional planning, according to Prof. Lapping.

"The accreditation ties us more directly to the profession and will allow us to speak as members, as opposed to outsiders," he says. "The students will be viewed as equals by their colleagues across the country when it comes to conferences and workshops."

The process of accreditation involved proposals, documentation and presentations to local and national committees which consider such areas as curriculum and faculty.

The executive director of the CIP, Beric Graham-Smith, says few applicants are denied accreditation because most university schools mean business and are able to meet the criteria.

"I think the CIP recognition was due, in large part, to the combination of a great amount of professional planning experience and the solid academic background of many of our faculty members, particularly Professors Harry Cummings, Steven Rodd and George Penfold," says Prof. Lapping. "Prof. Penfold was instrumental in getting the program accredited by working with the Institute and committees." □

CBS graduate scholarship established

A scholarship is to be established in the name of Professor Keith Ronald who was Dean of the College of Biological Science for 12 years.

The scholarship will be given to a person who shows academic excellence and potential, is a graduate of the College of Biological Science, and who is intending to pursue graduate study in any area of biology at the University of Guelph.

Members of the University community who wish to contribute to the fund should do so through the Department of Alumni Affairs and Development, Johnston Hall. □

Planning for retirement?

A questionnaire answered by 300 Guelph faculty and staff members who are approaching retirement, indicates that financial matters are well ahead of housing, health, sex or widowhood as primary areas of concern. Pensions and benefits, estate planning, tax laws and exemptions emerged as the subjects most respondents wanted to see included in future programs on planning for retirement.

These concerns are reflected in the coming "Planning for Retirement" series. Seven morning sessions will be offered on successive Tuesdays beginning November 1. The program is sponsored by the Employment Services and Training office and co-ordinated by Cal Swegles and retiree, Jim Curran. Participation will be by special invitation only.

Following an initial session on the general need for retirement planning, the second, third and much of the fourth session will be devoted to such matters as pensions and benefits, Canada pensions, old age security, unemployment insurance and supplementary benefits, spousal and retirees' benefits, taxes, income splitting, RRSPs, RHOSPs, investments, wills and the duties of an executor. Housing, health, social relation-

ships and retirement activities will be discussed in subsequent sessions.

Mr. Curran says the "Planning for Retirement" program will be conducted for support staff and limited to 30 registrants who will be retiring in the next five years. A program for faculty members will be offered during the winter semester. Subsequent programs planned for the spring and later will be open to those retiring five to 15 years from now.

The people who will give the "Planning for Retirement" program are almost all retired University staff or faculty members. Only Russell Kelly, of the federal government's income and securities branch, Raymond Smith, a real estate planning consultant with Canada Trust and George Hindley, superintendent, Wellington County Board of Education, will join the team from off-campus. On-campus people are with the College of Family and Consumer Studies, Medical Services, School of Human Biology and the Personnel Department.

Prospective participants who receive a letter of invitation are urged to register as soon as possible. A registration fee of \$10 will be used to help defray the costs of instructional materials. □

THE SURPLUS SALES Department, Blackwood Hall, has the following item for sale to Departments only: one Apple 11+; c/w CPM card (two serial cards, joy stick, two disc drives, Apple language card plus software). Reserved price of \$2,500. Under Surplus Declaration #317, University of Guelph. For further information and viewing, contact Dave Scott at Ext. 8139.

THE CAPTAIN'S PROGRAM continues with a noon hour series on "Interpersonal Relationships." Beginning Wednesday, October 19 the first presentation is entitled "Coping With Long Distance Relationships." This will be followed by a session on survival tips for ending relationships on October 26 and resolving room-mate hassles on November 2. All presentations will be in Room 335, University Centre starting at 12:10 p.m.

Winegard predicts the future:

Fewer dollars , chopped programs

Ontario universities can expect fewer dollars per student and the chopping of programs in the future. The black and white reality of projected declining enrolments and government policy, came home in predictions made last week by former University of Guelph president and OCUA chairman, Bill Winegard. He was speaking on "Ontario Universities — Looking at the Future" to an audience attending a National Universities Week lecture in War Memorial Hall.

Dr. Winegard said universities are now enjoying a peak in full-time student enrolment but the direction for the next 15 years is downward.

Dr. Winegard warned the government not to bring out a new funding policy for universities. The present formula is based on an average of the institutions' enrolment in the three years preceding the current year, and payment for any increase or decrease in enrolments from that figure is discounted by 50 per cent. It is largely due to the success of this formula, he argued, that the government has been able to meet its accessibility policy which ensures a place for

every qualified Grade 13 Ontario graduate, although not necessarily in the university or program of their choice. "What are we designing a new formula to do?" he asked. "The pie is not going to get any bigger, and the next year or so is uncertain in terms of enrolment. Surely there will be no accessibility problem after the downturn, and that factor can be taken out of consideration."

Noting that the expenditure per student in the system has fallen by 15 to 20 per cent during the past eight years, he predicted that universities will do well to maintain their current expenditure per student, but said he doubts they will.

Dr. Winegard also believes the university system will be rationalized during the next 20 years. "There is a growing sense in government that something has to give — either more money or fewer programs," he said. "More money seems unlikely to me; fewer programs are a real possibility." He noted that this will probably be carried out by two methods: the direct grant method, used at Trent University, which enables the phasing out of programs with the aid of government

funding, and, the supervisor method, as set out in the government's recent controversial deficit legislation. This method enables government to appoint an administrator to manage the affairs of a university that runs too large a deficit.

Turning to technology and education, Dr. Winegard praised the growth of technology and its many uses as an aid in education. But he also envisions a battle in university seminar rooms to prevent technology from becoming education. "Technical achievements are so exciting that we have to guard against the intrusion of technique into substance. This is true for science, but even more true for the humanities and social sciences. These latter two are the liberalizing elements and will remain so, as long as they do not take on the cloak of science and try to become involved in the use of electronic techniques for teaching. Concerning the future of research, Dr. Winegard commented on the increasing pressure for universities to be useful and practical. "We are even in competition for research and development funds," he said. "Basic research is our main task. Only the universities have the human and financial resources it requires. Applied research is necessary in certain disciplines, such as engineering," he said.

Dr. Winegard concluded by suggesting priorities for the future. He summed up: "Each university should do things it does well, and drop those it does poorly." □

Shaw authority visits Guelph

Dan Laurence's one-man show "G.B.S. in Love," and a public lecture, "Bernard Shaw and the Uses of History" will give the University community an opportunity to see and hear a world authority on one of the greatest writers in the English language.

Distinguished Visiting Professor, Dan Laurence, is spending the fall semester with the Department of Drama. A former actor, he has emerged as the leading specialist on George Bernard Shaw and literary advisor to the Shaw Festival in Niagara-on-the-Lake; literary and dramatic advisor to the Shaw estate; editor of Shaw's collected works, and editorial supervisor for the Penguin texts. His published works include *The Collected Letters of Bernard Shaw*, *Platform and Pulpit*, *Shaw's Music* and, in collaboration with James M. Rambeau, Pennsylvania State University, a new volume of Shaw's letters to the press which will appear in 1984 under the title, *Agitations*.

The most onerous of Prof. Laurence's Shavian chores has been the preparation of the massive bibliography listing Shaw's total published output. "G.B.S., already a prolific writer at the age of 20, turned out not less than a million words a year for the next three-quarters of a century. It is improbable that any writer in history was ever more productive. The bibliography, with its 1,000 pages and 120-page, double-columned index, is by far the lengthiest work of its kind ever published and repre-

sents some 30 years of research," says Prof. Laurence.

Asked about Shaw's present and future eminence in the world of drama, Prof. Laurence points out that no other writer has had so many of his plays in production in so many languages in theatres in every part of the world. If anything, his prestige with playgoers is still growing. "It is not just a matter of his dazzling mastery of the English language, his wit or his reputation as a character; his plays are popular because they make incisive statements about aspects of the human condition that are intensely relevant for today's world."

While on campus, Prof. Laurence is giving a course in world drama which examines "not only Greek tragedy but also the Victorian music halls; not only miracle plays but also medieval street entertainers." Prof. Leonard Conolly, Drama Chairman, who invited Prof. Laurence to Guelph prior to the University's acquiring the Shaw Festival archives, says the presence of Prof. Laurence as well as former Vice-President, Academic and English professor Percy Smith, who is also a distinguished Shaw Scholar and the Shaw archives now housed at Guelph, represents a formidable collection of Shavian resources and expertise.

"G.B.S. in Love" will be presented November 11 in Music Room 107 of the MacKinnon building. The public lecture is Thursday, October 13, 4 p.m., at the Inner Stage, MacKinnon building. □

When funding was a gentlemanly procedure

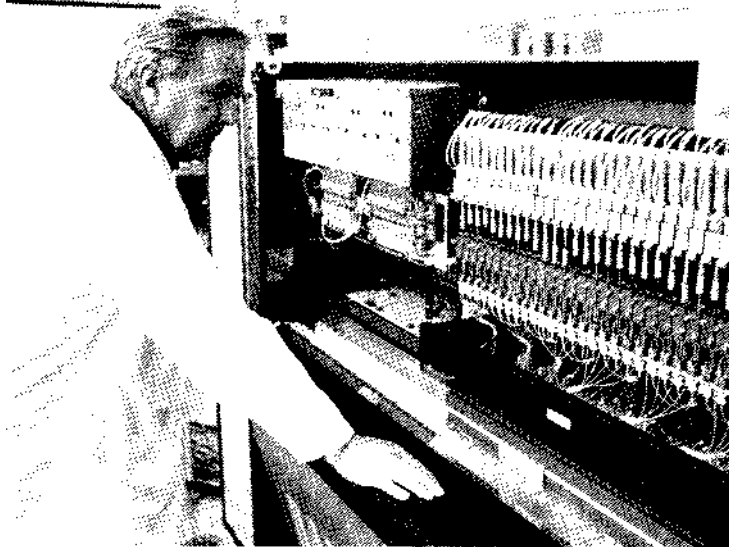
The development and evolution of the university system in Ontario provided the theme for Professor Herb Armstrong's talk that kicked off National Universities Week at Guelph. He pointed out that when he was a student in the University of Toronto, only five degree-granting institutions existed in Ontario.

He traced the development of increased university enrolment, and of the gradual increase in the number of universities, with the explosive jump in numbers that occurred between the late 1950s and the mid-1960s.

In earlier days, no funding formula was needed, Prof. Armstrong noted, because the heads of the few universities each "sat down to lunch" with the provincial treasurer and one or two of his colleagues and were told what they would receive. It was a "gentlemanly procedure," said Prof. Armstrong, that lasted into the 1960s.

The increasing scale and complexity of the Ontario university system ultimately led to the formation of the Council of Ontario Universities that can speak on behalf of all institutions, as well as such innovations as formula financing. □

NSERC grants awarded for research equipment



The new serum biochemical analyzer, a \$324,000, computerized machine that can perform 240 serum profiles per hour, is installed and busy in the Clinical Pathology laboratory. Dr. B.J. McSherry, Pathology, one of seven Guelph faculty members who supported Dr. Ted Valli's application for NSERC funds, observes the machine's operation.

Researchers at the University have received \$1.2 million in scientific equipment grants from the Natural Sciences and Engineering Council of Canada for 1983-1984.

Grants to researchers at Canadian universities totalled \$26.6 million in two categories: equipment grants and major equipment grants. Guelph was awarded \$502,523 in equipment grants and \$692,755 in major equipment grants.

One of the major equipment grants was a \$162,500 grant to Dr. Ted Valli, Pathology, and colleagues for the purchase of a serum biochemical analyzer.

"This is one of the largest NSERC equipment grants received by faculty members in DVC," says Dr. Wayne Marsh, Office of Research. "This particular piece of equipment will be used for NSERC research, OMAF research and services, as well as undergraduate

and graduate teaching so the total cost of the equipment is much more than the amount of the NSERC grant."

Other major grants were awarded to groups headed by Professors Ed Janzen, Chemistry, (\$275,000) for the purchase of an ENDOR spectrometer; Douglas Larson, Botany & Genetics, (\$118,250) for growth chamber replacements; and Les Evans, Land Resource Science, (\$137,005) for an X-ray diffractometer.

In the major equipment grants category, most recipients represent a number of researchers. "Large pieces of equipment are generally so expensive that unless there is a large group of people involved, there is little chance of getting an equipment grant from NSERC," say Dr. Marsh. "More and more large groups are collaborating to get equipment."

The following faculty members were awarded equipment grants: Professors Mike Baker, Zoology; Fred Beamish, Zoology; Terry Beveridge, Microbiology; Nigel Bunce, Chemistry; Tom Carey, Computing & Information Science; Bob Etches, Animal & Poultry Science; Ann Gibbins, Biomedical Science; Bill Grovum, Biomedical Science; Ross Hallett, Physics; Bruce Holub, Nutrition; Murray Miller, Land Resource Science; Barry Millman, Physics; Ross Nazar, Botany & Genetics; Frances Sharom, Chemistry; John Sprague, Zoology; Dave Stanley, Food Science, and Roselynn Stevenson, Microbiology. □

The cube and Cindy Brewer

Map-makers entering the computer age need better ways to convey information on a two-dimensional surface.

Tackling this problem in her undergraduate thesis has earned Cindy Brewer, a Geography graduate from Guelph, the prestigious National Geographic Society Award in Cartography. The award is presented annually to North American undergraduate or masters students for research on any aspect of cartography.

Ms. Brewer was not the first person to come up with the idea of using a cube as a volumetric symbol, but little research had been done on it. The cube can more accurately convey quantitative differences but, in the process of rendering the cube two-dimensionally, problems arise literally in the eye of the beholder.

The symbol most often used in cartography is the circle. A small circle, for example, might indicate a district producing a small quantity of iron ore. A large circle would indicate a large quantity of iron ore. The actual production figures might appear in a table. Any attempt to indicate these quantities graphically becomes difficult when the figures are far apart.

Geography professor Alun Joseph says Ms. Brewer's achievement is a credit to her and the University but also indicates the importance attached by cartographers to problems of volumetric representation.

One of the most interesting aspects of Ms. Brewer's work, notes Prof. Joseph, is its complex inter-disciplinary nature. Ms. Brewer was a fine arts as well as a geography major. Her speciality in fine arts was non-representational sculpture. It was this three-dimensional abstract thinking that she brought to bear on her undergraduate thesis.

The problem of perception brought her in contact with Psychology professor David Piggins whose work on optical illusions helped her towards combinations of line and block drawings of cubes that reduced perceptive inaccuracies.

With the help of David Bell, who teaches the introductory cartography course, she tested her alternatives with several large test panels of 60 or more students and took several additional computer courses to help her evaluate the results.

Ms. Brewer's thoroughness paid off. A revised version of her award-winning paper, jointly authored by Professor Brent Hall, Geography, her original supervisor in the project, Prof. Piggins and herself, has been submitted to *Perception*, a journal of academic psychology.

After graduating this spring, Ms. Brewer spent the summer with the Ontario Ministry of the Environment and has accepted a scholarship to attend Michigan State University this fall. □

Phase two at Huntsman Marine Lab

Professor Keith Ronald, Zoology, has returned to the executive fold of the marine consortium he helped establish at St. Andrew's, New Brunswick in 1969.

This unique enterprise, called the Huntsman Marine Laboratory, came about in an attempt to rationalize the research facilities that would be available to universities, government and industry within a single campus. Both Prof. Ronald and Vice-president, Administration, Charles Ferguson, were part of the original founding team that convinced 13 universities, three governments and two research institutes to support this unique enterprise.

In resuming the presidency, and chairmanship of the board of directors, Prof. Ronald says, "We are now entering phase two in the history of the HM L, and pulling together recognizable support for the consortium's future. We are very pleased to recognize the initial input has come from long-time friends of this University, especially the Canadian National Sportsmen's Fund which has donated \$500,000.1□

Colloquium focuses on Karl Popper

The colloquium for the critical approach to science and philosophy will be held on a regular basis again this year, bringing together people from disciplines and professions who have encountered philosophical problems which appear central to their work.

The colloquium takes, as its point of departure, an interest in the philosophy of Karl Popper. Papers are invited. Persons who make presentations to the colloquium are asked to assume an audience of *non-specialists*, to give the audience a minimum of background information from their field of specialization and then to proceed to a discussion of the problems they are working on.

Meetings are held on Sunday afternoons with two presentations scheduled for each meeting. Anyone interested is welcome to attend. Informal dinner arrangements will be made for those who can stay after the meetings.

On October 16, the meeting begins at 1:30 p.m. in Room 442, University Centre.

Professor William Berkson of Washington, D.C. will speak on "Learning From Error: Popper's Psychology of Discovery." At 4 p.m., "Conceptual Change: Some Puzzles," will be discussed by Professor Jagdish Hattiangadi, philosophy, York University.

Tentatively scheduled for future meetings are: Professor Michael Sukale, philosophy, Universitaet Dusseldorf, "Perspective and Illusion: The Problem of Perception in the Theory of Knowledge and Art"; Professor Fred Eidlin, Political Studies, Guelph, "Ideology in Politics and in Science: Paradigms and Political Theories"; Professor Edward Davenport, English, John Jay College, City University of New York, "The Problems of Literary Criticism"; Paul Levinson, communications, Fairleigh Dickinson University, "Evolution, Technology, and Rationality," and, Professor Michael Chiariello, philosophy, St. Bonaventure University, "Ethics Without Foundations."

Further information: Prof. Eidlin, Ext. 3469 or Professor Tom Settle, Philosophy, Ext. 3123. □



THE COLLEGE WOMEN'S CLUB presents "Fabulous Fall Fashions '83" Tuesday, November 1 at 7:30 p.m. at the Puslinch Community Centre, Aberfoyle.

Tickets, at \$5, are available by calling 836-7814, 821-6646, 824-1606 or 824-2104.

THE UNIVERSITY CENTRE is pleased to announce the first in a series of debates — "The University Centre Debates."

The resolution, "Resolved That the Route to Peace is Through Strength," will be debated in Room 103 of the University Centre on Wednesday, October 19 at 7:30 p.m.

The debators will be Lieutenant Colonel Brian MacDonald, executive director of The Canadian Institute for Strategic Studies, and Professor Peter Brigg, English Language and Literature, University of Guelph. The moderator for the debate will be Dr. David Howie, chairman, The Atlantic Council of Canada.

WORLD HUNGER is the subject of two videotapes being shown Friday, October 14, as part of World Food Day. "The Edge of Survival," a 45-minute production of Public Broadcasting System in the U.S., explores the obstacles that prevent the world's hungry from ever tasting the food that is produced in abundance on this planet. Case studies were taken from situations in Brazil, Ecuador and India. "Tilt" is a wryly amusing National Film Board production, a short, animated cartoon showing how world food markets are manipulated. The videos are free and will be shown in University Centre 103, starting at 12 noon.

THE SURPLUS SALES Department, Blackwood Hall, has the following item for sale to on-campus Departments only: one Compustar 30 computer system. For further information and viewing, please contact the Surplus Office at Ext. 8139, during working hours.

THE GUELPH INTERNATIONAL Resource Centre, in co-operation with other groups, is holding a two-day International Arts and Crafts Sale. Items to be sold include clay ornaments, wicker crafts, sweaters, ponchos, tapestries, etc. The sale will be held Friday, November 4, 5 p.m. to 9 p.m. and Saturday, November 5, 9 a.m. to 5 p.m. All proceeds will support the work of G.I.R.C., Mennonite Central Committee, Native Carvers from Six Nations Reserve and the Committee for Human Rights and Culture in Latin America, among others.

For more information contact G.I.R.C. at 822-3110.

THE SECOND ANNUAL Microcomputer Display and Seminars are being held Wednesday, October 12 and Thursday, October 13 in the University Centre.

On Thursday, October 13 in Room 103, University Centre the following lectures will be presented: "Telidon as a Teaching Tool," by Ab Moore, Office for Educational Practice, and Tom Herrmann, Psychology at 9:10 a.m.; "Telidon as a Research Tool," by Ellen Pearson, Library, at 10:45 a.m., and "Great Graphics," by Bob Itami, Landscape Architect, and Greg Blair, Collins and Moon, at 2:10 p.m. The equipment display will be in Room 442, University Centre.

Finance and grape-growing for novice farmers

The Novice Farmer program at Guelph is enriched by two new short courses this fall. "Financing a Part-time Farm" and "Growing Grapes" have been added to the program of non-degree evening and Saturday courses.

The new courses join perennial favorites such as "Beekeeping," "Woodlot Management," and "Small Poultry Flocks," which are at an introductory level, and taught by specialists. There are no academic requirements for the program, and some of the courses have a limited enrolment.

"The new courses, which will be taught at the University, were added as a result of requests by past course participants," says Nancy McPherson, program co-ordinator, Continuing Education. To accommodate the largest number of people in southern Ontario, other courses in the program will be presented in Toronto and Milton.

"Growing Grapes" on the evenings of Tuesday, November 1 and November 8, provides information for gardeners and home winemakers on soils, aspects of climate, site selection, choice of species, and pruning. "Financing Part-time Farms," on Saturday, November 5, covers business basics such as how to manage balance sheets, profit and loss statements, and cash flow projections.

Some of the courses in the Novice Farmer program have begun, but there is time to sign up for the remaining courses. "Successful Vegetable Production and Storage," Saturday, November 12, is concerned with everything from planting and propagating different varieties to nutrition and pest control.

Participants in "Fish Farming" will tour a fish farm to see a commercial operation in action and have discussions with the manager. A course for beginners, not commercial operators, "Fish Farming" takes place Friday evening, November 18 and Saturday, November 19. Before the tour, there will be a lecture on basics about fish, raceway construction and hatchery operations.

In Milton, "Small Poultry Flocks" and "Woodlot Management" will be presented. The first course began Tuesday, October 11. In the second, a forester deals with tree identification, measurement, quality, value and selection for cutting as well as cutting techniques. "Woodlot Management" includes a field trip and begins October 19.

Whether people follow a "do-it-yourself" pattern or hire a contractor when building a greenhouse, they need to know the proper site selection and required facilities for the completed structure. "How to Build a Hobby Greenhouse," in Toronto on Saturday, November 26, covers everything from building codes and standards to basic framework erection procedures and temperature control systems.

Details: Continuing Education, Ext. 3064. □

COMPUTER ACCOUNTING RELOCATES.

As of October 11, Liz Reemeyer (Computer Accounting) has moved to Room 204, ICS building. Carl Mohan has moved to Room 220, ICS and Alastair Mayer has moved to Room 208, ICS.

The Computer Accounting telephone extension will remain as 3717.



Make nuclear warfare impractical

The ethics of nuclear weapons research cannot be separated from the background of general public ethics and the ethics of conventional arms production.

This was the central theme of a presentation made by Physics professor Peter Egelstaff in the current series of noon-hour lectures, "The University and Nuclear Arms."

Prof. Egelstaff, a world-class research physicist, Fellow of the Royal Society of Canada and one-time member of the Chalk River Nuclear Laboratory, said that the ethics of an enterprise should not be considered in isolation. "We have to think of all sides, taking into account the potential consequences of all alternative courses of actions," he said.

Public policy permits, and even applauds, the sales of conventional weapons which have been responsible for the death or injury of about 25 million people in the small-scale wars which have been fought since 1945, he continued. None of those deaths can be attributed to nuclear arms research — nuclear weapons do not appear in the world arms trade sales catalogues. On the other hand, he said, no major war has been fought during that same period — a fact that might well be attributed to the success of nuclear arms research in maintaining a dynamic nuclear stalemate.

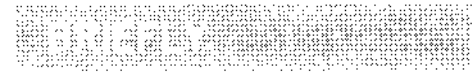
"Many people say the worst air raid in history was not on Hiroshima, but on

the city of Dresden. This illustrates the destructive potential of conventional warfare and we have to ask ourselves if the destruction of a city with conventional bombs is in any way less immoral than its destruction with a single nuclear weapon."

As far as the future is concerned, Prof. Egelstaff feels that nuclear research was of critical importance both in the evolution of effective control measures and, eventually in the possibility of making nuclear war not just unethical but impractical. "The institution of slavery persisted for centuries despite widespread moral repugnance," he told his audience. "It was ended, not by an improved ethic but as a result of the development of machines based on physical science which simply made slavery inefficient, and so the opposition to its abolition disappeared."

He concluded by saying that many physicists would agree with the thesis of Professor W. Panofsky, director of the Stanford Linear Accelerator Centre: that "if the technical and scientific nature of nuclear weaponry were more clearly recognized and considered by the political decision-makers, then the largely non-technical factors which now drive the arms race would be greatly diminished."

The series continues at 12 noon each Monday in Room 440 of the University Centre. □



THE THURSDAY NOON-HOUR concert on October 13 features Shauna Rolston, cello, and Isobel Moore, piano, at 12:10 p.m. to 12:45 p.m. and 1:10 p.m. to 1:45 p.m. in Music Room 107, MacKinnon building.

Program I at 12:10 p.m. will include Beethoven's "Sonata in G Minor, Op. 5, No. 2"; "Improvisations" (1982) for solo cello by Canadian composer Violet Archer (commissioned by Miss Rolston); and "Kol Nidrei" by Max Bruch. Program II at 1:10 p.m. will consist of "Fantasy Pieces, Op. 73," by Schumann; "Sonata, Op. 4," by Kodaly; and David Popper's "Hungarian Rhapsody, Op. 68."

THE SURPLUS SALES Department, Blackwood Hall, has the following items available for sale: chesterfield/chair sets. For further information and viewing contact the Surplus office at Ext. 8139. Under Surplus Declaration #293, University of Guelph.

AUTUMN DAY at the Arboretum will be Sunday, October 16, 11 a.m. to 3:30 p.m. The concert at 2:30 p.m. in the OAC Centennial Centre features Music For Winds And Strings — a Toronto-based group.

The program at 2:30 p.m. will include a duo for cello and bassoon by Boismortier; trio for flute, violin and viola by Reger; a quartet for bassoon and string trio by Francois Devienne; and a quartet for flute and string trio by Mozart.

"HUNGER AS A POLITICAL — Economic Problem" will be the subject of discussion at a World Food Day event being held on campus Tuesday, October 18, in the Our World noon-hour series. Discussion with representatives of the Canadian Hunger Foundation will be held at 12 noon in Room 442, University Centre.

MATHEMATICIANS from universities throughout Ontario will gather on campus Saturday, October 15 for the 66th Ontario Mathematics Meeting, hosted by the Department of Mathematics and Statistics.

The program features lectures by two outstanding mathematicians, M. Golubitsky, University of Houston, Texas, who will speak on "Bifurcation with Symmetry," and N.K. Nikol'skii, Steklov Institute, Leningrad, who will speak on "Multipliers Preserving Fredholmness of Toeplitz Operators." There will also be 10 contributed papers, a tour of the new undergraduate microcomputer laboratory in the Department, and a complimentary wine and cheese reception. Details: Professor William Langford, Ext. 3038 or Professor Phil Fischer, Ext. 2607.

THE UNIVERSITY has a quantity of wood for sale. Students, faculty and staff I.D. required.

Sale at Stone Road Compound Saturday, October 22, starting at 0800, while supplies last.

Prices: trunkload — \$5; station wagon — \$10; pickup/ ton — \$25 (extended sides extra). Limited to 1/ ton trucks, one load per customer. Cash only.



Classroom Service Technician, Technical Operations. MTS III. Salary Range: \$287.53 - \$412.50. Technician, Pathology. Grant Position. Salary commensurate with qualifications and experience.



A 1981 Plymouth Reliant was parked in Branion Plaza for Alcohol Awareness Week, September 26 to 30, to drive home the theme "Mix a little thinking with your drinking." Norm Demers, Counselling and Student Resource Centre, says student response was so good that plans are under way for next year.

Agricultural Award

Professor W.D. Morrison, Animal and Poultry Science has been made a Fellow of the Agricultural Institute of Canada. The AIC Fellowship is the highest honor that the Agricultural Institute of Canada confers upon its members.

Recipients are selected for professional distinction worthy of national recognition and must be persons of integrity who are held in common respect and whose service to Canadian agriculture stems from qualifications such as scientific achievement, scholarship, leadership, breadth of knowledge and experience.

Promotional Award

The Continuing Education Division received an award for promotional excellence in thematic publications at the annual meeting of the Canadian Association for Continuing Education (CAUCE) in Halifax. The Summer Campus '82 brochure, Refresh Yourself, which features the watermelon motif, was honored.

At the annual general meeting, Professor Jim Murray, associate director, University School of Part-Time Studies and Continuing Education and chairman of the School's continuing education division stepped down as president of CAUCE. Marian Croft, Wilfrid Laurier University, is the Association's new president.

Parking Appointment

Lucy Turner, Manager, Parking Administration, has been appointed to the board of advisors for the Institutional and Municipal Parking Congress (IMPC).

The IMPC is a world-wide, non-profit parking organization composed of municipalities, colleges, universities, airports, hospital and other public agencies concerned with planning, financing, design, construction, operation and administration of public and semi-public parking facilities and systems. The purpose of the congress is to provide a forum for the exchange of ideas and information and to provide leadership for the planning, development and operation of efficient, economical and convenient parking facilities.

The board of advisors makes recommendations to the board of directors on various matters, including topics and activities for workshop programs, workshop locations, proposals for workshop improvements, topics and locations for seminars. Individual comments and recommendations are also considered for long-range planning, certification and accreditation, membership classification and dues structures.

Travels and Seminars

Professor Gordon **Macleod**, Animal and Poultry Science, presented technical papers at the annual meetings of the Canadian Society of Animal Science held at Truro, Nova Scotia and at the American Dairy Science Association at Madison, Wisconsin.

Prof. Macleod was chairman of the program committee on feeding and management at the Dairy Science meetings and also of the production and management committee of the American Society of Animal Science meeting at Washington State University. He also presented an invited paper to the Expert Committee on Animal Nutrition in Winnipeg.

Dr. V.G. Mahadevappa, Nutrition, attended the 74th annual meeting of the American Society of Biological Chemists held in San Francisco where he presented a paper, "Deacylation of Different Molecular Species of Phosphatidylcholine in Thrombin-Stimulated Human Platelets," co-authored by Professor B.J. Holub, Nutrition.

Professor V.J. Matthews, Languages and Literatures, Classics section, presented a paper at the meeting of the Classical Association of Canada in Vancouver entitled "Antimachos and the Text of Homer."

Professor Irene Pages, Languages and Literatures, has been awarded a SSHRCC Research Time Stipend to do research on post structuralist and Lacanian "Theories du discours feminin."

Professor John T. Powell, Human Biology, attended three international congresses in Athens and Ancient Olympia where he presented papers and was discussion group co-ordinator and leader:

At the fourth International Congress for Heads of National Olympic Committees, attended by representatives from 32 countries he gave a paper, "Attitudes to Competition in the Ancient Games." At the meetings of the Federation Inter-

Kubow, S., C.M. Dubose, Jr., E.G. Janzen, J.R. Carlson and T.M. Bray, 1983. "The Spin-Trapping of Enzymatically and Chemically Catalyzed Free Radicals from Ihdolic Compounds," Biochemical and Biophysical Research Communications, Vol. 114, No. 1: 168-174 (Kubow and Bray, Nutrition; Dubose and Janzen, Chemistry; Carlson, Pulman, Washington).

Matthews, V.J., 1982. "Where is Eumelus Fragment 9 Kinkel?," Eranos 80: 119-123 (Languages and Literatures).

Muckle, C.A. and C.L. Gyles, 1983. "Relation of Lipid Content and Exotoxin Production to Virulence of Corynebacterium pseudotuberculosis in Mice," Amer. Journ. of Vet. Res., 44(6): 1149-1153 (Veterinary Microbiology and Immunology).

Pare, Francois, 1983. "Didactique des langues et sainteté," Canadian Children's Literature, 29: 80-84 (Languages and Literatures).

Powell, John T., 1983. "The Olympic Principles as Motivation for Sports Activities," Report of the International Olympic Academy, 20: 106-111 (Human Biology).

Prescott, J.F., D.J. Hoover and I.R. Dohoo, 1983. "Pharmacokinetics of Erythromycin in Foals and in Adult Horses," J. Vet. Pharmacol. Therap. 6: 67-74 (Veterinary Microbiology and Immunology).

Rowberry, R.G. and G.W. Anderson, 1983. "The Profitability of Continuous Potatoes Versus Rotations Including Potatoes and Other Cash Crops," I. Am. Potato J. 60: 503-510 (Horticultural Science and Crop Science).

Shewen, P.E. and B.N. Wilkie, 1983. "Pasteurella haemolytica Cytotoxin: Production by Recognized Serotypes and Neutralization by Type-specific Rabbit Anisera," American Journ. of Vet. Res. 44(4): 715-719 (Veterinary Microbiology and Immunology).

Singh, A., J. McLaren, M. Spinato, P. Shewen and O. Atwal, 1983. "Bronchopulmonary Lavage Cells in the Diagnosis of Bovine Respiratory Diseases," Proceedings, Third International Symposium, World Association, of Veterinary Laboratory Diagnosticians, 2: 353-359 (Singh, McLaren, Spinato, Atwal, Biomedical Sciences; Shewen, Veterinary Microbiology and Immunology).

ationale Education Physique, he spoke on "Human Biology and the Future of Moving Man."

The 23rd Session of the International Olympic Academy, was attended by delegates from 77 countries represented by 11 members of the International Olympic Committee, 17 lecturers and 189 participants. Three women were recently elected members of the IOC and they were present. Prof. Powell gave a paper, "Sport -- Aggression and Violence." Canada was represented by five people chosen by the selection committee, of which Prof. Powell is a member, from 80 applicants to the Canadian Olympic Association.

A.E. Udo, graduate student, Chemistry, recently presented a paper at the 26th annual CFBS meeting in Ottawa. The title was: "Proteolysis of a Sialoglycoprotein by P. Haemolytica Cytotoxic Culture Supernatants," co-authored by G.L. Otulakowski, P. Shewen, A. Mellors and B.N. Wilkie.

Stephens, L.R., J.D. Humphrey, P.B. Little and D.A. Barnum, 1983. "Morphological, Biochemical, Antigenic and Cytochemical Relationships among Haemophilus somnus, Haemophilus agni, Haemophilus haemoglobinophilus, Histophilus ovis, and Actinobacillus seminis," Clin. Micro. 17(5): 728-737 (Stephens, Humphrey and Little, Pathology; Barnum, Veterinary Microbiology and Immunology).

Sweeny, P.R., 1983 "Ultrastructure of the Developing Myotendinous Junction of Genetic Dystrophic Chickens," Muscle and Nerve 6: 207-217 (Microbiology).

Vallerand, R., 1983. "The Effect of Differential Amounts of Positive Verbal Feedback on the Intrinsic Motivation of Male Hockey Players," Journal of Sport Psychology, 5: 100-107 (Psychology).

Vallerand, R., 1983. "On the Study of Emotion in Sport: Theoretical and Social Psychological Perspectives," Journal of Sport Psychology, 5: 197-215 (Psychology).

Vallerand, R. and W. Halliwell, 1983. "Vers une Methodologie de Validation Transculturale de Questionnaires Psychologiques: Implications pour la Psychologie du Sport," Canadian Journal of Applied Sport Sciences, 8: 9-18 (Psychology).

Waltner-Toews, David, 1983. Good Housekeeping, Winnipeg: Turnstone Press, 1983 (Veterinary Microbiology and Immunology).

Yamashiro, S., D. Wilson, J. St. George, D. Hyde, C. Plopper and D. Dungworth, 1983. "Effects of O₃ on Submucosal Gland of Bonnet Monkey Trachea," Proceedings of the 41st Annual Meeting of the Electron Microscopy Society of America, 678-679 (Yamashiro, Biomedical Sciences; Wilson, St. George, Hyde, Plopper and Dungworth, University of California, Davis).

Yoshida, Hiromi and J.C. Alexander, 1983. "Enzymatic Hydrolysis of Fractionated Products from Oils Thermally Oxidized in the Laboratory," Lipids 18(6): 402-407 (Nutrition).

Yuen, D.E. and H.H. Draper, 1983. "Long-Term Effects of Excess Protein and Phosphorus on Bone Homeostasis in Adult Mice," Journal of Nutrition Vol. 113: 1374-1380 (Yuen and Draper, Nutrition).

Next Week at Guelph

THURSDAY, 83 10 13

Noon Hour Concert - SHAUNA ROLSTON & ISOBEL MOORE, cello and piano, 1210 and 1310, MacK107.
Instructional Development - DATA BASES YOU MIGHT LIKE TO KNOW, 1500, Ext. 3522 to register.

Apiculture Club - BEEKEEPING IN NORTHERN IRELAND, T. Hunter, 1710, Graham Hall, Rm. 200.

French House - CASABLANCA, 2000, WMH.

Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.
Guelph Field Naturalists - ASTERS AND GOLDENRODS, D. Semple, 1945, Arboretum Centre.

Display - WORLD FOOD DAY, UC Courtyard.

Graduate Student Seminar - BOVINE LEUKEMIA VIRUS INFECTION IN SHEEP: A MODEL FOR RETRO-VIRAL ONCOGENESIS, T. Stirtzinger, 1110, Pathology 220.

ICS - MARKS, J. Mathews, 1315, Ext. 3046 to register.

Lecture - BERNARD SHAW AND THE USES OF HISTORY, D. Laurence, 1600, Inner Stage, MacKinnon building.

Microcomputer Display - TELIDON AS A TEACHING TOOL, Ab Moore, 0910: TELIDON AS A RESEARCH TOOL, E. Pearson, 1045; GREAT

GRAPHICS, B. Itami and G. Blair, 1410, UC103.

FRIDAY, 83 10 14

Friday Flicks - LOVESICK, 1930 and 2130, PS105.

Worship - FACULTY CHRISTIAN FELLOWSHIP, 1200, Johnston Hall 157.

Sports - MEN'S VOLLEYBALL, Laurentian at Guelph; WOMEN'S VOLLEYBALL, Sheridan, 2000, Athletics Centre.

World Food **Week** - EDGE OF SURVIVAL and TILT, videotapes on world hunger, 1200, UC103.

Sale - APICULTURE CLUB HONEY SALE, 0900 to 1500, UC Courtyard.

Movie - CHINA TODAY, 1930, UC103.

SATURDAY, 83 10 15

Guelph Field Naturalists - ASTERS AND GOLDENRODS IN THE FIELDS, J. Semple, 0900, OVC parking lot.

SUNDAY, 83 10 16

Hollywood Nites - STAYIN' ALIVE, 1930 and 2100, WMH.

Worship - ANGLICAN/UNITED, 1600, UC441; CAMPUS CHURCH SERVICE, 1030, PS113; CATHOLIC MASS, 1000, PCH. -

Guelph Cycling Club - CAMPBELLVILLE, 1000, UC; BICYCLE WORKSHOP, 1400, AC west balcony.

International Cinema - EQUUS, 2000, PS105.

Arboretum - GUIDED WALKS, 1100, 1200 and 1300; AUTUMN DAY AT THE ARBORETUM, concert, 1430, OAC Centennial Centre, Arboretum.

Rock Music Close-up - 1930, PCH.

MONDAY, 83 10 17

Faith and Agriculture - GOD'S SMALL CREATURES, R. Richards, 2000, AS141.

The University and Nuclear Arms - ETHICAL CONSIDERATIONS OF THE ARMS RACE, D. Barker, 1210, UC442.

CUSO - INFORMATION MEETING, 1930, UC441; INFORMATION TABLE, 1000, UC Courtyard.

ICS - INTERMEDIATE SPSSX, T. Colwill, 1200, Ext. 3046 to register.

Rock Music Close-up - 1930, WMH.

Lecture - DISCUSSIONS DE SON OEUVRE ET DE LA LITTERATURE CONTEMPORAINE QUEBECOISE, C. de Lamirande, 1500, MacK314.

TUESDAY, 83 10 18

Worship - CATHOLIC MASS, 1700, chapel, level 5, UC; CHRISTIANITY AND MARXISM, 1700, UC332.

Continuing Education - SONG FOR NON-SINGERS, 2000; AGE & AGING: A LITERARY PERSPECTIVE, G. Manning, 1930; Ext. 3956 to register.

ICS - MICROCOMPUTER HANDS-ON, M. Brochet, P. Jones, M.

Torrance, 1300, Ext. 3046 to register.

Classes - CITIZENSHIP ORIENTATION, 1900, Guelph Multicultural Centre, 128 Woolwich St., Suite 203.

Our World - BEYOND COMPASSION, 1210, UC442.

Workshop - TEACHING AND TELIDON, 0900, Ext. 3522 for details.
Meeting - SENATE, 2000, PS113.

Meeting - MICROCOMPUTER CLUB, 1900, ICS212.

Lecture - ABORTION AND MEDICAL TECHNOLOGY, Dr. Heather Morris, 1930, PCH.

WEDNESDAY, 83 10 19

Worship - CHRISTIAN DOCTRINE CLASS, 1700, UC334;

IMMANUEL FELLOWSHIP, 1900, AS141; ANGLICAN EUCHARIST, 1210, Johnston 151; CATHOLIC MASS, 1700, chapel, level 5, UC.

Guelph Cycling Club - ROCKWOOD, 1715, UC.

Continuing Education - WOODLOT MANAGEMENT, E. Borczon, 1900, Ext. 3956 to register.

Meeting - CHOICES: SOME TIPS FOR CHOOSING COURSES, 1210, UC441.

Study Skills Seminar - HOW TO STUDY, 1900, Library Orientation Room.

Biochemistry Seminars - THE ROLE OF APOLIPOPROTEINS IN THE METABOLISM OF VERY LOW DENSITY LIPOPROTEINS IN MAN AND EXPERIMENTAL ANIMALS, Dr. Murray Huff, UWO, 1200, PS222.

Captain's Series - COPING WITH A LONG DISTANCE RELATIONSHIP, Wendy Campbell, 1210, UC335.

ICS - MICROCOMPUTER BITS AND PIECES, D. Genner, R. Creedy, 1030 and 1330, Ext. 3046 to register.

Fibre Symposium - THEORY AND ANALYTICAL METHODS, V. Rasper, Food Science; REGULATIONS AND INDUSTRIAL APPLICATIONS, S.J. Kalich, Christie Brown; NUTRITIONAL AND PHYSIOLOGICAL ASPECTS, D. Jenkins, U. of T., 1900, FACS106.

University Centre Debates - RESOLVED THAT THE ROUTE TO PEACE IS THROUGH STRENGTH, 1930, UC103.

THURSDAY, 83 10 20

Noon Hour Concert - LAWRENCE CHERNEY & WILLIAM AIDE, oboe and piano, 1210 and 1310, MacK107.

Worship - CATHOLIC MASS, 1200, chapel, level 5, UC.

Continuing Education - THE HOME/PERSONAL COMPUTER, M. Matthews, 1900, Ext. 3956 to register.

Graduate Student Seminars - THE MATERNAL TO FETAL TRANSFER OF IMMUNOGLOBULINS ASSOCIATED WITH PLACENTAL LESIONS IN SHEEP, B.J.E. Poitras, 1110, Pathology 220.

Sports - VOLLEYBALL, Guelph at McMaster, 2000.

Writing Centre Workshop - HOW TO WRITE AN ESSAY, 1830, Room 359, McLaughlin Library.

For Sale

1980 Capri hatchback, standard, 4 cyl., 822-8701 after 1700; cedar Viceroy home overlooking 11 acres, Rockwood area, 856-9213; French provincial coffee table, 824-5878; four Volkswagen beetle tires, 823-5732 after 1700; 1978 Plymouth Horizon, standard, 837-1732; Hoover portable washer, size 12 dress boots, bicycle panniers, 821-0961 after 1700; 1967 Vovlo GT, 822-8204; 10 X 11' brown/beige Saxony rug with underpad, contact Gail, 3494; moving sale: household and auto items, 836-7063; women's size 8 downhill buckle ski boots, 8760; unstripped pine trunk, contact Lorraine, 3494; CCM ladies 3-speed bike, ladies size 10 black leather motorcycle jacket and pants, contact Rita, 3494; 10,000 classical records, all labels, some unopened, (416) 468-2854; Yamaha 650 Special 1982, 824-6655; Bateman prints, 824-5865 after 1630; children's size 32 and 34 X-country ski boots, cub outfits, children's size 13 skates, boy's size 2 Bauer and Silver Arrow skates, 821-2044; 1974 Dodge Dart, 837-2815 after 2100; 1982 Britannica Encyclopedia III, 836-9236 after 1800; CB base antenna, 20 ft., 821-9401 after 1700.

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