

guelph

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Coping with inflation, recession

Inside this issue ...

Making ends meet

An American urban sociologist will discuss the effects of stagflation and recession on the family as the topic for the 1983 Harshman lecture, Thursday, March 17.

In "Making Ends Meet", Dr. David Caplovitz, a professor of sociology in the graduate school of the City University, New York, will discuss a research project he directed in four US cities in the late 1970s.

Funded by the National Institute of Mental Health, the project involved interviews with 2,000 families in New York, Atlanta, San Francisco and Detroit.

Unlike the Depression of the 1930s, the 1970 recession had not generated mass protests at the time he began his research. He wondered why. Did social programs such as unemployment insurance and welfare help families adjust to hard times? Had families adopted new patterns of adjustment or were they experiencing pain and strain that could undermine familial stability and mental health? Four different types of families -- the poor, blue collar, white collar and retired -- were included in the research project.

In the Harshman Lecture, Dr. Caplovitz will discuss who is affected most by inflation and recession, how inflation affects mental

health, marital harmony, attitudes, aspirations and the children. He will also shed light on how families in different economic levels cope.

Dr. Caplovitz is an urban sociologist with an interest in consumer issues. He has written many articles and nine books, including: *Making Ends Meet: How Families Cope with Inflation and Recession*; *The Working Addict*; *Consumers in Trouble: A Study of Debtors in Default*, and *The Poor Pay More: Consumer Practices of Low-Income Families*.

The Harshman Lecture, an annual event in the College of Family and Consumer Studies, is funded by the Harshman Foundation. Now in its fourth year, the Harshman Lecture has provided an opportunity to invite Canadian and international scholars to discuss issues related to consumers and families in today's society.

This year's Lecture is in Room 149, Macdonald Hall, at 8 p.m. It is free and open to the public. □



*Sleuth sheds light
on Guelph's past*

(see page 4.)

March Counselling bridges gap

The March Counselling Program for high school students and transfer students will be held Monday, March 21, Tuesday, March 22 and Wednesday, March 23 in Peter Clark Hall, University Centre.

Between 300 and 400 students from Ontario and Quebec usually attend each of the one-day sessions, according to Trish Walker, Admissions.

"It's amazing the distance students will travel," she says. "They come from Sault Ste. Marie, Ottawa, North Bay and Sudbury."

Faculty members, academic counsellors and senior students participate in the March Counselling Program, designed to provide students with an introduction to the University's academic programs, to deal with the transition from high school to University, to answer questions about admissions, and to allow them to see the campus.

"Making the Big Change" will be the topic of the introductory session led by Peggy Patterson and Norm Demers of the Counsel-

ling and Student Resource Centre, along with representatives from Medical Services, Food Services, Residences and Athletics.

Professors from the various Colleges will give introductory course lectures while the students take notes. After the lecture, they will discuss the essence of the lecture and tips on note-taking.

Each afternoon, a financial planning drop-in centre will be set up in Room 444 of the University Centre so students can talk to counsellors on an informal basis.

Tours of the campus will be divided into residence and academic tours while the latter will offer five different tours, depending on the student's choice of program.

During the lunch hour, representatives from OVC will be available to discuss their program and admission procedure with students.

March Counselling is an annual event organized by Admissions, Office of the Registrar. □

COLLEGE ROYAL '83

UNIVERSITY OPEN HOUSE WEEKEND

Saturday, March 12
9:00 a.m.- 5:00 p.m.

Sunday, March 13
11:00 a.m.- 5:00p.m.

Pressures and payoffs for dual income families

More women, particularly mothers of young children, are working outside the home. In the 1976 census, 54 per cent of families reported that both spouses were working outside the home. The same census indicated that 58 per cent of mothers from two-parent families with children under 16 years worked.

Working mothers provide an obvious financial benefit to their families, but according to the latest *FACS Sheet*, "Dual Income Families: Pressures and Payoffs," the benefits go beyond economics. Working women are more independent, have better self-esteem

and are appreciated more by their families than stay-at-home wives. Marriages in which both partners work outside the home are often stronger because both spouses have a role in decision-making, arranging for day care and finances.

High interest rates in the 1970s pushed many wives into the work force. They are working to keep the family home and put food on the table. Despite the obvious contribution working women make to their family's finances, many husbands have

difficulty coping with a working wife's increased independence and economic clout.

In the *FACS Sheet*, faculty members from the College of Family and Consumer Studies discuss some of the social and economic factors that have forced women into the work force and the pressures and payoffs that result when women work.

FACS Sheet, published several times each year, is available by telephoning A.V. Campbell, Ext. 2409. □

Modern farm animal buildings don't need solar heat

Solar heating of animal housing is generally impractical, according to School of Engineering professor Lambert Otten.

Prof. Otten says modern, well-insulated farm buildings need little or no heat because the animals produce sufficient body heat. Heat is needed only to warm the incoming ventilation air, thus preventing drafts of cold air. This is readily accomplished with heat exchangers which can be operated whether or not the sun shines.

As part of a study to measure the performance of solar-heated farm buildings in Southern Ontario, cross-sections of standard farm buildings were constructed at the Arkel Research Station in 1981 with funds supplied

by Ontario Ministry of Agriculture and Food and Ontario Ministry of Energy.

Prof. Otten says one of the problems with solar heated buildings is the climate. "On those days when farmers could use extra heat, heavy cloud coverage frequently prevents effective use of solar energy," he says.

The study also investigated storage of solar energy using a rock bed beneath the buildings. Heat captured by the solar collectors was stored in rocks for use during the night. However, this system is useful only if enough excess solar energy is available throughout the day.

"More research is needed to develop heat exchangers for farm use," says Prof. Otten. □

Faith in human ingenuity

While it would not be entirely true to say that College of Social Science Dean John Vanderkamp routed the doomsayers in his noonhour lecture in the "Living in a 'No-Growth' Society" series, he did show that the economic indicators were less pessimistic than the environmental ones.

He warned against the dangers of extrapolating exponential curves, showing that these are subject to negative feedback mechanisms which slow growth, slow the drain on resources, and provide incentive for the development of alternative resources. "We have, right now, an excellent example of the effectiveness of negative feedback on world oil demand which, not very long ago, was assumed to be on an exponential climb with no end in sight," he said.

Dr. Vanderkamp had questions about the no-growth ethic. "It may be true that we are leaving our grandchildren with fewer material resources but this, surely, is balanced by the fact that we are bequeathing them an enhanced volume of know-how and the technology to deal with the world they inherit. On balance, this may be to their advantage."

The Dean also expressed doubts about voluntary restraint as an effective mechanism for achieving a no-growth society. He suggested that, since the reduction in one individual's work week would soon be picked up by someone else, the effect on the economy would be minimal.

Looking at population growth, Dean Vanderkamp claimed that fertility rates tend to fall as real incomes increase. He visualized a world population of 20 billion by the end of the next century. This estimate would mean a population density greater than that of present day China but far below that of the Netherlands. Feeding such a population, he agreed, would be challenging, but none of the limits to growth theories imply a limit to the growth of human ingenuity. □



B. Mandelbrot

Professor B. Mandelbrot is a visitor in the Department of Mathematics and Statistics during the week of March 14.

Dr. Mandelbrot is a graduate of Ecole Polytechnique, Cal. Inst. Technology, and the University of Paris. Before becoming an IBM Fellow at the Thomas J. Watson Research Center in Yorktown Heights, New York, he was in mathematics departments at the French Research Council, and the Universities of Geneva, Lille, and Ecole Polytechnique. On leave from IBM, he has been a visiting professor of economics and later of applied mathematics at Harvard, of engineering at Yale; of physiology at the Albert Einstein College of Medicine, and of electrical engineering at Yale.

In 1976, he published the text, *Fractals*. Fractals are a revolutionary geometrical concept invented by Mandelbrot that have applications to many diverse fields. These can be used to consider such questions as the distribution of galaxies in the universe, the branching of blood vessels, the fluctuations of the stock market, and the turbulence of a waterfall.

During his visit, Prof. Mandelbrot will deliver a series of lectures, including a public

lecture and an invited talk at a special two-day meeting at Guelph Friday, March 18 and Saturday, March 19. The meeting, entitled "Chaos at Guelph," concerns recent developments in the area of dynamical systems theory (also a field to which fractals are relevant).

Information: Professor W. Smith, Ext. 2155. See "Next Week at Guelph" for lecture details.

John Horn

Professor John Horn is a visiting professor in the Department of Psychology. He is currently professor of psychology at the University of Denver, Denver, Colorado.

Prof. Horn has published 130 papers in the areas of intelligence, aging, research methodology and measurement. He is especially associated with the concepts of crystallized and fluid intelligence.

While at Guelph, Prof. Horn will deliver two public lectures: "Where Ideas About General Intelligence Go Wrong," Tuesday, March 15, 3:30 p.m. in Room 103, University Centre and "Evidence and Interpretations of the Intellectual Differences Between Older and Younger Adults," Monday, March 21, 4 p.m. in Room 124, Land Resource Science.

ontario institute of pedology

Addressing land resource issues for the future

An evaluation of alternative proposals for hydro line routes.

An interpretation for forest management planning of those tree species most suitable for a range of soil conditions.

An inventory and interpretation of soil resources to upgrade the information available for better land use decisions.

Research into soil erosion and land degradation.

These are some of the activities that fall within the purview of the Ontario Institute of Pedology.

Founded in 1977, the Institute is a co-ordinating organization in which soil scientists in the Department of Land Resource Science, the Land Resource Research Institute of Agriculture Canada and the soil survey unit of the plant industry branch, Ontario Ministry of Agriculture and Food, co-operate in inventory, interpretation, research and extension related to the land resources of the Province.

The work of the Institute is planned and carried out by various committees with Professor Ken King, Chairman, Land Resource Science, as the co-ordinating director of the Institute. OIP personnel who are faculty members are located in the Land Resource Science building; non-faculty members are at OMAF's Guelph Agriculture Centre on the City's northern limit.

The on-going work of the Institute is funded independently by each of the three co-operating agencies. By means of contracts, the OIP also takes on projects which have brought nearly half a million dollars to the University in the last three years.

Central to the Institute's activities is the soil inventory program. Agriculture Canada and the OAC have been co-operating on this program since 1935. Even now, with the additional help of OMAF pedologists, it will be into the next century before the soil resources of Ontario are adequately mapped for today's needs. Prof. King, referring to the report, "The Ontario Institute of Pedology — Beyond 1982," prepared recently for the three co-operating agencies, points out that the need for inventory information is evolving at a much greater rate than the inventory can be completed by OIP.

At the end of February, the Ontario Institute of Pedology moved, along with other offices of the Ontario Ministry of Agriculture and Food, from the campus to OMAF's new facilities at the Agricultural Centre on Highway 6, just north of Guelph. The movers made good use of power equipment to get heavy items down from the upper floor of Blackwood Hall.

The soil inventory program, which has as its objective the adequate mapping and interpretation of all the productive land in Ontario, is concentrated on what are referred to as 'front-line' areas where foodlands are threatened by urban developments in southern Ontario. "However desirable it might be to carry out a detailed, comprehensive soil survey covering the whole province," says senior pedologist Cliff Acton, "financial considerations and the limited availability of trained personnel restrict our operations."

Studies of the Niagara Region, Haldimand-Norfolk, Middlesex and Ottawa areas are virtually complete. These projects kept five full-time professionals, a similar number of laboratory technicians and half a dozen summer students busy for the past six years. Plans call for work to be carried



out next in Elgin and Kent counties and Durham region.

A soil survey involves not only field mapping but also laboratory analyses, use of computerized data handling facilities for the grouping and classification of soils, and the generation of interpretive maps linked with the Canadian Soil Information System (CanSIS). Publication of preliminary and final maps and reports and technical bulletins for farmers, foresters, and planners, are the final stages of the inventory process.

In recent years there has been an increased effort made to convey information about land resources to the public. According to Keith Jones, chairman of the extension subcommittee for the Institute, there is a need to continue this emphasis to ensure that user's needs are well understood and addressed in the Institute's program .[]

"Bones" goes to Sportsmen's Show

The Canadian National Sportmen's Show champions the great outdoors each March at Exhibition Place in Toronto. The University's exhibit will focus on the basics, bones.

"Bones" explores the fascinating field of veterinary orthopaedics. Through skeletons, models, illustrations, videotape productions, photographs and radiographs, the exhibit explains the structure and function of bones and shows how modern techniques repair fractures, correct deformities and treat bone diseases.

Prepared for the 1982 Royal Winter Fair, the exhibit displays actual hardware used in veterinary orthopaedics, including plates, artificial hip joints, intramedullary pins and screws.

Two videotape productions of veterinary surgery highlight the exhibit. Filmed in

the Department of Clinical Studies, the videotapes show implantation of an artificial hip joint in a dog and correction of an angular limb deformity of a colt's front leg.

Students will man the exhibit throughout the show. Julie Thur, Information Services tour co-ordinator, invites students to call her at Ext. 3358 if they are interested in helping at the exhibit.

A booklet, also entitled *Bones*, will accompany the exhibit and feature many of the same photographs, illustrations and information.

The exhibit, booklet and videotapes were produced by Media Production, Office for Educational Practice and Information Services working closely with faculty members in the Department of Clinical Studies.

The Sportmen's Show opens Friday March 18 and goes through to Sunday, March 27. □

History professor discovers original John Galt master plan of Guelph

What happened to John Galt's vision of Guelph as the world's most beautiful city — a Renaissance masterpiece fanning out from an elegant public hub centred on Priory Park, its spacious avenues symmetrically radial to a single maple tree?

It has long been assumed his original proposal was no more than a promotional gimmick that Galt sacrificed to expediency, leaving us with a vaguely similar, but sadly flawed, version of the original concept.

No one seriously challenged the theory, least of all History professor Gil Stelter who has made extensive studies in early town planning and is just finishing a book on early Canadian towns. His interest in Guelph and its development led him to read all the correspondence between John Galt and the Canada Company during the two critical years Galt spent in Canada, and to study all the earliest surviving maps and plans for the City's development.

It was the latter pursuit that took him to the Baldwin Room of the Metropolitan Toronto Library to photograph the plans that were actually used for the original Guelph settlement. There, he set up his camera equipment, arranged his lighting carefully, and took 30 to 40 exposures. He became aware that the way the light was angled caused lines to appear on the print which were not apparent on the map. Further investigation showed these lines to be the edges of an overlaid parchment which, when peeled back, revealed a different plan underneath. Prof. Stelter instantly recognized it as the original John Galt master plan.

The rest was detective work.

The first plan of Guelph was drawn up by George Tiffany who was hired by Galt to survey the area in 1827. His plan is lost, but it is known that it was based on Galt's ideas. In 1828 Galt had John McDonald

copy the plan, a baroque concept derived from continental European models which had been adopted by a number of American cities. The McDonald plan survived only in a simplified form, familiar from the 1831 lithograph (*Figure one*) which was pre-dated by the actual plan of Guelph (*Figure two*) produced in 1829 by company officials after Galt had been fired. This plan was pasted over the original Galt/McDonald plan, that has now been brought to light by Prof. Stelter. (*Figure three*)

Galt was undoubtedly a great promoter, notes Prof. Stelter. His choice of St. George's Day for the formal founding of Guelph was no coincidence. But he was also a genuine man of vision who saw that a truly beautiful

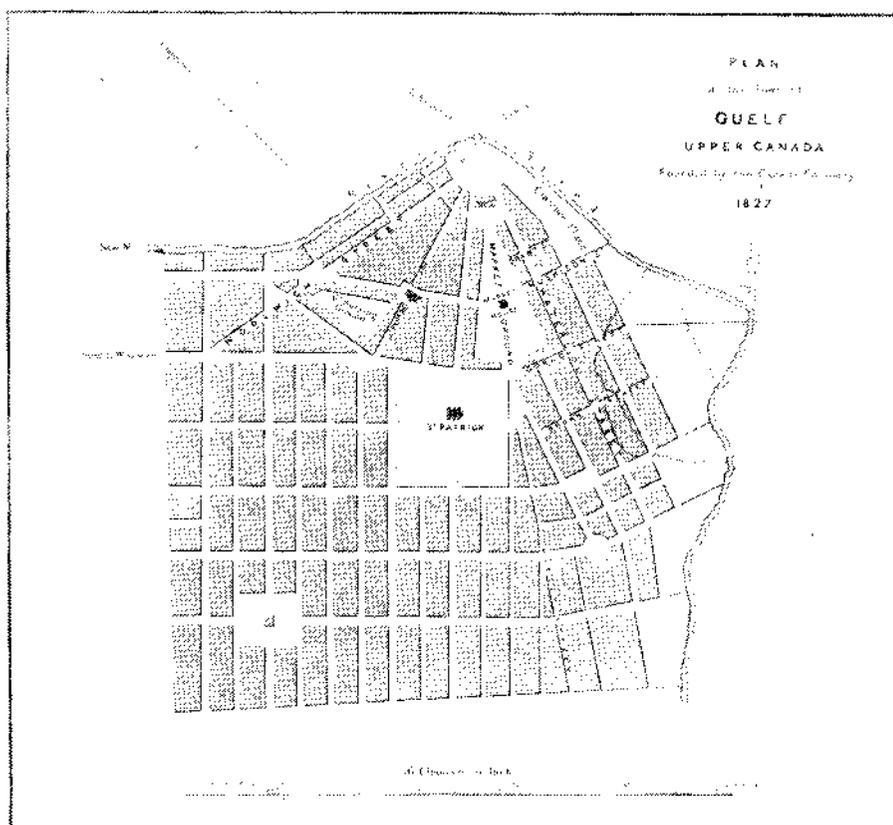


Figure 1.

Guelph-Goderich myth laid to rest

elph

city could be a major selling feature for the immigrants the Canada Company was trying to attract. It was the less visionary company officials who objected to giving up important land to public use. They lopped out portions of the critical semi-circular hub which the Galt plan snuggled into the curve of the Speed River, and destroyed the symmetry of the radial sight lines, leaving Galt to face the censure of history.

"The conflict between aesthetics and economics is an old one and is still very much with us," says Prof. Stelter. "Economics usually wins. What is not usual is for the person, whose vision was put aside, to be saddled with the blame." □

Another Guelph myth which Prof. Stelter has laid to rest is the persistent belief that, somehow, the Guelph plans were switched with Goderich.

The confusion, according to Professor Stelter, arose from the fact that John Galt was enthusiastic about the location and never had any doubt in his mind about the future importance of Guelph. It was he who made the decision to name it after the Royal Family in the teeth of the Canada Company's conviction that Guelph would never amount to anything.

Explains Prof. Stelter: "They insisted that the name be saved for the far greater city they thought would be built up on the Huron Tract. They wanted Galt's little town on the Speed River to be called Goderich in honor of the colonial secretary, and, for some time, they used that name in their letters to Galt who took no notice and continued to call it Guelph until the Company gave in. It wasn't the plans that were switched, it was the names. There were no maps of Goderich at the time when the Galt/McDonald plan for Guelph was drawn up." □



Figure 2.

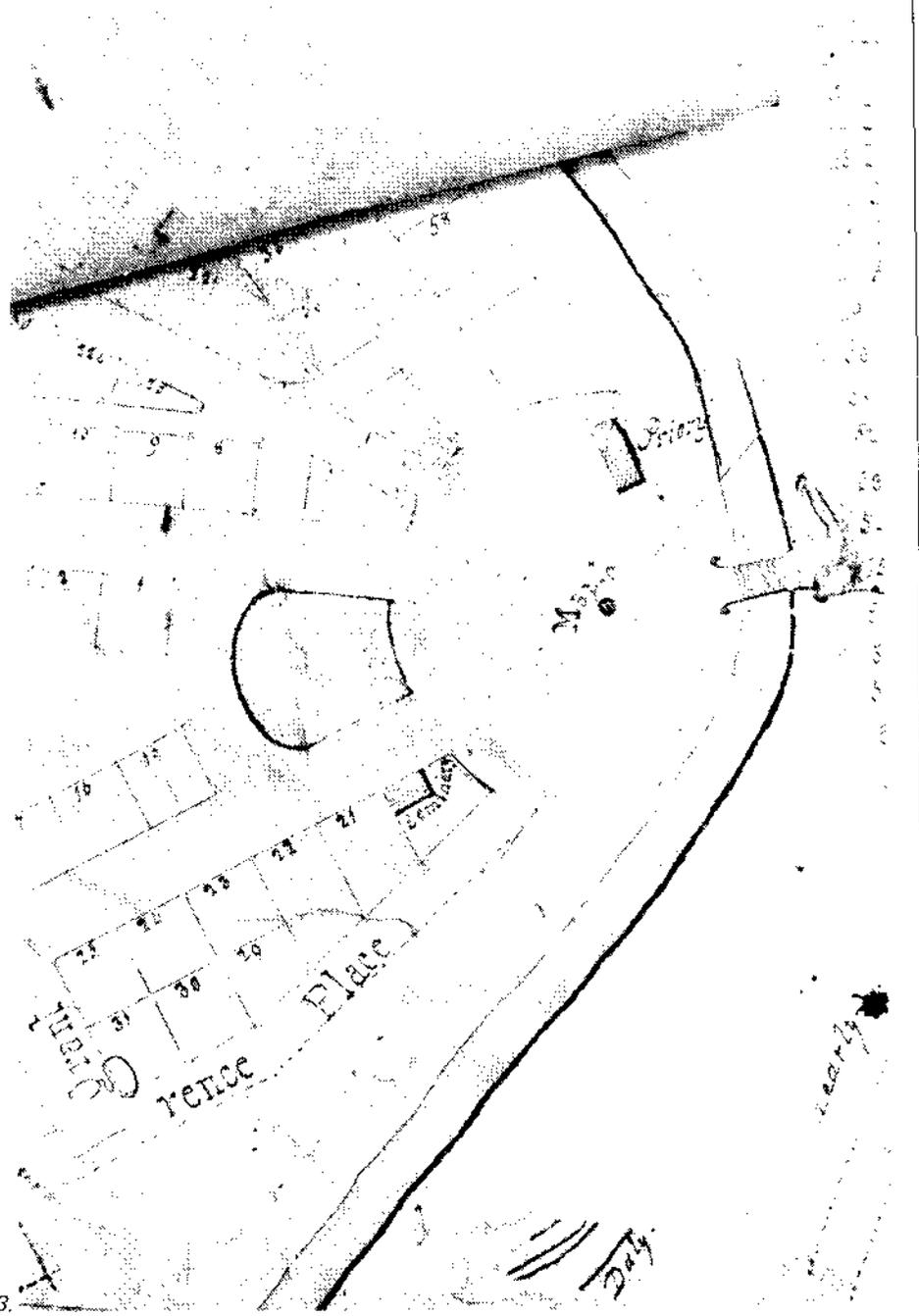


Figure 3.

Grad Studies Day March 10

Guelph's annual Graduate Studies Day is Thursday, March 10. The aim of the day is to publicize the activities of the various programs in graduate studies, inform undergraduates, and encourage inter-disciplinary discussion among graduate students and faculty members.

Displays will be set up in the Library, the foyer of the Physical Sciences building and the MacKinnon building.

The director of the Ontario Institute for Studies in Education, Dr. Bernard J. Shapiro, will be the speaker in the Post-Graduate Lecture Series Thursday, March 10 at 4:10 p.m. in Room 100, Botany/Genetics/Zoology building. He will speak on "The Federal Role in the Funding of Education — A Reflection: The Canadian and American Cases."

Dr. Shapiro has been director of OISE since 1980. Previously he was dean of the faculty of education at the University of Western Ontario and vice-president academic and provost of that university between 1978 and 1980.

President-elect of the Canadian Society for the Study of Education, he has published extensively on several aspects of education in Canada and the United States. □

Third place for OAC judging team

A four-member OAC judging team placed third in a competition including 15 teams at the College Royal of Macdonald College. The 60 contestants judged classes of livestock, grain and hay during the day.

Experts judged the teams for correctness of placings and accuracy of reasoning.

Members of the Guelph team were: Adrienne DeSchutter, London, OAC '84; Mike Lohuis, Tillsonburg, OAC '84; Paul Meyer, Belmont, OAC '85; and Brian O'Connor, Markham, OAC '84, who was the fourth highest individual in the competition. The coaches of the Guelph team were Professor Bert Christie, grain and hay, and Professor Tom Burgess, livestock.

The team representing the Nova Scotia Agricultural College (Diploma) topped the competition with a total score of 2,821 points. Ridgetown College of Agricultural Technology placed second with 2,792 points, Guelph had 2,790 points, and Nova Scotia Agricultural College (Degree) had 2,770. □

Red Cross Blood Donor Clinic

A Red Cross blood donor clinic will be held in Peter Clark Hall, University Centre, Tuesday, March 29, 10 a.m. to 12:15 p.m. and 1:45 p.m. to 3:15 p.m. □

A SPECIAL BUS TRIP to the Royal Ontario Museum to see the exhibition "The Search for Alexander" is being arranged by the Macdonald and Stewart Art Centre and the Guelph Arts Council, on Friday, April 15.

The ROM is featuring the exhibition of art from Northern Greece during the period of Alexander the Great (356 to 323 BC). There are over 90 objects, including a gold wreath of oak leaves, a gold casket and a monumental bronze vessel with scenes from the life of the god Dionysius. The show is being circulated by the Greek Ministry of Culture and Sciences, and the Toronto exhibit will be supplemented by loans from other exhibitions. Also on view at the Royal Ontario Museum at this time is "Treasures from the Tower of London: "Arms and Armor."

Tickets for the "Search for Alexander" bus tour will be available at the Art Centre and Guelph Arts Council Office after Thursday, March 10. Special arrangements will be made for those people who are interested in the "Tower of London" show. Armor aficionados are asked to call the Art Centre, 837-0010 before Tuesday, March 15 to ensure tickets.

The bus will leave the Art Centre parking lot at 1 p.m., and leaves Toronto at 5 p.m. The cost is \$14.50, which includes return bus trip and admission.

BABYSITTING is available during College Royal, sponsored by parents of the Campus Child Care Co-operative. The service will be available in the lower level of University Centre Saturday, March 12 from 10 a.m. to 4 p.m., and Sunday, March 13 from 12 noon to 4 p.m.

THE SURPLUS Department, Blackwood Hall, has desks and chairs for sale to Departments and the public. The sale is on a first-come basis and items may be viewed by contacting Dave Scott, Ext. 8139.

CITIZENSHIP orientation classes will be held at the Guelph Multicultural Centre, 128 Woolwich St., Suite 203, Tuesdays, April 5, April 12, April 19 and April 26 at 7:30 p.m. to 9:30 p.m. Classes are free. Everyone is welcome. Telephone 836-2222.

HOUSING IN CANADA, a series of seminars sponsored by the Department of Consumer Studies, features guest speaker Richard Peddie, director of planning, department of housing, City of Toronto. His talk "Issues in Social Housing in Canada," will be given Thursday, March 17 at 2:10 p.m. in Room 106, College of Family and Consumer Studies.

All members of the University community are welcome to attend. Details: Professor Chris Terry, Ext. 3780, or the Department of Consumer Studies, Ext. 2120.

THE GUELPH chapter of the Humanities Association of Canada is having a dinner at the Cutten Club, Friday, March 18 at 6:30 p.m.

Guests of honor are Elizabeth and Murdo MacKinnon. Prof. MacKinnon will give an after-dinner address about his recent Scottish sojourn.

Tickets for the dinner are \$12 for members of the Association, \$14 for non-members. Tickets may be reserved by forwarding a cheque (payable to the University of Guelph) to Mrs. Marlene Neal, Department of Drama, Massey Hall.

SHRIMP lovers will head for the Faculty Club Friday, March 11 for a member's only jumbo shrimp cocktail special. It begins at 4 p.m., and the cost is \$4.

THE THURSDAY NOON Hour Concert presents James Campbell, clarinet and John York, piano, Thursday, March 10 in two performances in Music Room 107 of the MacKinnon building.

Program I, at 12:10 p.m., includes Mozart's "Clarinet Concerto, K. 622" and Weber's "Variations, Op. 33." Program II, at 1:10 p.m., features Brahms' "Sonata, Op. 120, No. 2" and "Sonata for Clarinet and Piano" by Canadian composer, Oskar Morawetz.

Sponsored by Concert Management, the performances are free and open to the public.

A WINE-TASTING for members of the Faculty Club will be held Thursday, March 10 at 5 p.m. in the Faculty Club, level 5, University Centre. The wine is courtesy of the German Wine Information Service.

A dance for members will be held Friday, March 18, 8 p.m. to 12 midnight. Music will be provided by the "Hi Hats." The cost is \$1 per person. Food is available from 7 p.m. to 10 p.m.

EDUCATING professionals in agriculture is the focus of a colloquium on campus Wednesday, March 16. Sponsored by the OAC Committee of Faculties of Agriculture in Canada, the Office of Educational Practice and the OAC Dean's Office, the colloquium will feature three speakers beginning at 1:30 p.m. in Room 141 of the Animal Science building. University of Saskatchewan Professor B.L. Harvey will give a national perspective; OAC Dean Clayton Switzer will preview international developments, reading from a report from the Organization for Economic Co-operation and Development conference on higher education in agriculture held in Paris, France. OAC initiatives will be covered by OAC Professor Mike Jenkinson.

VIDEO ART, featuring the 13 recipients of the 1981 Creative Artists Public Service Program New York annual fellowships is featured at the Macdonald Stewart Art Centre. The exhibition, CAPS/1C1 1981 Travelling Video Festival, marks the first international tour of video art. It is sponsored by Independent Curators Inc., a New York based group.

Artists in the exhibition are Deans Keppel, Rita Myers, Ron Clark, Peer Bode, Shalom Gorewitz, David Rose, Julie Harrison, Neil Zusman, Joseph Steinmetz, Antonio Muntadas, Skip Blumberg and Verity Lund. Styles of video include "Electronic Subjectivity," "Fiction," and "Alternative Documentaries."

The exhibition runs to Sunday, March 20 on the second floor at the Art Centre. Tapes will be played upon request. There are two programs for a total running time of five hours.

Admission is free and everyone is welcome. Details: Lynn Barbeau, 837-0010.

THE CSA is sponsoring a counselling service to assist students in filing their personal income tax. Drop in at the CSA Boardroom, Room 273, U.C., before March 24 at the following times: Tuesdays, noon to 7 p.m., Wednesdays, noon to 9 p.m. and Thursdays noon to 5 p.m. This service is free to students. Details: 832-2290.

Andrews-Speed, C.P. and M.E. Brookfield, 1983. "Comments on 'Tectonic Setting for Ophiolite Obduction in Oman' by Robert G. Coleman," Jour. Geophys. Res., vol. 88: 609-611 (Land Resource Scienc@).

Campbell, J.L., 1983. "On the Concept of a Radial Dependence of Efficiency in Si(Li)X-Ray Detectors," Nucl. Instr. Meth. 204: 581-584 (Physics).

Comper, J., A. Quesnel, C.A. Fyfe and R.K. Boyd, 1983. "Experimental Study of the Structure I Clathrate Hydrate of Dimethylene Oxide by Adiabatic Calorimetry," Caned. J. Chem. 61: 92-96 (Chemistry).

Conolly, L.W., 1983. "The Methodist Church and the Theatre in Canada 1884-1925," Themes in Drama, vol. 5:53-63 (Drama).

Dijak, M. and D.P. Ormrod, 1982. "Some Physiological and Anatomical Characteristics Associated with Differential Ozone Sensitivity Among Pea Cultivars," Environmental and Experimental Botany, 22(4): 395-402 (Hort. Sci.).

Fergus, H.W., R.D. Moccia and N.E. Down, 1982. "An Epizootic of Diffuse Glomerulonephritis in White Perch (Roccus americanus) from a Heavily Polluted Industrial Basin in Lake Ontario," Vet. Pathol., 19: 638-645 (Ferguson and Moccia, Pathology; Down, Zoology).

Ferguson, H.W., M.J. Claxton, R.D. Moccia and E.J. Wilkie, 1982. "The Quantitative Clearance of Bacteria from the Bloodstream of Rainbow Trout (Salmo gairdneri)," Vet. Pathol., 19: 687-607 (Ferguson, Moccia and Wilkie, Pathology; Claxton, Biomedical Sciences).

Gaskell, R.M. and R.C. Povey, 1982. "Transmission of Feline Viral Rhinotracheitis," Vet. Rec. 111: 359-362 (Gaskell, Veterinary Medicine, Langford House, Langford, Bristol, England; Povey, Clinical Studies).

Harris, W.H., S. Yamashiro and T.P. Stopps, 1983. "The Effects of Caesarean Section Anesthesia on Heat Loss and Heat Production in the Newborn Rabbit," Can. J. Coma. Med. 47: 79-83 (Biomedical Sciences).

Herold, E.S., 1983. "The Health Belief Model: Can it Help Us to Understand Contraceptive Use Among Adolescents?," Journal of School Health 53(1): 19-22 (Family Studies).

Korabik, K., 1982. "Sex-role Orientation and Leadership Style," International Journal of Women's Studies, 5:328-336 (Psychology).

Leppmann, P.K. and R.M. Callaghan, 1982. Psychology in Action, (second edition), Lexington, Mass.:Ginn, 1982 (Psychology).

Souza Machado, V., 1982. "Inheritance and Breeding Potential of Triazine Tolerance and Resistance in Plants," in eds. LeBaron and Gressel, Herbicide Resistance in Plants, Toronto: John Wiley, 1982, 257-273 (Horticultural Science).

Waldron, Mark and M. Ceschi-Smith, 1983. "The Occupation Oriented Adult Learner," Can Journal of Univer. Cont. Ed., vol IX, no. 1: 10-13 (Continuing Education).

Siu, G.M., H.H. Draper and V.E.O. Valli, 1983. "Oral Toxicity of Malonaldehyde: A 90-day Study on Mice," Journal of Toxicology and Environmental Health, 11: 105-119 (Nutrition).

Woodside, K., 1982. "The Tax Revolt in International Perspective: Britain, Canada and the United States," Comparative Social Research 5: 147-165 (Political Studies).

Woodside, K., 1982. "The Symbolic Politics of Corporate Income Taxation . . . Canada and Britain, 1945-1980" in Alan Stone and E.J. Harpham, eds. The Political Economy of Public Policy, Sage Yearbook in Politics and Public Policy 10: 189-210 (Political Studies).

Professor R.K. Boyd, Chemistry, has just returned from a nine-day visit to the Royal Society Research Unit at University College, Swansea, U.K. This was the third visit, financed by a NATO Research Travel Fellowship awarded to facilitate collaboration between Guelph and Swansea in research in mass spectrometry. While in Swansea, Prof. Boyd presented a lecture on "Consequences of Collision Theory for Angle-Resolved Mass Spectrometry."

Professor W.T. **Dickinson**, School of Engineering, is president-elect of the Canadian Region, Soil Conservation Society of America, Ontario chapter.

Professor J.O.D. Slocombe, Pathology, presented a paper, "Effectiveness of Ivermectin Against Migrating Larvae of Strongylus vulgaris" at the British Columbia Equine Practitioners quarterly meeting held in Vancouver.

At the "I Love New York Horses Symposium" sponsored by the Cornell Student Horseman's Association in Ithaca, N.Y. he gave a paper, "Control of Parasites in Horses."

As a member of the International Development Committee of the Canadian Veterinary Medical Association, he attended a meeting of that committee with the Commonwealth Veterinary Association in Ocho Rios, Jamaica, to discuss a veterinary co-operative development project in the Caribbean. He presented a paper, "Ivermectin -- A New Injectable Parasiticide for Horses" at the British Caribbean Veterinary Association Biennial Meeting held jointly for the first time with the CVMA in Ocho Rios, Jamaica.

The School of Engineering's 15th Drainage Contractors' Conference held at London was attended by some 500 delegates. Bob Hare was chairman, as he was 25 years ago. Professor R.W. Irwin was presented with an engraved silver tray in appreciation of his work with the Association.

Prof. Irwin spoke on "Drainage Research." Professor H.D. Ayers also attended the conference.

Professor V. Souza Machado, Horticultural Science, gave an invited talk "Breeding for Herbicide Resistance" in the context of opportunities and strategies for resolving problems associated with crop protection at the 1983 Gordon Research Conference on Agricultural Science held at Ventura, California.

Professor A.G. Meiering, School of Engineering, attended the opening of the Ontario Centre for Farm Machinery and Food Processing Technology at Chatham, where he had an exhibit on fermentation control by a micro-processor. Others attending from the School were **Professors J.R. Ogilvie**, W.K. **Bilanski**, J.H.A. **Lee** and W. **Verspagen**.

Professor David Piggins, Psychology, served on a Ph.D. comprehensive examination at the school of optometry, University of Waterloo.

He also gave a talk on "Eyes-Brains -- Illusions" at Paisley Road Primary School, Guelph.

Professor Elizabeth Upton, School of Hotel and Food Administration, is serving on the dietary sub-committee of the Guelph Hospital Centre Development Committee. The purpose of the sub-committee is to recommend the optimum food service system for the proposed Centre.

Personals is a free service offered by the News Bulletin for staff, faculty and students at the University. All items must be submitted to the News Bulletin IN WRITING one week before publication

Goods and Services

Available

Pianos tuned, repaired, refinished, 837-1036.

Wanted

Set of golf clubs for tall, left-handed man, 836-3033 after 1700; ride from Kitchener (Belmont and Highland area) to U. of G. and return, weekdays, 0800 and 1630, share gas, 8768; dehumidifier, 3075.

For Sale

Panasonic Genius II microwave oven, antique oak buffet and hutch, 822-6383, evenings; portable Singer sewing machine, 823-2507; female peach-faced lovebird with cage, cast iron white tub with feet, 836-3608, evenings; solid body Gibson guitar with case and lab series L5 100 watt amplifier, 821-5635; handcrafted solid oak dining table with 8 chairs, 836-3222, evenings; 1980 Jawa 350 motorcycle, 856-4049 after 1800.

Accommodation

For Rent

Florida apartment, Fort Myers Beach, April 9-16, 8157; furnished 3 bedroom house, Aug./83

to July/84, 2488; furnished room in townhouse, summer only, 836-3628; unfurnished 3 bedroom condo, available May 1, 1983, 821-9167; furnished 3 bedroom house, Aug. 15, 1983 to Aug., 1984, 3537; 2 bedroom townhouse for married students, May to Aug., 824-6563.

Wanted

Veterinary clinician, wife and 2 children on one month's exchange from Saskatoon require accommodation in Guelph from mid-April to mid-May or during May, apartment, house or townhouse, 836-9983.

Clerk, Animal Care Services. Temporary part-time commencing March 28, 1983. Salary: \$5.80 per hour.

Staff Auditor, Internal Audit Department.

Hiring range: \$18,962.00 - \$22,754.00.

Secretary, Computing and Information Science. Salary range: \$234.58 - \$333.31. Open to on-campus employees only.

Administrative Secretary, Political Studies. Salary range: \$267.14 - \$384.20. Open to on-campus employees only.

Next Week at Guelph

THURSDAY, 83 03 10

Graduate Research Seminar - EFFECT OF SUSPENSION SOLID KOALIN ON SALMONID GILLS, S.A. Goldes, 1100, Pathology 220.
Faculty Association - EXECUTIVE MEETING, 1200, Board Room, Faculty Club, UC level 5.
Noon Hour Concert - JAMES CAMPBELL AND JOHN YORK, clarinet and piano, 1210 and 1310, MacK107.
YM-YWCA - BOOK SALE, 400 Speedvale E.
Worship - CATHOLIC MASS, 1700, chapel, level 5, UC.
Apiculture Club - BEEKEEPING IN PANAMA AND COSTA RICA, Dr. Gard Otis, 1710, Graham Hall, Rm 200.
Careers and Jobs - JOB SEARCH WORKSHOP, 1800, register at the Connection Desk by 1500.
Video Show - MALAYSIAN STUDENT ASSOCIATION, 1900, UC103.
Spotlight on the University of Guelph - 1900, cable 8.
Inter Varsity Christian Fellowship - PRAISE MEETING, 1900 AS141.
College Royal - CURTAIN CALL, 2000, WMH.
Wine Tasting - FACULTY CLUB, members only, 1700, level 5, UC.
Graduate Studies Day - THE FEDERAL ROLE IN THE FUNDING OF EDUCATION -- A REFLECTION: THE CANADIAN & AMERICAN CASES, Dr. B.J. Shapiro, OISE, 1610, Rm 100 BGZ.

FRIDAY, 83 03 11

College Royal - DOG & MUTT SHOW, 1830, AC; FASHION SHOW, 2000, PCH; CURTAIN CALL, 2000, WMH.
Book Sale - YM-YWCA, 0900, 400 Speedvale Ave. E.
Faculty Christian Fellowship - 1200, Johnston Hall 157.
Worship - ANGLICAN EUCHARIST, 1700, Johnston Hall 158.
Friday Flix - CINDERELLA, 1900 and 2115, PS105.

SATURDAY, 83 03 12

College Royal - OPEN HOUSE, 0900; FLY DAYS, 0900; LIVESTOCK SHOW, 0900, AC; SEED & FORAGE SHOW, 0900, Crop Science; JURY SHOW, 0900, McLaughlin Library; FLOWER ARRANGING, 0900, Hort Sci; SYNCHRONIZED SWIMMING, 1000 and 1430, AC pool; PERFORMING DANCE GROUP, 1100, AC gym; CAMPUS BUS TOURS, 1100; OFFICIAL OPENING, 1300, PCH; RESIDENCE TOURS, 1300 and 1500, UC display area; SQUARE DANCE COMPULSORIES, 1530, AC gym; CAT SHOW, 1400, OVC; FASHION SHOW, 1600 and 1930, PCH; AWARDS NIGHT, 1830, AC gym; SQUARE DANCE OPTIONALS, 2000, AC gym; CURTAIN CALL, 2000, WMH.
Book Sale - YM-YWCA, 0900, 400 Speedvale Ave. E.
Maple Syrup Exhibit - ARBORETUM, 0930.

SUNDAY, 83 03 13

Worship - CATHOLIC MASS, 1000, PCH; CAMPUS CHURCH SERVICE, 1030, PS113; ANGLICAN-UNITED, 1630, UC441.
Exhibit - MAPLE SYRUP EXHIBIT, 0930, J.C. Taylor Nature Centre, Arboretum.
College Royal - OPEN HOUSE, 1100; FLY DAYS, 1100; OLD MACDONALD'S FARM, Old Dairy Barn, 1100; SEED & FORAGE DAYS, 1100, Crop Science; JURY SHOW, 1100, McLaughlin Library; FLOWER ARRANGING DISPLAY, 1100, Hort Sci; WOODSMEN COMPETITION, 1100, South of AC; CAMPUS BUS TOURS, 1100; RESIDENCE TOURS, 1300 & 1500, UC display area; FASHION SHOW, 1330 and 1530, PCH; CAT SHOW, 1400, OVC.
Sunday Cinema - BLADERUNNER, 1900, WMH.
International Cinema - LES BONS DEBARRAS, 2000, PS105.

MONDAY, 83 03 14

Liberal Education Series - LIVING IN A NO-GROWTH SOCIETY: THE ETHICAL DIMENSION, Prof. Tom Settle, 1210, UC442.
Spotlight on the University of Guelph - 1830, cable 8.

Theology from Experience - VOCATION -- IN CONTEMPORARY CHRISTIANITY?, Bernard Carol S.J., 1930, UC334.
Careers and Jobs - INTERVIEW SKILLS CLINIC, 1700, register at the Connection Desk by 1500.
Guelph International Centre - CHILDREN OF BABYLON, 1930, WMH, tickets at the UC box office.
Public Lecture - HOW TO USE FRACTALS TO INVESTIGATE THE MOUNTAINS AND THE CLOUDS AND TO CREATE WILD AND BEAUTIFUL NEW SHAPES, Prof. B. Mandelbrot, IBM, New York, 1930, Ag. Ec. 102.

TUESDAY, 83 03 15

Worship - CATHOLIC MASS, 1700, chapel, level 5, UC.
God, Man and World - 1700, UC334.
Careers and Jobs - INTEREST TESTING, 1300, register at the Connection Desk by 1100; JOB SKILLS, 1800, register at the Connection Desk by 1500; RESUME WRITING, 1800, CSRC.
Audubon Wildlife Films - WILD AND WONDERFUL ALASKA, Ken Creed, 2000, WMH, tickets at UC box office.
Biological Science Lecture - THE CILIATES -- SIMPLY COMPLEX CELLS? Dr. Denis Lynn, Zoology, 2000, UC103.
Psychology Colloquium - WHERE IDEAS ABOUT GENERAL INTELLIGENCE GO WRONG, Prof. John Horn, U. of Denver, 1530, UC103.

WEDNESDAY, 83 03 16

Worship - ANGLICAN EUCHARIST, 1200, Johnston Hall 158; CATHOLIC MASS, 1200, chapel, level 5, UC; IMMANUEL FELLOWSHIP, 1900, AS141; CHRISTIAN DOCTRINE CLASS, 1700, UC333; CATHOLIC PRAYER GROUP, 1700, chapel, UC, level 5.
Careers and Jobs - CHOICES: INTRODUCTION, 1600, register at the Connection Desk by 1500.
Film - GUATEMALA VENCEREMOS, 1930, UC103.
Staff Development Opportunities - SAFE HANDLING OF CHEMICALS IN RESEARCH AND TEACHING LABORATORIES, 1315, UC103; EVERYTHING YOU WANTED TO KNOW ABOUT PUBLICATIONS BUT WERE AFRAID TO ASK, 1315, UC442, Ext. 3058 for details.
Continuing Education - ART FOR AMATEURS AND CONNOISSEURS, 1930, TBA, Ext. 3956 to register.
Math and Stats Colloquium - SOME NONRANDOM FRACTALS: THEIR CONSTRUCTION (EXEMPLIFIED BY KLEINIAN GROUPS) AND THEIR NEW USES IN PHYSICS, Prof. B. Mandelbrot, IBM, New York, 1600, PS203.
Colloquium - EDUCATING PROFESSIONALS IN AGRICULTURE, 1330, Animal & Poultry Sci 141.

THURSDAY, 83 03 17

Graduate Research Seminar - AN IMPORTANT CORONA VIRUS INFECTION IN THE LABORATORY RAT, P.E.A. Hanna, 1100, Pathology 220.
Noon Hour Concert - GLYN EVANS AND NORBERT KRAFT, tenor and classical guitar, 1210 and 1310, MacK107.
Housing in Canada - ISSUES IN SOCIAL HOUSING IN CANADA, Richard Peddle, 1410, FACS106.
Worship - CATHOLIC MASS, 1700, chapel, level 5, UC.
Apiculture Club - BEEKEEPING IN TRINIDAD AND TOBAGO, M.K.I. Hallim, 1710, Graham Hall, Rm 200.
Inter Varsity Christian Fellowship - STAR POWER, 1900, AS141.
Continuing Education - INTERVIEWING SKILLS, L. Geluch, 0900, Ext. 3956 to register.
Spotlight on the University of Guelph - 1900, cable 8.
Concert - UNIVERSITY OF GUELPH CIVIC ORCHESTRA, 2000, WMH, tickets at UC box office.
Math & Stats Colloquium - RANDOM FRACTALS: SOME EXAMPLES AND CASE STORIES OF CUSTOM FILLING TO DIVERSE ASPECTS OF NATURE, Prof. B. Mandelbrot, IBM, New York, 1600, PS203.

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