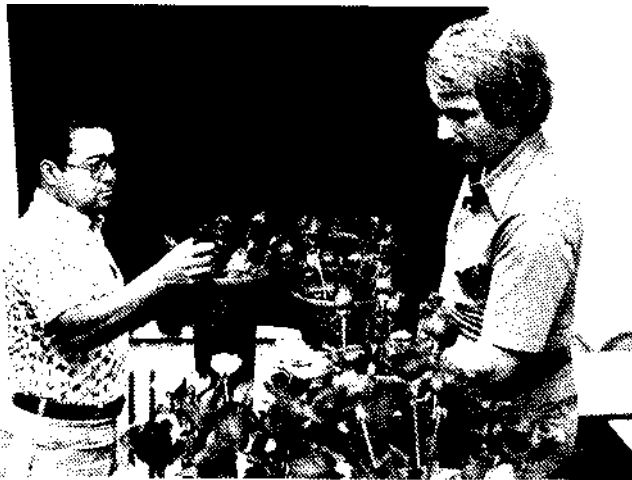


Longer life for cut flowers

The Guelph solution



Profs. Tsujita, left, and Murr examine roses in different solutions.

Guelph scientists are seeking the fountain of youth in a new form. They are trying to prolong the life of cut flowers. Every home gardener appreciates the ephemeral quality of freshly cut roses, delphiniums or peonies, but for people in the industry, the postharvest life of flowers is a serious consideration.

Professors M.J. Tsujita, D.P. Murr, Horticulture, and graduate student T. Venkatarayappa have developed what they call the "Guelph solution" for cut flowers. Many commercial products exist to prolong the life of flowers without adversely affecting the form, shape or color of the bloom, but the Guelph product is superior on some counts. The researchers have found the Guelph solution to be the best preservative available for carnations, prolonging their shelf life from six or eight days to 14. It is also a very good preservative for gladioli, snapdragons and mums, and as good as the best on the market for roses.

The Guelph solution seems to prolong the shelf life of all cut flowers. Although many questions remain to be answered, graduate student T. Venkatarayappa has completed an intensive study of the effect of the solution on "Samantha" roses, a popular commercial variety. He found that the solution increased the rate of water uptake as well as the total amount of water absorbed, hence prolonging shelf life. The researchers do not yet know exactly how water uptake is improved by the solution. To find out, they will study the

effect on what Prof. Tsujita describes as the "plumbing system" of the stem.

The research began three years ago when a group of California scientists with whom Prof. Murr was associated found that certain trace elements inhibit the synthesis of ethylene. Since cut roses and chrysanthemums produce a lot of ethylene as they open, Prof. Murr thought that incorporation of one or more of these trace elements into an opening solution might delay opening and make the flowers last longer. In research which he conducted with Prof. Tsujita at Guelph it was found that, in fact, the flowers opened faster and lasted longer. In experiments with roses they found that the shelf life could be tripled by using the Guelph solution. Roses which often develop bent neck and blueing of petals soon after cutting, remained straight of stem and clear of color in the Guelph solution.

Much work remains to be done on the solution itself and also on other aspects of commercial flower marketing. The Guelph professors are making reports to growers who keep them supplied with armfuls of roses for research. They are able to advise on cooling methods for storage and shipment as well as on preservatives.

The research has important implications for flower growers and florists. A solution that prolongs the life of flowers prevents shelf losses at the retail level. And roses that last 10 to 14 days rather than six to eight can not help but make the consumer happy. □

Autumn Days at the Arboretum

The Arboretum is holding open house Saturday, October 20 called "Autumn Day at the Arboretum." Admission is free. Staff and volunteers will be available beginning at 10 a.m. to guide visitors along the numerous trails and explain the various collections of plant specimens around the 336-acre site. The Arboretum Centre will feature a display of autumn colors and Arboretum staff will be on hand to explain the phenomenon.

In the J.C. Taylor Nature Centre visitors can view the collections of flora and fauna which have been painstakingly preserved by naturalist Alan Watson and his staff and take a nostalgic look at stuffed birds and animals from a bygone era. One display case, thought to date back to 1840, features a now extinct passenger pigeon.

As part of the program, the Department of Music has arranged for a concert by the 1979 CBC Talent Festival winner, classical guitarist Norbert Kraft, to entertain visitors. His concert is at 2 p.m.

Parking is available at the Arboretum Centre and at the Ring Road entrance. Transportation will be provided from the bus stop and parking lot on the Ring Road to the Arboretum Centre.

The Arboretum trails are, of course, open all winter to snowshoeing and cross-country skiing enthusiasts. The J.C. Taylor Nature Centre is open every weekend from 9 a.m. to 4 p.m.

The open house concept will continue February 2 with a program similar to last January's "Flakes, Flumes and Flutes." On April 5 the Centre will host a Maple Syrup Festival. All three programs are held in cooperation with the Music Department and each will have an interesting music program.

The programs, says Mr. Watson, are to acquaint citizens with the Arboretum and to show them that there is much to be gained from its collections and various activities. The staff is always available to answer questions, he adds. More information may be obtained by calling Ext. 2113 or 3932. □

THE MERRY ORGAN concerts in Chalmers Church, Guelph, begin Sunday October 21 at 4 p.m.

The McMaster Quartet of Hamilton launches the series. The program includes quartets by Beethoven and Schubert and the Brahms piano quintet with Valerie Tryon.

Subscriptions are available at the central box office in the courtyard of the University Centre.

GOLD, the Guelph Organization for Learning and Development, is presenting a conference for the general public entitled "Looking Forward to the Eighties — What We Need to Know About People" Saturday, October 20, 8:30 a.m., in the Physical Sciences building.

Topics will include better communications with adolescents and children, improving skills in working with others, and learning the basics of Adlerian Psychology. Registration is at the door. For more information contact G. Sansom, 853-1703.

THE THURSDAY NOON CONCERT features the Piano Trio Berlin October 18, in two concerts at 12:10 and 1:45 p.m. in Music Room 107 of the Arts building.

Piano Trio Berlin was founded by Horst Gobel over 10 years ago. The members of the group are Hans Maile (violin), Rene Forest (violin) and Horst Gobel (piano).

The Guelph program is Haydn's "Trio in G Major" (Hoboken XV, No. 25); Schonberg's "Petrarch Sonnet No. 217" (1924); Blacher's "Trio" (dedicated to Piano Trio Berlin); Block's "Three Nocturnes" and Beethoven's "Trio in D Major, Op. 70, No. 1".

A **CONCERT** to aid the Indo-Chinese boat people refugees will be held Sunday, October 28 at 8 p.m. at St. Andrew's Presbyterian Church, corner of Norfolk and Suffolk Streets, Guelph. The concert features

Harshman Lecture

The J.P. Harshman Lecture has been established as a public lecture to be given on an annual basis.

The lecture honors the late Dr. J.P. Harshman and recognizes his contribution to the College of Family and Consumer Studies as chairman of the Harshman Foundation. The Harshman Foundation has played an important role in the development of the College, enriching its programs through funding for visiting professors, continuing education programs and undergraduate and graduate scholarships.

The 1979 Harshman Lecture will be given by Marie-Josée Drouin, Director of the Hudson Institute of Canada, Wednesday, November 7 at 8 p.m. in War Memorial Hall. Miss Drouin's topic will be "The Future Facing the Canadian Family." In her lecture she will consider the impact of social, economic and technological developments on the Canadian family of the future. □

Norma Farris, contralto, Stella Kerson, piano, Lois Lanneval, organ, and Ron Read, lute.

Admission is \$3 (general), \$2 for students and senior citizens. For more information contact George Smith, Animal and Poultry Science, Ext. 2724.

Conference promotes appreciation of rural roots

Today's historians emphasize Canada's urban past, yet this is a distorted view according to History professor Terry Crowley. "Until the 1920's the majority of Canadians lived in rural areas," he explains. "While rural people no longer have the same demographic clout or political influence, farming and rural society in Ontario are still extremely important to the province and the country."

To encourage wider appreciation of Ontario's agricultural roots among interested laymen and historians, Prof. Crowley and his colleague, Professor Ross Irwin, School of Engineering, organized a one-day conference in 1976. Now well-established as an annual event, the fourth "Agricultural History of Ontario" conference will be held on campus Saturday, October 27.

A broad range of subjects, including social and economic structures, education and dress, is covered by this year's five invited speakers. Leonard Harman, former general manager of the United Co-operatives of Ontario, will speak on co-operatives. Early rural women's organizations, such as the Women's Institute, will be discussed by Dr. Margaret McCready, former dean of Macdonald Institute, the predecessor to the College of Family and Consumer Studies. Historian Felicity Leung will present a pictorial look at flour and grist mills from 1790 to 1880's.

The afternoon session features a talk on 19th century schools and communities by University of Western Ontario's R.D. Gidney and W.P. Millar. Katherine Brett, curator emeritus of the Royal Ontario Museum, will review the costumes of rural Ontario.

Information and pre-registration forms are available at local museums and from the Office of Continuing Education, Ext. 3956. □

THE FACULTY CLUB executive for 1979/1980 has been named. Pat Tucker, Grounds, is president; Fred Vaughan, Political Studies, vice-president; Jim Bates, internal auditor, treasurer, and Jim Hunt, Physics, secretary.

New members to the Board of Directors are Keith Cassidy, History; Tony Marston, Hotel and Food Administration; George Edwards, Accounting, and Prof. Vaughan.

"FLYING SAUCERS are Real," is the title of a lecture by nuclear physicist, Stanton T. Friedman at 12:10 p.m., Monday, October 22 in Peter Clark Hall, University Centre. The program is open to the public and is being sponsored by the University Centre. Admission is free.

J.S. McLean Lecture

Max E. Brunk, professor of marketing at Cornell University, will give the 1979 J.S. McLean lecture Tuesday, October 23 at 8 p.m. in Room 113 of the Physical Sciences building. He will speak on "The Rise and Decline of the Great Hamburger Society."

Professor Brunk, who completed his undergraduate work at the University of Florida and graduate work at Cornell, was appointed to the Cornell staff in 1947 and made a full professor in 1951.

Prof. Brunk teaches marketing courses at Cornell and supervises an extensive research program dealing with agricultural products. He also serves as marketing consultant to many food companies, agricultural organizations and trade associations. Prof. Brunk is the recipient of many national awards including the 1965 American Farm Bureau Award for Distinguished Service to American Agriculture.

Many of Prof. Brunk's talks before the American Meat Institute have been published in book form. An honorary trustee and member of the board of governors of the Livestock Merchandising Institute, he has worked with livestock interests in Australia and other parts of the world.

The J.S. McLean lecturer appeared in Canada as the Klinck Lecturer in 1975, the same year he served as chairman of the first International Meeting of Livestock Producers held in Bermuda.

Admission to the lecture is free. □



Ada Testaferri and Adnan Gokcen, Department of Languages, flank visiting speaker Signor Giorgio Bassani.

One of Italy's most distinguished writers and author of the book, *The Garden of the Finzi-Continis*, Signor Giorgio Bassani was at the University recently to give a lecture.

Signor Bassani's book was later made into a much-acclaimed film. The author, however, took issue with the film director's interpretation. He took the matter to court and his statement to the judge about his book, entitled "Il Giardino Tradito," was also the topic of his address at Guelph. Signor Bassani was on campus for one afternoon during a visit to Toronto where he was giving a series of talks. □

Chinese social scientist to give lecture

One of China's leading social scientists and director of the Institute of Sociological Research, Professor Fei Xiaotong (Fei Hsiao-tung), will be the short-term visiting professor in the Department of Sociology and Anthropology from Friday, October 19 to November 2.

Prof. Fei is a world-renowned social anthropologist who has devoted a lifetime of research, writing and teaching to the scientific study of Chinese rural society. His pioneering, seminal studies of the Chinese peasantry and rural gentry published in the 1940's remain today standard references for scholarly investigation of China's village life for Chinese scholars all over the world. He has contributed many articles to scholarly journals in North America, notably the American Journal of Sociology.

He recently delivered a paper on "The Social Transformation of China's National Minorities" at an international symposium sponsored by the United Nations' University on "Intellectual Creativity in Endogenous Culture" held in Kyoto.

After the founding of the People's Republic of China in 1949, Dr. Fei continued his research in the now rapidly changing countryside of China. He gradually turned the focus of his studies to the national minorities and travelled extensively to gather data for voluminous ethnological studies on the different national minorities with their varied social and cultural characteristics.

During the heyday of the ultra-left, he was severely criticized and called a "rightist." He continues to be actively involved in research as professor at the Central Institute for Nationalities, and deputy director of the Institute of Nationalities under the Chinese Academy of Social Sciences.

Born in 1910 Prof. Fei obtained his B.A. at Yenching University in 1933 and an M.A. at Tsinghua University. He later went to England where he pursued graduate studies at the London School of Economics, Univer-

sity of London. He obtained his doctorate in sociology in 1938.

Prof. Fei will deliver a public lecture entitled "Modernization and the Chinese Peasantry," Tuesday, October 23 at 8 p.m., in Room 107 of the Arts building. He will also participate in a panel discussion, "Issues of Social and Technological Change," Wednesday, October 31 at 8 p.m., in Room 029 of the Arts building. Other participants in this panel discussion will be Professor Gerald Gold, department of anthropology, Yale University; Professor Martin King Whyte, department of sociology, University of Michigan and Professor William Foote Whyte, School of Industrial and Labor Relations, Cornell University and president-elect of the American Sociological Association. □

THE NEXT social event of the Faculty Club is a wine tasting and fashion show November 22 beginning at 8 p.m. in the level 5, University Centre lounge. The wines are by Chateau Gai and the fashions are by Helen's of Guelph. Tickets are \$4 per person.

The children's Christmas party has been set for December 8, and the members' Christmas Dance for December 15.

PROFESSOR MAHMOUD SADEK, Department of Fine Art, will deliver public lectures about the Egyptian King Tutankhamun as an introduction to the exhibition at the Art Gallery of Ontario, Toronto, in November and December. One lecture was held October 17, but two more lectures will be held on Wednesday, October 24 and Wednesday, October 31 at 8 p.m. in Room 105 of the Physical Resources building.

Prof. Sadek, who has taught ancient art and archeology at the University of Guelph since 1970, has also taught in Cairo and is very familiar with the art and artifacts which will be shown in the Tutankhamun exhibition.

All lectures are free to the public and everyone is welcome to attend. For further information call the Curator of Art, Ext. 3158 or the Department of Fine Art, Ext. 2413.

AUCC protests CTV broadcast

A recent CTV program investigating the presence of foreign students in Canada contained many "distortions and inaccuracies," the Association of Universities and Colleges of Canada has charged.

A protest has been filed by the AUCC with the president of the CTV network and the producers of its "W5" show. The program in question was aired Sunday, September 30.

Host Helen Hutchison claimed that "thousands of Canadians are being kept out of our universities by foreign students," particularly in such subjects as engineering, medicine, pharmacy and computer science.

"The program was built around a particular case which was entirely unfounded," stated Alan Earp, president of Brock University (St. Catharines) and current president of the AUCC.

Much of the problem, the AUCC states, lies in confusion between landed immigrants and those with student visas. Under Human Rights Legislation, landed immigrants cannot be differentiated from Canadians for the purposes of university admission. Visa students account for less than five per cent of the total enrolment in Canadian universities.

"There are similar distortions and inaccuracies in other examples and figures used by 'W5'," Dr. Earp stated. "In the interests of fairness and accuracy, some correction is essential." Rather than hiding enrolment figures, as was alleged by the CTV program, the universities have made available a detailed analysis of the admissions question in a recent report titled Citizenship of Students and Faculty in Canadian Universities, prepared by the Council of Ontario Universities for the Association. □

IF YOU KNOW of anybody in London, England, who would like to rent rooms to students on the London Semester (January to April, 1980/1, please forward the name and address to Professor Neil Carson, English, Ext. 3230.

Carling O'Keefe scholarships were presented to 11 outstanding students in the Hotel and Food Administration degree program October 10.

Entrance awards were presented to Janet Lilliman of Winona and Brian Galea of Etobicoke. First year awards went to Donna Jaques of Harrow, Charlene Wagler of Shakespeare and Muneer Hirji of Winnipeg. Second year awards were given to Judy Wybenga of New Brunswick, Catherine Jones of Don Mills and Leslie Laviolette of Ann Arbor, Michigan. Third year recipients were Jeffrey Davidson of Toronto, Sheila Hunter of Callander and Karen Van Schie of Hagersville.

The awards were made by Doug Lloyd, manager, public relations, Carling O'Keefe Breweries of Canada Limited. □



Carling O'Keefe evening: left to right, Mr. Lloyd, Ms. Wybenga, President Forster, Ms. Van Schie, Mr. Hirji and Prof. T. Powers, Director of the School of Hotel and Food Administration.

How to beat the high cost of electricity

Ever since the University was informed of a rate increase from Guelph Hydro which will boost our \$1.5 million annual bill by another \$130,000, Physical Resources people have been studying ways to further reduce the high cost of electricity.

An important factor in determining the amount Guelph will pay for electricity is the time of the day that we use it. The rate structure applied to the University is entirely different from the one applied to a domestic account, explains Bob Davis of Engineering Services. It is composed of two elements — a charge for maximum monthly rate of electrical demand and a charge for electrical consumption. The demand charge imposes a large penalty for a high rate of electrical demand. Traditionally, demand peaks at the University occur between 11:30 a.m. and 4:30 p.m. The peaks tend to be later in the afternoon during the shortest days of the year, in November and December, and coincident with the hottest part of the day in the summer when air conditioning load is a factor.

A good analogy is to compare the use of electrical power to the flow of water in a river, says Mr. Davis. Peak demand is equivalent to the highest flow level the river reaches, while consumption is the total amount of water which flows during a specific period. An example which illustrates the effect on Guelph's billing is the use of the electric kettle: the average kettle heating element uses about 1,500 watts. When this kettle is plugged in coincident with our highest peak demand for the month, there will be a charge of over \$8 for demand and approximately one-quarter of a cent for consumption to boil its contents. If, however, the kettle use is not coincident with the maximum demand, only the charge of one-quarter of a cent applies. "It is easy to see that it does not matter so much how long it is plugged in, but when," Mr. Davis emphasizes. Mr. Davis adds that if we were able to pick exact times of maximum demand the problem would be easy to solve, but this is not possible. However, some close predictions can be made.

There are many ways in which we can help to avoid a high demand billing where large costs can be incurred for very little value received:

- Over the last year, two-thirds of our peaks occurred between 1:45 p.m. and 4:15 p.m., and the remainder between 11:30 a.m. and 12 noon. Anything we can do to avoid imposing additional load at this time will help, particularly during dark, cold winter days or very hot summer and fall days.
 - Work involving the use of electrical motors, ovens, or imposing additional electrical load should be, if possible, completed early in the morning.
 - If artificial lighting is required in the morning, do not leave it on until the end of the working day. If a piece of equipment or lighting is not required, switch it off.
 - In the warmer months, raising the temperature setting on a window air conditioning unit when you are out of your room, or an hour before the end of

each day, reduces an electrical load without imposing much temperature increase. Even cycling electrical equipment such as glass washers to operate during lunch break helps.

- Growth cabinets and growth rooms should be scheduled so that the day cycle does not coincide with the peak demand.

During periods of peak electrical draw the staff of Physical Resources attempts to reduce the loading in a number of ways. In extreme cases the University's emergency diesel generators are used to support part of the load. Where possible, fan systems and process equipment are shut down. Users can also do their bit by turning off unneeded lighting, exhaust hoods, fans or motors during those peak hours. □

Universities shave off \$15 million energy costs

Since the start of their energy management programs Ontario's 15 universities and one polytechnical institute have realized savings of more than \$36 million.

A report from the Ontario Association of Physical Plant and Planning Administrators reveals that in the last four-year period, when unit energy costs have increased by two-thirds, the Ontario universities' energy use per unit of space has been reduced by a third. This reduction has been achieved in the face of 8 per cent to 13 per cent higher average levels of degree days when cold weather makes heating necessary.

In 1978-1979 energy savings represented a cost avoidance of more than \$11 million. Heating and cooling costs were an average of \$70 per full-time student.

The energy management programs, some of which were begun in 1970, have profited by the exchange of information among individual universities, government bodies, suppliers and other institutions.

University buildings are occupied an average of 3,500 hours per year, while commercial office space is occupied about 2,800 hours. Both this efficiency of utilization and the combined energy savings are indicative of universities' management skills in the present period of fiscal constraint, says the report. □

BRIEFLY

SLIDES AND A TALK on Sierra Leone will be given by a return volunteer at a CUSO information meeting, Monday, October 22 at 7:30 p.m. in Room 442 of the University Centre. The meeting provides an opportunity to find out what it is like to work overseas with CUSO.

THE FALL MEETING of the Rhododendron Society of Canada will be held Sunday, October 28 at the Arboretum Centre. Registration begins at 1 p.m. Admission is free and all are welcome.

THE NEXT regular meeting of Senate is scheduled for Tuesday, November 20 at 8 p.m. in Room 113 of the Physical Sciences building. The October 16 session was cancelled.

JOB OPPORTUNITIES

Electrician, Maintenance. Job rate \$8.20. Probation rate \$.20 per hour lower than job rate.
Grounds Machinery Operator, Grounds Department. Probation rate \$.20 per hour lower than job rate. Job rate \$6.44.
Purchasing Clerk, Purchasing Department. Clerk II. Salary range \$182.24 - \$264.67.
Secretary to the Vice-President, Academic. Executive Secretary II. Salary range \$235.72 - \$339.44.
Library Assistant I, Document Coding, Library. Salary range \$132.95 - \$189.13 (under review).
Library Assistant II, Acquisitions, Library. Salary range \$157.60 - \$225.25 (under review).
Technician, Land Resource Science. MTS IV. Salary range \$221.96 - \$319.62 (under review).
Administrative Secretary, Department of Medical Services. Salary range \$198.96 - \$287.58.
Custodian 2, Housekeeping. Job rate \$5.67. Probation rate \$.20 per hour lower than job rate.
Programmer (three positions), Administrative Systems and Programming. Salary commensurate with qualifications and experience.

For further information please see bulletin boards or call Ext. 3058 or 3059.

GOMOKU anyone?

While chess is clearly the most popular game being played on the computer today, in second place and climbing steadily is the game of GOMOKU. GOMOKU, whose history goes back more than 2,000 years, is basically a game of Tic-Tac-Toe. Very popular in China and Japan, it is played on a 19 unit x 19 unit board similar to the GO board. The object of the game is to place five men in a row: vertically, horizontally or diagonally. The first player to get five-in-a-row wins.

The most popular North American GOMOKU tournament is being run at the University's Institute of Computer Science by Dr. Shein Wang. Begun in 1975, the Guelph tournament grows more popular every year.

Contestants are attracted to GOMOKU because of the ease with which it can be programmed, using any kind of computer and any language, says Dr. Wang. Computer GOMOKU programs have been written in PL/1, FORTRAN, Assembly, BASIC, ALGOL and APL. The current North American GOMOKU champion is a PL/1 program written by Michael Compton of Ottawa.

Anyone interested in writing a GOMOKU program or wishing to join the North American tournament, should contact Dr. Wang, Academic Computer Services, Ext. 3702. □

THE FACULTE SAINT-JEAN, a multi-disciplinary faculty of the University of Alberta providing an undergraduate education in a French-language environment, seeks a dean. Candidates should have appropriate academic qualifications, be fluent in the English and French languages and be sensitive to the needs of the French-Canadian community.

Written nominations, or applications, accompanied by a *curriculum vitae*, should be forwarded to: Dr. W.F. Allen, Vice-President, (Academic), The University of Alberta, Edmonton, Alberta, T6G 2J9.

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Head nurse

Jan Keller, who has joined Medical Services as head nurse, finds her position a stimulating change from her former role as community health nurse with the Waterloo Regional Health Unit.

At the Health Unit her focus had been family-oriented, dealing with the health needs of individuals ranging from infancy to the elderly. On campus, working with a student population in a university environment, she practises a blend of treatment and preventive health care.

One of the challenges, says Nurse Keller, is to establish a therapeutic relationship with the students, allowing them to accept guidance on health care as well as helping them to deal with psycho-social problems.

Mrs. Keller hopes to initiate an increased awareness of Medical Services's preventive health care in areas such as nutrition, fitness and health education. She finds, for example, that some students know little about the basics of nutrition or how to look after a cold, because that was all done for them at home. With some information and counselling related to basic health practices students could become much more independent in these matters, she believes.

Mrs. Keller is responsible for co-ordinating the nursing division which includes five full-time and four part-time nurses. She is in the clinical area of Medical Services providing services primarily to students and including faculty and staff on an emergency first aid basis. She is also involved in the infirmary aspect as well as on-going allergy, immunization and pre-exposure rabies programs.

A graduate of Victoria Hospital in London, Ontario, Mrs. Keller received a Bachelor of Science in Nursing degree from the University of Windsor. While she enjoys sewing and summer sports, Mrs. Keller finds that her young son Benjamin is her primary "hobby" at the moment. Her husband, Tony, is a lawyer in Kitchener. □

First production is Jacobean satire



The Department of Drama's production of *A Chaste Maid in Cheapside*.

As its first production of the season, the Department of Drama will present Thomas Middleton's satirical comedy *A Chaste Maid in Cheapside*, a major play of the Jacobean period lit was written in 1613) which is all too rarely revived today.

In a program note the director of the production, Professor Paul Mulholland, writes: "Like his previous comedies, *A Chaste Maid in Cheapside* is heavily satiric in its vision; it also re-examines essentially the same themes and targets: avarice and lust in a variety of forms. The world depicted is one of inverted values where vice and corruption are the norm . . ."

Allan Watts, the designer of the production, has devised for the Inner Stage theatre a setting that makes use of some of the devices, proportions and physical relationships of the Elizabethan-Jacobean theatre. These

include a permanent set of architectural aspect, with playing areas at different levels capable of being used to represent many different localities in swift succession. This gives the essential quality of rapid movement from one scene of the play to the next, allowing the complex and swift-moving action to flow uninterruptedly across the stage.

Along with 19 Drama students, the cast of the play also includes two members of the Department of English, Professor Gerald Manning, who will play the harpsichord entr'actes, and Professor Marshall Matson, who plays the part of Sir Walter Whorehound.

The production opens Wednesday, October 24 at 8 p.m. and will play for the rest of that week, October 25, 26 and 27, also at 8 p.m. Tickets, at \$2, may be obtained from the central box office in the courtyard of the University Centre. □

SCANDINAVIAN SEMINAR is accepting applications for its 1980-1981 academic year abroad in Denmark, Finland, Norway or Sweden. This unique learning experience is designed for college students, graduates and other adults who want to study in a Scandinavian country, become part of another culture and learn its language. The fee, covering tuition, room, board and all course-connected travels in Scandinavia, is \$4,900. Interest-free loans are granted on the basis of need, as are a few partial scholarships. For further information write to: Scandinavian Seminar, 100 East 85th Street, New York, N.Y. 10028.

ASAE Paper Award

Professor J.R. Ogilvie, Director of the School of Engineering has been announced an American Society of Agricultural Engineers Paper Award winner by the American Society of Agricultural Engineers.

The paper, "Design and Performance of a Liquid Manure Injector," with authorship by S.C. Negi, E. McKyes, R.J. Godwin and Prof. Ogilvie was published in *Transactions of the ASAE* during 1978. The award was announced during the joint ASAE/CSAE annual banquet at the University of Manitoba, Winnipeg in June.

A total of 242 papers were evaluated by the selection committee and only eight were selected for awards. Winners of ASAE Paper Awards are chosen from papers of engineering merit published in any of the 12 issues of the Society's publication *Agricultural Engineering* or in any issue of *Transactions of the ASAE* during the calendar year.

Back From Sabbatical

Dr. D.C. Jordan, Chairman of the Microbiology Department, has recently returned from a year's sabbatical leave. During this time he carried out research on symbiotic nitrogen-fixing bacteria associated with *Medicago*, at the Commonwealth Scientific and Industrial Research Organization in Canberra, Australia. In addition he spent a month in Papua New Guinea where he taught at the undergraduate level and aided in research on bacteria associated with the winged bean. Dr. Jordan presented a number of invited lectures in Australia, New Zealand and Papua New Guinea to both university and government laboratory personnel.

Veterinary Anatomists

At the meeting of the Canadian Association of Veterinary Anatomists held at Ohio State University,

Columbus, Ohio, Professor M.K. Bhatnagar, Biomedical Sciences, became senior vice-president and Professor P.M. Mann, Biomedical Sciences, was re-elected secretary-treasurer.

OAAG Executive

Judith Nasby, Curator of Art and director of the new Macdonald Stewart Art Centre has completed a two year (the first in its history) term as president of the Ontario Association of Art Galleries.

As past president, Ms. Nasby will still sit on the OAAG executive for another year.

Africa Week

Africa Week festivities are under way on campus — the first of four special weeks in the Centre for International Program's international education series. Middle East Week will be observed in November, China Week in January and West Indian Week in March.

African contemporary literature will be examined by professor Bernard Fonlon, chairman of the comparative African literatures department at the University of Yaounde, Cameroun, Thursday, October 18 at 7:30 p.m. in Room 103, University Centre.

Displays and information about Africa, including a fashion show, slides, a demonstration of musical instruments, arts and crafts will be part of an African fair Friday, October 19 beginning at 12 noon in the courtyard of the University Centre. Representatives from the African Students Association will be in attendance to share educational and development information about the different regions of Africa. □



Chivalry appears to be alive and thriving on the Guelph campus. University police division constable P.L. O'Toole displays all the qualifications of a knight as he changes a flat tire for staff member Sheila Corstophine, Residences.

Watercolors acquired

Two important watercolors by prominent Canadian painter, David Milne (1882-1953) have been acquired by the University through money provided by the Alma Mater Fund and matched by Wintario.

The earliest watercolor, painted in 1920 while Mr. Milne was living near Boston Corners in the Adirondacks, is an unusual landscape view which includes a portrait of the artist's wife. His characteristic early style, in which he used sketchy lines in a limited range of colors and left areas of white paper to create an overall rhythmic pattern, was developed during the Boston Corners period. This work is being repatriated from a private collection in the United States.

The second is an example of his later, more lyrical watercolor style in which he worked on very wet paper to create freely-flowing color washes with muted details. This view from his studio window in Uxbridge, Ontario dates from 1941.

One of the drypoint etchings "Painting Place," Milne's only print produced in a large edition, was also recently purchased, since his early style was deeply influenced by the dry-point technique. □

A Simon Fraser English professor, Ralph Maud, has resurrected the contributions of Vancouver pioneer anthropologist Charles Hill-Tout in a just-released four-volume work, *The Salish People*. Hill-Tout detailed the customs and legends of the Coast and Interior Salish and wrote the first resume of British Columbia archaeology. The publisher is Talonbooks.

Professor J.R. Kidd, department of adult education, the Ontario Institute for Studies in Education, will be a visiting professor in the extension education section of the School of Agricultural Economics and Extension Education October 22 to November 1. Prof. Kidd is also the secretary-general of the International Council for Adult Education.

One of the most eminent Canadian adult educators, Prof. Kidd has also influenced the direction of adult and non-formal education in the development world. The first chairman of OISE's department of adult education has served as chairman of the Commission Evaluating World Literacy Program, chairman of the International Committee for the Advancement of Adult Education, and president of the Third World Conference on Adult Education. He has also acted as consultant to the University of Rajasthan, Jaipur, India, and the University of West Indies.

Prof. Kidd will visit classes, hold discussions with students and faculty, give an open seminar and a public lecture while on campus. Details have yet to be announced. For further information contact Professor Douglas Pletch, Ext. 3408, or Professor Jim Shute, Ext. 3973. □

M.O.A. Fawusi, a faculty member of the department of agronomy, University of Ibadan, Nigeria, is spending three months at Guelph in the laboratory of Professor D.P. Ormrod, Horticultural Science.

Dr. Fawusi is the recipient of a CIDA-NSE RC Visiting Research Associateship and will continue his studies at Guelph for a further three-month period in 1980 and 1981. In collaboration with Prof. Ormrod, Dr. Fawusi is utilizing the controlled environment research facilities in Horticultural Science to study the effects of temperature and light on the growth and development of corchorus and celosia, two important food crops of Nigeria. □

Dr. Glenn Severin of Colorado State University recently visited the Department of Clinical Studies, OVC. A founding diplomate of the American College of Veterinary Ophthalmologists, Dr. Severin has spent many years studying diseases of the eye. The visiting professor gave several lectures to OVC students and faculty on diagnosis and treatment of ocular diseases in a variety of species. □

TUESDAY, 79 10 23

Lessons — DISCO DANCE LESSONS, 18:00 to 01:00, PCH.

Meeting — HUMAN RIGHTS, Doris Stern of the Human Rights Commission, sponsored by the Asian-Canadian Women's Society, 19:30, 8th fl. lge., Arts. Topics will include job discrimination and adjustment of ethnic children in the schools. Everyone welcome. Meeting — to discuss the COLLEGE WOMEN'S CLUB BABYSITTING CO-OP, 20:00, 54 Glasgow Street North. For further details, call 821-7947 or 822-6588, evenings.

1979 J.S. McLean Memorial Lecture — THE RISE AND DECLINE OF THE GREAT HAMBURGER SOCIETY, Dr. M. Brunk, Professor of Agricultural Economics, Cornell, 20:00, Phys. Sc. 113. Sponsored by the School of Agricultural Economics and Extension Education and the OAC.

Continuing Education — NAUTICAL HISTORY, William Dunphy, 6 sessions, 20:00 to 22:00; to register, call Ext. 3956, 3957 or 3958.

WEDNESDAY, 79 10 24

Luncheon Special — 11:30 to 13:30, PCH.

Career Information Session — COLLEGE OF EDUCATION, BROCK UNIVERSITY, 10:00 to 12:00, UC 334. Drop in for program information.

Worship — CATHOLIC MASS, 12:00 Chapel, level 5, UC; IMMANUEL FELLOWSHIP, 19:00, 8th fl. lge., Arts.

Employment Search Program — THE RESUME, JOB LOCATION STRATEGIES, THE LETTER OF APPLICATION, 13:00 to 14:00, UC 301.

Office for Educational Practice Workshop — DISCUSSION ON LIBERAL EDUCATION, 15:00 to 17:00. For more information, call Ext. 3522.

Career Information Session — BUSINESS AND MANAGEMENT CAREERS, 19:00, UC 103.

OPIRG Free Film Series — BATTLE OF ALGIERS, fictionalized account of the French occupation of Algiers, 19:00, Land. Arch. 204.

Drama — A CHASTE MAID IN CHEAPSIDE, by Thomas Middleton, staged by the Department of Drama, 20:00, Inner Stage. Tickets, at \$2, obtainable at the central box office, UC courtyard. Nightly performances continue 79 10 25 and 79 10 26.

CSA Entertainment — ROCKY HORROR PICTURE SHOW, 20:00, PCH. Admission \$2.

Dance Club — INTERNATIONAL DANCE CLUB, 20:30, Gryphon Room (upstairs at the Stadium). Everyone welcome.

Lecture Series — ON THE TUTANKHAMEN EXHIBIT, Prof. Mahmoud Sadek, 20:00, Physical Resources 105. Series continues 79 10 31.

THURSDAY, 79 10 25

Continuing Education — WOMEN IN MANAGEMENT, Etta Connor, 09:00 to 16:00; course continues 79 10 26. To register, call Ext. 3956, 3957 or 3958.

Biomedical Sciences Seminar Series — ALLERGIC AIRWAY OBSTRUCTION: HISTAMENE? PROS-TAGLANDIN? SLOW REACTING SUBSTANCE?, Dr. J.F. Burka, department of pharmacology, University of Western Ontario, 11:00, OVC 309.

Luncheon Special — 11:30 to 14:30, PCH, UC.

Noon Hour Concert — ANGELA HEWITT from Canada, piano, 12:10 and 13:10, Arts 107.

Employment Search Program — THE INTERVIEW, 13:00 to 14:00, UC 301.

Worship and Religious Meetings — CATHOLIC MASS,

17:00, Chapel, level 5, UC; ANGLICAN EUCHARIST, 17:10, UC 334; INTERVARSITY CHRISTIAN FELLOWSHIP, 19:00, 9th fl. lge., Arts; CHRISTIAN DOCTRINE CLASS, 20:00, UC 334.

Office for Educational Practice Workshop — SMALL GROUP WORKSHOP to discuss ways of learning enhanced by a small group setting, 16:00 to 18:00. At a second workshop, 79 11 08, 16:00 to 19:30, participants will practise and receive feedback on small group teaching skills. To register, call Ext. 3522.

Athletics — WOMEN'S SWIMMING INTRASQUAD, 17:00, Athletics Centre; WOMEN'S ICE HOCKEY EXHIBITION GAME, 19:15, Guelph Arena.

Meeting — NAVIGATORS NEW LIFE, 19:00, UC 442. TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Prof. Stanley Saunders, director, Division of Music, 19:00, Cable 8.

University of Guelph Faculty Association — COUNCIL MEETING, 19:30, board room of the Faculty Club, level 5, UC.

Live Series — CALIFORNIA, 20:00, PCH. Admission \$1.

Highlights of the Weeks Ahead

Friday, 79 10 26

Two-Bit Flick — MURDER BY DEATH, 19:00 and 21:00, Phys. Sc. 105.

Saturday, 79 10 27

History Conference — 16TH CENTURY STUDIES CONFERENCE, 09:00 to 17:30, Arts 116-121. Continuing Education — AGRICULTURAL HISTORY OF ONTARIO, 09:30 to 16:30; call Ext. 3956 for more information.

Sunday, 79 10 28

Meeting — RHODODENDRON SOCIETY OF CANADA, 13:00 to 14:30, Arboretum Centre. Everyone welcome. Admission free. Cine Series — THE BIG FIX, Richard Dreyfuss, 19:00 only, WMH.

Monday, 79 10 29

Continuing Education — FIVE RENAISSANCE PORTRAITS, Prof. G. Bartocci, 5 sessions, 19:30 to 21:30. Register at Ext. 3956.

Tuesday, 79 10 30

Our World — NO ACT OF GOD, a National Film Board presentation looks at current nuclear energy policy, 12:10, UC 442.

Career Information Sessions — TEACHING AND ALTERNATIVES, 19:00, UC 442.

Thursday, 79 11 01

Noon Hour Concert — THEODORE LETTV IN of the United States, piano, 12:10 and 13:10, Arts 107. Everyone welcome. Admission free.

Friday, 79 11 02

Musical — 18 WHEELS, presented by the Tarragon Theatre, 20:30, WMH. Tickets at central box office, UC.

Saturday, 79 11 03

Arboretum Series — BIRD FEED AND FEEDERS, Alan Watson, 13:00 to 15:00, J.C. Taylor Nature Centre.

Athletics — BASKETBALL, Guelph vs. Alumni, 20:15, Athletics Centre.

Lucky draws for King Tut exhibition

Persons with the following identification numbers have had their applications drawn by the Department of Fine Art to purchase tickets for the King Tutankhamun exhibition at the Art Gallery of Ontario for the times indicated.

Tickets must be picked up and paid for by Thursday, October 25 at 12 noon. Tickets not picked up by then will be awarded to unsuccessful applicants in the first draw.

| Nov. 3 (8 p.m.) | Nov. 14 (4 p.m.) | Dec. 2 (1 p.m.) (No Bus) |
|-----------------|------------------|--------------------------|
| 212 431 431 | 443 223 724 | 437 296 247 |
| 719848200 | 751304000 | 442 366 761 |
| 456 171 990 | 762945810 | T 999 012 081 |
| 772 148 640 | 433 132 453 | 419 780 531 |
| 442 581 310 | 429 240 670 | 781528560 |
| 75146900 | 418 540 308 | 453 413 106 |
| 418 542 734 | 411 350 325 | 433 946 613 |
| 705808800 | 430 312 314 | 418 550 489 |
| 453 766 818 | 442 239 570 | 468 568 573 |
| 425 684 669 | 782198740 | 791625700 |
| 791878650 | 779000630 | 614 768 273 |
| 419 190 897 | 455 062 299 | 433 346 681 |
| 450 298 732 | 100 598 564 | 436 537 450 |
| 791620260 | 473 511 355 | 791510510 |
| 208 680 983 | 771565650 | 441 094 067 |
| 791263240 | 403 906 126 | 411 605 884 |
| 792089650 | 428 300 460 | 460 763 949 |
| 434 165 767 | 431 306 109 | 450 619 960 |
| 112-373 204 | 791695880 | 461 854 127 |
| 429-092-851 | 751788600 | 793412380 |
| 782119060 | 440 685 071 | 425 274 123 |
| 418 540 050 | 771764120 | 703719658 |
| 771784270 | 439 489 238 | 772843180 |
| 791733040 | 704 802 500 | 420 211 179 |
| 452 199 989 | 791891580 | 741375500 |
| 792116700 | 980607000 | 464 807 756 |
| 771808350 | 793357320 | 773474190 |
| 539 402 669 | 799004870 | 615 397 544 |
| 771817660 | 761 940 890 | 416 008 845 |
| 218 028 538 | 761493230 | 466 039 344 |
| 435 414 164 | 980624100 | 741822800 |
| 429 599 251 | 771221070 | 434 201 943 |
| 741746100 | 771754700 | 781286380 |
| 625 826 664 | 781608700 | 772259710 |
| 799003210 | 791711640 | 771074340 |
| 793442700 | 769010000 | 781204830 |
| 421 627 241 | 761079980 | 793343120 |
| 783325210 | 771099920 | 444 444 772 |
| 431 543 578 | 781564670 | 793442380 |

Dec. 6 (2 p.m.)

| | | |
|-------------|-------------|-------------|
| 442-308 318 | 433 855 236 | 100 000 815 |
| 771084310 | 792092550 | 793371070 |
| 751603900 | 771088070 | 977003000 |
| 761649710 | 771501740 | 980505400 |
| 751333800 | 781173610 | 980559600 |
| 772184130 | 791647540 | 781724110 |
| 761662770 | 771335170 | 731475300 |
| 761955270 | 782199880 | 731306300 |
| 980597000 | 792096980 | 791666080 |
| 781001310 | 791969970 | 781847550 |
| 792094900 | 791539140 | 781002160 |
| 792091080 | 792271880 | 791348700 |
| 751530600 | 980632600 | |

THE GUELPH CAMPUS CO-OPERATIVE'S annual meeting will be held Monday, October 22 at 7 p.m. in Room 103 of the University Centre.

Next Week at Guelph

THURSDAY, 79 10 18

Luncheon Special — TBA, 11:30 to 14:30, PCH.

Noon Hour Concert — PIANO TRIO BERLIN, violin, 'cello, piano, 12:10 and 13:10, Arts 107. Admission free.

Employment Search Program — THE INTERVIEW, 13:00 to 14:00, UC 301; for more information contact the Counselling and Student Resource Centre, level 3, UC.

Worship and Religious Meetings — CATHOLIC MASS, 17:00, Chapel, level 5, UC; ANGLICAN EUCHARIST, 17:10, UC 334; INTERVARSITY CHRISTIAN FELLOWSHIP, 19:00, 9th fl. lge., Arts; CHRISTIAN DOCTRINE CLASS, 20:00, UC 334.

Job Hunting — INTERVIEWING SKILLS CLINIC, 18:00 to 21:00. Register at the Connection Desk, Counselling and Student Resource Centre, level 3, UC.

Meeting — NAVIGATORS NEW LIFE, 19:00, UC 442.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Prof. Stanley Saunders, director, Division of Music, 19:00, Cable 8.

Public Lecture — THE CONTEMPORARY SPIRIT IN MUSIC AND THE ARTS: AVANT GARDE OF THE HISTORICAL ERAS, Dr. Edmond A. Cykler, renowned scholar and visiting professor of music, 19:00, Arts 107.

International House Panorama Series — FACTS ABOUT AMNESTY INTERNATIONAL, 19:00, Watson Hall lge.

Africa Week — AFRICAN CONTEMPORARY LITERATURE, Prof. Bernard Fonlon, chairman of comparative African literatures department, University of Yaounde, Cameroun, 19:30, UC 103.

Hockey — LAURIER vs. GUELPH, 19:30, Campus Arena.

Live Series — CRAWFORD, 20:00, PCH. Admission \$1.

Geography Public Lecture — THE AGE OF LANDSCAPE, contrasts and comparisons in the physical and human geography of Ontario and England, Prof. Allan Straw, University of Exeter, England, 20:00 to 21:30, Arts 031. Open to the public.

FRIDAY, 79 10 19

Seminar — ONTARIO SHEEP SEMINAR, program will be at the University of Guelph except Friday afternoon and evening. Program continues until 79 10 20.

Contact Prof. W.S. Young, Co-ordinator of Agricultural Extension, OAC.

Continuing Education — SOLAR ENERGY WORKSHOP, Joe Umanetz, 09:00 to 16:00; continues 79 10 20, 79 10 26 and 79 10 27. For further information, call Ext. 3956, 3957 or 3958.

Video Tape — GOOD TIMES, 11:00 to 15:00, UC 103.

Luncheon Special — 11:30 to 13:30, PCH.

Africa Week — AFRICAN FAIR, displays and information about Africa, including a Fashion Show, Slides, Music and Arts and Crafts, 12:00, UC courtyard.

Worship and Religious Meetings — CHRISTIAN FACULTY AND GRADUATE STUDENT FELLOWSHIP, 12:00 to 13:00, UC 301; MUSLIM FRIDAY PRAYERS, 12:30, UC Chapel, level 5.

Two-Bit Flick — THE LORDS OF FLATBUSH, 19:00 and 21:00, Phys. Sc. 105.

Body Awareness — EFFECTIVE COMMUNICATION WITH YOUR DOCTOR, 19:30, UC 442.

CSA Entertainment — SECOND CITY COMEDY REVUE, 20:00, WMH. Admission \$5.50 (general) and \$4.50 (student).

SATURDAY, 79 10 20

Exhibit Opening — SEVEN PRAIRIE PAINTERS, organized by the Art Gallery of Edmonton, circulated by the Art Gallery of Ontario, at McLaughlin Library, main floor, until 79 11 18.

Conference — GUELPH ORGANIZATION FOR LEARNING AND DEVELOPMENT (GOLD), 08:30 to 16:30, Phys. Sc. bldg. For further information call G. Sansom, 853-1703.

Arboretum — AUTUMN DAY AT THE ARBORETUM, a colorful cavalcade of music and trees, 10:00 to 16:00, at the Arboretum and the J.C. Taylor Nature Centre. A joint venture of the Division of Music and the Arboretum. Come and enjoy the concert and walk the trails.

Continuing Education — THE CULTURE OF ANCIENT EGYPT, 11:00 to 16:00, continues 79 10 27. To register, call Ext. 3956, 3957 or 3958.

Audubon Wildlife Film Series — RETURN TO THE TETONS by Charles Hotchkiss, 20:00, WMH. Tickets, at \$6 for the series, \$12 for a family season's ticket and \$2, single admission, may be purchased at the central box office, UC.

Africa Week — AFRICAN STUDENTS ASSOCIATION DANCE, with Ernie Smith and the Roots Revival, 20:00, PCH.

SUNDAY, 79 10 21

Worship and Religious Meetings — UNIVERSITY BIBLE STUDIES, 10:00, UC 429 and 442; CATHOLIC MASS, 10:10, PCH; MUSLIM ZOHAR PRAYERS, 13:30, 9th fl. lge., Arts.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Prof. Stanley Saunders, director, Division of Music, 11:00, Cable 8.

Merry Organ Series — McMASTER QUARTET OF HAMILTON, with Valerie Tryon, 16:00, Chalmers United Church, 50 Quebec Street. Subscriptions available at the central box office, UC courtyard.

Cine Series — THE BOYS FROM BRAZIL, 19:00 only, WMH. Admission \$1.75.

MONDAY, 79 10 22

First day of preregistration

Video Tape — MAKING MOONSHINE and GO DOWN MOSES, 11:00 to 15:00, UC 103; continues 79 10 24 and 79 10 26.

Lecture — FLYING SAUCERS ARE REAL, Stanton T. Friedman, 12:10, PCH, UC. The free lecture, sponsored by the University Centre, is open to the public.

Women's Hour — LEGAL IMPLICATIONS OF BEING A WOMAN, 12:10, UC 441.

ICS Course — INTRODUCTION TO SCRIPT, Les Dennis, 18:00 to 21:00, ICS; continues 79 10 24, 79 10 29 and 79 10 31. To register, call Ext. 3046.

CUSO Meeting — SIERRA LEONE, an illustrated talk by returned CUSO volunteer, 19:30, UC 442.

International House Panorama Series — CHINA TODAY, Prof. K.C. Tan, Geography, 21:00, Watson Hall lge.

TUESDAY, 79 10 23

Clinic — RED CROSS BLOOD DONOR CLINIC, 10:00 to 17:00, PCH.

Our World — FACES OF OUR FUTURE — CANADIAN AND PERUVIAN CHILDREN, 12:10 to 13:00, UC 442.

Study Skills Seminar — EFFECTIVE STUDY TECHNIQUES, 12:00 to 13:00, UC 441.

Employment Search Program — THE SELF ASSESSMENT, 13:00 to 14:00, UC 301.

Job Hunting — RESUME WRITING CLINIC, 18:00, Counselling and Student Resource Centre. No need to register; just drop in.

Career Information Session — FACULTY OF EDUCATION, QUEEN'S UNIVERSITY, 15:30, UC 334; MEDICINE AND ALLIED PROFESSIONS, panel discussion dealing with various careers in health, 19:00, UC 442.

Physics Colloquium Series — LIGHT SCATTERING FROM STEADY STATE SYSTEMS, Dr. I. Oppenheim, department of chemistry, M.I.T., 16:00, Phys. Sc. 113.

Continued on page 7.

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