

College Royal open house this weekend

The University of Guelph's annual College Royal and Open House slated for Saturday March 6 and Sunday March 7 this year, has events of interest to every member of the family. Here are some of the events:

Saturday will feature two major events, in addition to the open house displays and exhibits; a livestock showmanship competition in the university arena in the morning, and two fashion shows in the university centre in the afternoon. Sunday will feature a special event for the youngsters; Old MacDonald's Farm, complete with all the farm animals from chickens to cows.

Open House Saturday and Sunday will see the majority of the university's buildings open to the public with a number of displays and special exhibits planned around this year's College Royal theme, Doin' Our Bit. The entire open house has been planned to show the public what university students, faculty and staff are doing to help society, not only in Canada, but on an international basis.

The *Language laboratories* will feature slides and tapes on Europe, music from other countries, videotaped plays in French and Spanish, a linguistics lottery, a recorded presentation of increasing levels of French fluency, insult and lovers' dictionaries, a display of dolls from abroad, and poetry readings in various languages.

Sociology and anthropology will show the films *Limits to Growth*, *Tapiola Finland*, *They're Putting Us Off the Map*, and *Where Have All the Farms Gone?*

Asian studies students will show films on Japanese society, Korea, and will give a flower arranging demonstration.

Philosophy students and faculty will display philosophical puzzles, with prizes for the winners.

Arts students will present 'a new movement in visual arts', videotape art work.

The *English department* will feature the geographical placement of Canadian authors and a geographical survey of Canadian literature.

A display on the widely discussed "Killer Bee" will be presented by the *entomology students* as will an exhibition of live scorpions, black widow spiders, Tarantulas, and bees.

Crop science personnel will give a progress report on one of Ontario's newest crops —



Thirty-nine teams tried cake-baking contest.



Animal evaluation competition.

peanuts. A limited amount of last year's crop will also be available.

Agricultural economics will show how computers assist the farmer in budgeting, obtaining optimum tractor size, leasing versus buying equipment.

Environmental biology will show how to monitor and control both well-known and more obscure pests.

Food science students and faculty will show how old foods can be used in new ways, and

display some new foods. They will also demonstrate how whey solids, now a waste product, are used to make ice cream and ice milk. The importance of color in food will also be demonstrated.

Animal science will have an exhibit of artificial insemination, ova transplants, and tours of the meat science laboratories.

Horticultural science personnel will be on hand with plenty of flowers and plenty of information for those with and without green thumbs. In addition, a cider press will be in operation.

And, as usual, the university's famous *seals* will be on display both days.

The university's *chemistry club* will give a magic show and lab demonstrations, while *computer science* will show graphic plotting, mini-computers, the history of computers, and games and computer art.

The *physics and astronomy* areas will give tours of laboratories and the observatory, as well as show lasers, Polish pendulum and cloud chambers.

An *ornithology* display will feature live and stuffed birds, how birds and man can live together, predatory birds, and the effects of chemicals on birds.

Live snakes will form the basis of the *herpetological club* display, while the *wildlife club* will feature exhibits on the theme "nature and the effects of chemicals, especially PCB, on the environment."

We are surrounded by bacteria and the *microbiology* display will point out some of them. Microbiologists will also demonstrate the art of wine and beer making.

Students and faculty in *housing studies* will show housing design to meet human needs, shelter and behavior, and provide information on government housing policies and housing warranties.

In the *family and consumer studies* area, the *child studies* division will show its pre-school facilities, and give information on studies in sex education and children's toys.

Textile and consumer clothing displays will include explanations of clothing care labels, how textiles are tested for flammability and abrasion, and an explanation of the new metric sizing for clothes.

Continued on page 7.

CAMPUS BRIEFS

Noon hour concert

The Music Group of London will be making their second appearance at the Thursday Noon Hour Concert series on March 11, 12:10 to 12:45 and 1:10 to 1:45 p.m. in Music Room 107, Arts building. Formed in 1966 from a nucleus of well-known duo and trio ensembles, the Group's extensive repertoire makes it much in demand both in the U.K. and abroad. In addition to a highly successful series of concerts in the Queen Elizabeth Hall, London, the Music Group of London has performed throughout the British Isles, broadcasting frequently for BBC radio and television. Overseas concert tours have taken these artists to Eastern and Western Europe, India, Middle and Far East, Canada and the U.S.A. The Group's tour is in association with the British Council. Program I will feature Haydn's Trio in E flat and Piano Trio Op. 20 by Alexander Goehr, and Beethoven's Trio in B flat Op. 97 Archduke will be played in Program II. Members of the Group include: Eileen Croxford, cello; Hugh Bean, violin and David Parkhouse, piano.

Bus route

The entrance mall roadway to the University Centre is designated as a bus route as of Friday, March 5. Vehicles parked or standing in the designated area will be subject to tow away.

English course offered

A five-week, non-credit course in remedial English is now being offered to foreign students who need to improve their English skills. Emphasis is placed on the written work where the university needs are greatest, however, oral practice is also provided. The instructor is Kari Dako, an experienced teacher of English as a second language. This course is made possible by a grant from the Department of Student Affairs, and the Centre for International Programs. A small fee is charged. If you are interested in taking this course, please contact Elaine Dove, International Programs, Ext. 3256 or Don Amichand, International Student advisor, Ext. 3953.

U of G choir

The University of Guelph Choir is rehearsing for their concert Wednesday, March 31, 8:00 p.m., War Memorial Hall. Under the direction of Fred Stoltzfus, the Choir will be singing Kyrie Eleison by Mozart, Three Shakespeare Songs by Ralph Vaughan Williams, Antonin Dvorak's Songs of Nature, Harry Somers' Folk Songs, and other works by Healey Willan, William Billings, Thomas Weelkes and Johannes Brahms. Tickets are on sale now at the Central Box Office, University Centre, Ext. 3940.

Native land speaker

Charles Ovorvold, vice-president of the North West Territory Metis Association and the man who was instrumental in drawing up the Dene (Indian and Metis) Declaration in September of 1975, will conduct a slide/tape presentation and discussion on the Dene land reclaim March 9, 12:15 p.m., Room 441, University Centre. Mr. Ovorvold's talk is part of three activities scheduled for Native Land Settlements Week, March 7 to 13, sponsored by the World University Services of Canada. At 3 p.m. there will be a slide/tape presentation and panel discussion on the James Bay project and at 7:30 p.m., a film and discussion on Cree hunters of the Mistassini.

Daycare openings

The Campus Childcare Co-operative operates year-round in a renovated house on Gordon Street, with an enrolment of 30 preschool children. Because the centre is co-operative, parents spend several hours a week helping in the centre during the day or cleaning, maintaining and administering the centre. A professional staff of three carries out a balanced program of arts and crafts, supervised play, outdoor play and a daily nap. Openings will be available in early April for children six months to five years of age, for either half day or full session. For additional information or applications, please contact Charlene Dickenson, Ext 3725 or 836-4981. Children of faculty, staff and students now attend the centre.

FACULTY ACTIVITIES

Professor A.M. Fuller, Geography, presented a paper, government and the planning of rural change: The case of the Ontario A.R.D.A. program to the annual conference of The Institute of British Geographers in Coventry, England. Professor Fuller is currently on leave and is collaborating with the extension branch of the Cassa Peril Mezzogiorno, Italy on research concerning land co-operatives in Sardinia.

Professor C.A. Fyfe, Department of Chemistry, spent two months as visiting foreign scientist at the I.B.M Research Laboratories in San Jose, California, where he presented a series of lectures on the research work being carried out in Guelph in the area of resonance spectroscopy. While in the area he visited several universities and was invited speaker at the Department of Chemistry, University of Santa Cruz.

Dean D. G. Howell of the Ontario Veterinary College has been appointed to the UNEP/UNESCO/ICRO, (United Nations Environmental Programme, United Nations Educational, Scientific and Cultural Organization, International Cell Research Organization), expert panel on microbiology. He will shortly be visiting India for a meeting of the Panel. The panel, in general, deals with the application of microbiological techniques to such matters as food production, waste utilization, environmental control, and water utilization.

Professor Jean H. Sabry, Department of Family Studies, attended mid-year meetings of the board of directors of the Canadian Dietetic Association in Montreal. Professor Sabry is chairman of the Nutrition Education Committee of the dietetic association.

Professor John R. Sorfleet, Department of English, was recently invited to join the editorial advisory board of *Owl: A New Canadian Magazine for Children* (published by the Young Naturalist Foundation). The first issue has just appeared. Professor Sorfleet has just heard from the Canada Council that *Journal of Canadian Fiction*, which has recently moved to Guelph under his editorship, has been awarded \$18,700 for 1976.

Professor B.J.E. Teskey, Department of Horticultural Science spent six months in Britain with the Long Ashton Research Station, which is the Department of Agriculture and Horticulture for the University of Bristol. He participated in research with growth regulator effects on behaviours and performance of orchard crops and also visited horticultural research stations and commercial enterprises throughout Britain and Ireland. Professor Herman Tiessen, Department of Horticultural Science, was presented with an award on the occasion of the 25th Anniversary of the Essex County Associated Growers, for having made significant contributions to the local agricultural scene.

Professor Frank Theakston, Engineering, attended meetings of the board of examiners, Association of Professional Engineers, Toronto and the regional council of the Engineering Institute of Canada. He also attended a meeting of the snow and ice committee National Research Council held in Ottawa, recently.

Classical guitar



Liona Boyd

One of Canada's best-known concert artists, Liona Boyd, will present a concert of classical guitar Saturday, March 13, 8 p.m., War Memorial Hall. The 25 year-old Toronto-based classical guitarist

has studied the guitar since she was 14. She picked up her technique from her first teacher, Eli Kassner, in Toronto, and then graduated from the University of Toronto with a Bachelor of Music in performance. She also took a master class with English guitarist-lutanist Julian Bream whose performances originally turned her on to the guitar. After graduation she studied privately in Paris with Alexandre Lagoya. Her best selling album, *The Guitar*, is enjoyed by both 'serious' music lovers and rock fans. The University of Guelph Central Student Association presents Miss Boyd. Tickets are on sale at the box office, courtyard, University Centre.

'Charette' experience for Landscape Architecture students

Students of the School of Landscape Architecture will gather together March 14 for a joint presentation of their entries to a design competition after which they will very likely go home to sleep for the first time in five days.

The project is one of the most demanding, and potentially most rewarding ever undertaken within the university. Five teams, each of 15 students, will work on the same design problem under the personal supervision of some of North America's most distinguished professional landscape architects. Each team will be exposed to its leader's own design philosophy and methodology, and since landscape architects are as much artists as scientists, the approach is likely to be a highly personal exercise in team psychology.

The workshop will be co-ordinated by School of Landscape Architecture professors Cameron Man and Richard Forster. The design team is composed of some of today's most prominent landscape architects:

Roger McErlaine: a founding partner in Process Oriented Design Associates, Orange City, California, a major landscape architectural and planning firm. They undertook the land utilization plan for all lands owned by the Burlington Northern Railway from the Great Lakes to the Pacific.

Brad Johnson: a senior partner in Johnson, Sustrunk, Weinstein & Associates, Toronto, a noted landscape architectural and planning firm. He was the appointed landscape architect for the new Toronto Zoo.

Jim Taylor: a partner in Lombard North, a major landscape architectural and planning firm with offices in Winnipeg, Regina, Calgary and Edmonton. He is a noted campus planner and project designer for various major projects in Western Canada including master planning for Confederation College in Thunder Bay, Ontario, Mount Royal College, Calgary and the University of Lethbridge and continuing projects in Wascana Centre, Regina.

M. Kinoshita: a senior partner in Sasaki, Dawson & May of Watertown, Massachusetts, a major landscape architectural and planning firm. One of his major projects was the master plan for Constitution Plaza in Hartford, Connecticut — a pedestrian walking and gathering space built on the roofs of parking space which spans several city blocks and separates pedestrian movement from vehicular movement.

There will be a fifth guest practitioner, whose name has yet to be confirmed.

Guest critic will be Victor Papanek, designer, anthropologist, teacher, film-maker and writer who will be on campus to lecture March 11, 8 p.m., Arboretum Centre, on post industrial design. Mr. Papanek has worked in 11 countries, as well as with Navajo Indians

and Eskimos, and designs for UNESCO/UNIDO and the automobile firm of VOLVO A/B, Sweden.

The problem is based on an actual situation/ an island which is to be developed as a private resort area complete with housing, hotels and marinas. All the preliminary surveys have been carried out. Aerial photographs, maps and slides taken both in summer and winter have already been made available to the chief designers along with a complete set of topographical and geological data, as well as a full inventory of natural resources.

"The concentrated nature of the project is by no means atypical of landscape architectural procedures," says Professor L.M. Wester, who is co-ordinating public relations for the exercise. "Periods of intense concentration on a total problem are normal in the profession and are referred to as 'charettes'. The word is derived from a term used by French beaux arts students who, under the pressure of a deadline, would often finish their entries to a competition 'en charette' — that is, on the back of the wagon which carried them and their project to the school,"

The importance of this charette to the student will be the unique experience of working for a master designer under simulated office conditions. They will learn what it is like to work to a tight schedule under the direction of someone who is used to sustaining high levels of creativity and production — and eliciting similar performances from his staff. They will have the experience of working within the discipline of a master concept in which each of them individually will contribute only that part of the work which has been assigned to him.

"The pay-off," says Prof. Wester, "comes on the Sunday afternoon when teams of very tired students who, for five days have been working under the pressure of an unfamiliar philosophy and methodology, discover that in fact there were at least four other uniquely different ways of tackling the same problem — a different attack, a different developmental procedure, different concepts, different techniques for problem solving and decision making, and different media for presenting the results. The opportunity to work under designers, each of whom enjoys an international reputation, is one which we may not easily be able to duplicate in the future, and you may be sure the students are fully aware of this and keyed up for a unique experience."

The presentation on March 4, will be juried in Room 105, Physical Science building, before an invited audience of landscape architects from all parts of Canada and United States, as well as members of the faculties of schools of landscape architecture on both sides of the border. [1



Recipients of the Alma Mater B.Sc. In-Course Scholarships gather for a photograph following presentation of the awards recently. With Professor E.B. MacNaughton, dean, College of Physical Science are Peter Zess, mathematics; Dennis Nolan, computing and information science; Maureen O'Connor, honors biochemistry; Frank Patrick, mathematics; Professor Bruce Stone, Animal and Poultry Science; Ranjan Batra, honors biophysics, and Peter Schultz, honors physics. Not in this picture are three other recipients Eric J. Woodsworth, fish and wildlife biology, Paul M. McKee, marine biology, and John Smith, fish and wildlife biology.

Study of hemophilic dogs may provide answers for similar disorder in humans

Ever since Queen Victoria surfaced as a carrier of hemophilia, the affliction has enjoyed widespread notoriety historically and medically.

Unfortunately even a royal connection cannot lessen the suffering of hemophiliacs.

Dogs, cows and horses also suffer from hemophilia, which loosely speaking is an abnormally slow blood clotting mechanism. Several researchers at the University of Guelph are looking at blood clotting disorders in dogs, which are similar to the clotting irregularities in man. Because of this similarity and the ease with which dogs can be acquired and maintained, dogs are an ideal model for blood clotting studies.

At one time hemophilia was known as any condition in which the blood clots slowly. Scientists have since detected several types of blood clotting errors. Normal clotting requires the presence of blood platelets (a type of cell in the blood) and several proteins or factors. If any one of these substances is missing or inactive, a longer blood clotting time results.

The most common and potentially the most dangerous type of clotting defect is hemophilia A Christmas disease (hemophilia B), is similar to Hemophilia A in severity of bleeding episodes. Qualitative platelet defects, generally characterized by tiny hemorrhages in the skin and mucous membranes, are related to impaired activity of the platelets. Recent research has shown that the platelets are circulating in normal concentrations, but for some reason don't function normally.

These three types of blood clotting irregularities are represented in the colony of hemophilic dogs at the university's Ontario Veterinary College (OVC). In a recent interview Professor Patricia Gentry said the colony is maintained at about 30 dogs, but could be easily bred up to a larger size for specific research projects. The colony originated with donations of afflicted dogs from breeders and owners, and it now contains Labrador retrievers with Hemophilia

A, Cairns terriers with Christmas Disease and Bassett hounds with a qualitative platelet defect. The OVC scientists are gathering complete genetic information on the dogs so the colony could be made available to other scientists interested in blood clotting studies.

Purebred dogs most often suffer from these inherited clotting defects because of the extensive inbreeding required to attain currently popular phenotypic characteristics.

However, hemophilia has been detected in mongrel animals also.

Professor Gentry said that dog breeders are now aware of genetic problems in their animals and often consult scientists at OVC about these problems. Several breeders, after detecting inherited blood disorders, have come for genetic counselling. A mating plan which will breed the problem out of the group of dogs usually can be worked out.

While contributing to basic medical research, the colony also plays a role in teaching. Materials from the dogs are used for laboratory analysis and the dogs themselves serve as examples of hemophilic animals.

To the casual observer, these hemophilic dogs appear normal. Indeed, they probably receive better medical care than many human hemophiliacs. When bruised or injured, the animals



Transfusing a dog.

frequently develop a hemotoma-- a large blood mass which appears as a bulge at the location of the injury. Like humans, the dogs suffer in varying degrees. For some, even a minor injury could prove fatal, while others can lead almost normal lives. One dog in the colony has passed its tenth birthday.

In spite of growing public awareness and concerted research on human and animal forms of hemophilia, many aspects of the disease still elude scientists. Part of the problem is that the factors appear in such minute quantities in the blood, that the task of isolating them is enormous. Gallons of blood yield only milligram quantities of the clotting factors. So far, researchers have succeeded in isolating several factors from bovine and human blood.

Professor Gentry is developing methods of using the hemophilic dogs as models for the human condition. In the future she hoped to study the effects of circulating hormones on the blood clotting mechanism in a joint study with Professor I.B. Johnstone and Professor R.M. Liptrap.

Professor Johnstone and Professor F. Lotz are studying a qualitative platelet defect in Bassett Hounds. Like a roughly similar condition in humans, the platelet defect is a congenital abnormal functioning of a particular type of cell in the blood called a platelet. In normal dogs, the platelets aid in clotting by becoming "sticky." They adhere to the vessel wall where it is damaged and eventually stick to each other to form the initial seal in clot formation. In afflicted dogs, the platelets do not exhibit this sticking property, so bleeding time is prolonged. Professor Johnstone says that research in this area is active and most of the present body of information has been gathered in the last 15 years.

Ongoing research is funded by the Ontario Heart Association and the Ontario Ministry of Health. The researchers have applied to the Medical Research Council for additional funds.

BOARD OF GOVERNORS

University of Guelph residence and food service rates for 1976-77 were announced by Board of Governors this week.

Student residence rates for the East Residence, apartment style, will be \$475 per semester for singles and \$440 per semester for doubles for the fall and winter semesters. Singles for the spring semester will be \$402. In the North and South residences, singles will cost \$440 per semester and doubles \$410 per semester for the fall and winter semesters. Singles for the spring semester will be \$372 per semester. Double room rates in all residences are reduced by \$50 when used for triple occupancy. Conference rates change, effective May 1, 1976. Singles will cost \$11 per day; doubles \$9 per day; students, \$5 per day, and apartments, \$12.50 per day. Rent for married

student townhouses will be \$206 per month, furnished, and \$195 per month for unfurnished, effective September 1, 1976. Rates are dependent on approval by the Rent Review Board.

The university food service rates for 1976-77 are \$280 per semester for Plan A and \$340 per semester for Plan B.

Board of Governors has approved calling of tenders for phase II of the renovations to the OVC main building, subject to allocation of funds by the Ministry of Colleges and Universities. The capital project status report indicates that the OVC main building extension is complete and the OVC main building renovations design work is in progress. A contract has also been awarded to Whitman Contracting Limited for the Eramosa field station. Work on the site is expected to start April 1 and be completed by August 31. The

work on the Agricultural Economics building is on schedule and is expected to be completed by May 30.

Appointments approved by the Board are as follows: William Hughes, associate professor and acting chairman Dept. of Philosophy, May 1 to July 31, 1976; George A. Bubenik, associate professor, Dept. of Zoology, effective April 1, 1976; Richard M. Barham, professor and chairman, Dept. of Family Studies, effective August 1, 1976; Jack W. Tanner, professor and chairman, Dept. of Crop Science, effective July 1, 1976; Gordon F. Townsend, professor and acting chairman, Dept. of Environmental Biology, September 1 to June 30, 1977; J. Brian Derbyshire, professor and acting chairman, Dept. of Veterinary Microbiology and Immunology, February 1 to May 3, 1976; Mark W. Waldron, director, Office of Cont. Ed., reappointed, effective August 1, 1976; Anthony M. Fuller, director, Outreach Program in Rural Development, Office of Cont. Ed., effective May 1, 1976; and William E. Tossell, Dean of Research Office of Research, reappointed, as of September 1, 1976. 0

Time change

There has been a change in the times for the March 9 and March 10 meetings of support, faculty, and professional staff with President Forster to discuss the financial state of the university. Both meetings begin at 4:15 p.m., not 4:30 p.m., as originally stated.

Blood donor clinic

A presidents' blood donor clinic sponsored by President Forster, and Bill Gray president of UGCSA, will be held Tuesday, March 9 and Wednesday, March 10, 10:00 to 12:00 a.m. and 1:30 to 4:00 p.m. each day. Room 001, University Centre.

Centre Six open

The following shops in Centre Six will be open for College Royal weekend, Saturday, March 6, and Sunday, March 7.

Burger Shop	Saturday	8:30 a.m. — 10:00 p.m.
	Sunday	10:00 a.m. — 10:00 p.m.
Glacier	Saturday	11:30 a.m. — 5:00 p.m.
	Sunday	11:30 a.m. — 5:00 p.m.
Sandwich Shop	Saturday	12:00 noon — 7:00 p.m.
	Sunday	12:00 noon — 7:00 p.m.
Hot Plate	Saturday	11:30 a.m. — 2:00 p.m.
	Sunday	11:30 a.m. — 2:00 p.m.

If business does not warrant it staff will be sent home early and shops will be closed, with the exception of the Burger Shop.

NCI LA meeting

The School of Landscape Architecture will host the Northeast Chapter Meeting of the National Council of Instructors in Landscape Architecture March 5 and 6. All universities from the northeastern United States and eastern Canada which offer programs in landscape architecture have been invited. This regional conference precedes the NCI LA national meeting to be held in California this July. The theme of the conference is Core curriculum in Landscape Architectural education.

Frontiers of the mind

You are invited to take part in an investigation concerning the relationship between altered states of consciousness and dimensions of personality and adjustment. It is important to have individuals included in the study who have not had altered state experiences as well as those who have. Involvement in the study will require about an hour and a half of time. All information will remain anonymous, however each individual taking part will receive a summary of the results upon the study's completion. If you are interested in participating please come to Arts 117, Saturday, March 6 or Sunday, March 7, between the hours of 10:00 a.m. and 9:00 p.m., Refreshments will be provided. For more information contact Doug Morgan, Department of Psychology, Ext. 3020.

Graduation applications

Applications for graduation at the May convocation have been mailed to all undergraduate students in semester 6 of general programs, semester 8 of honors programs, or semester 4 of the diploma program. Deadline for return of completed applications to the convocation clerk, Records Section, Office of the Registrar, Level 3, University Centre is Friday, March 12. Applications received after that date will not be processed for the May convocation, but will be held for the October convocation. Students who have not received a preprinted application at their post office box should request an application from the convocation clerk prior to the above deadline date.

Aladdin's lamp



William Nassau, director of Audio Visual Service at Wilfrid Laurier University, in an address entitled *Aladdin's Lamp Glimmer to Glamour*, will trace the predecessors of audio visual equipment currently in use in the classroom

— from the magic lantern of the church hall and the parlour stereoscope of the Victorians, to the slide, film and overhead projectors of today. Mr. Nassau's address will focus on Magic Lantern: Magic Village — the exhibition of early audio visual equipment in the Arts building corridor showcases — with examples drawn from the photo-historical collection at Wilfrid Laurier University, the Ontario Ministry of Agriculture and Food, the Guelph Civic Museum, and the University of Guelph campus itself. Mr. Nassau, who has assembled one of the largest collections of early audio visual equipment in Canada, will speak Friday, March 5, in Room 101, Arts building.

Audio Visual presents...



Clothes Pegs for practising addition facts

The first public preview of Professor D. M. Stott's latest film *Math-activity* will be the next offering in the series *Audio Visual Presents*. The 23 minute colour/sound film shows the use of the math-activity kits developed by Professor Stott for the teaching of mathematics to public school age children. The pupils of Paisley Road school in Guelph are shown learning with the games which progress from simple counting to decimals. The film also deals with teacher-child interaction, and the philosophy behind the development of the kits which were recently on display in the Arts

corridor showcases. *Math-activity*, produced by Dr. Stott and the Office of Audio Visual Services, will be March 10, 4:00 p.m., University Centre.

University faculty series

The Hamilton Philharmonic Associates will be the guest artists at the University Faculty Series Sunday, March 7, 4:00 p.m., Music Room 107, Arts building. The program will feature Haydn's *Divertimento in D Major*, *Serenade in D Major*, *Opus 25* by Beethoven and *Quatre Sonnets (a Cassandre)* by Frank Martin.

Faculty and school teachers start discussions

The College of Physical Science hosted some 70 science teachers from Wellington county recently for a discussion of one another's problems. A similar number of faculty from the Colleges of Physical Science and Biological Science took part. The program was aimed at increasing communications between university and secondary school teachers.

The meeting took the form of a discussion chaired by Professor Jim Stevens, Physics, and a panel of teachers and administrators including Wellington's new director of education, Bill Forsythe. While a core curriculum for school courses is needed it should make up only 40 to 60 per cent of the subject matter with the teacher having freedom to fill in the rest, was the conclusion. The panel was followed by workshop sessions in maths, biology, physics and chemistry for more detailed discussions.

The College plans on hosting similar meetings with teachers in other counties. Li

JOB OPPORTUNITIES

Controls Mechanic, Maintenance Department. Job rate \$6.11. Probation rate \$.20 per hour lower than job rate.

Programmer/Analyst, Administrative Systems and Programming, I.C.S. Salary commensurate with qualifications and experience.

Technician, Family Studies. Salary Grade 4. Salary range \$130 - \$172.

Statistical Clerk, Institute of Computer Science. Salary Grade 4. Salary range \$130 - \$172.

Library Associate, Division of Circulation and Information Services, The Library. Salary Grade 6. Salary range \$156 - \$206.

Library Assistant, Circulation, The Library. Salary Grade 2. Salary range \$108 - \$141.

Custodian 3 (2 Positions), Housekeeping Department. Job rate \$4.43. Probation rate \$.20 per hour lower than job rate.

Dollars and fuel saving at Guelph

Easy economies have disappeared from campus budget

Bob Davis, assistant director of Physical Resources, was referred to in the local newspaper as a 'penny pincher'. He would not quarrel with that description even though the word 'penny' is not entirely appropriate.

"We do our best" he would say, "a thousand here, ten thousand there; it all adds up."

Bob Davis is chairman of the University's Energy Conservation Committee which includes the heads of Maintenance, Housekeeping, and Engineering. If they are looking for savings even as low as one per cent they would have to 'penny pinch' \$25,000 every year. In actual practice they have done better than that and savings achieved over the last two years amount to 15 per cent of what the bill would otherwise have been.

The committee was set up at a time when the scaling down of capital developments on campus was bringing operating costs into sharper relief and a fuel bill of more than \$2 million seemed a good place to start.

"You have to understand that we are talking about both dollars and energy and these are not always the same thing", explained Mr. Davis. "Hydro charges maximum rates for consumption during certain peak periods. By spreading the load and by cutting in with our 4000 h.p. emergency diesel generators for very short periods, we can flatten the peaks and achieve savings in the order of \$2000

a month. We are happy to save the money but we would be happier still if this represented an equivalent saving in fuel."

True energy savings are achieved in a large number of relatively small ways amongst which 'switch off unnecessary lights' campaigns have proved very successful.

"We have no complaints about co-operation in this respect. I think most people are conscious of the need to save fuel but it dulls the impact to keep hammering away at it. There are other ways of achieving the same results."

These include an on-going program to study light levels and remove fluorescent tubes whenever this can be done without noticeable loss. During the last two years some thousands of tubes representing 10-12 per cent of the total have been taken out and if anything, effective lighting levels have improved, especially in the library where fewer tubes have reduced glare and increased comfort.

Automatic controls in the power plant monitor selected buildings and whenever possible, cut power to fan systems after midnight. In a well insulated building, heat loss during the night is not more than four degrees and this is restored within half an hour of switch-on at 7 a.m. Between them, such controls produce savings of \$25,000 a year in actual fuel costs.

At a time when the Government of Ontario is pressing universities to save energy, Guelph has already tightened its power belt to such an extent that impressive reductions are no longer possible. The power needs at the university are those of a town of 10,000 inhabitants. Internal lighting remains much the same whether the day is bright or dull and when heat requirements ease down for summer, air conditioning takes up the slack.

Future energy savings will be more in the order of two to four per cent rather than the 15 per cent recorded during the last two years. Overall fuel consumption inexorably rises as ever more power-hungry equipment from electric typewriters to autoclaves comes into operation and further 'penny pinching' becomes a matter of improving the insulation of an attic here and double glazing there.

"Inevitably the cost of saving fuel is going up all the time," Mr. Davis pointed out. "For example, we were very interested in new fluorescent tubes at 34 rather than 40 watts but the price was out of the question. We have to think of fuel saving devices in terms of 'payback time'. Until now we have limited ourselves to installations which would pay for themselves in fuel economies in three years. The easy economies have all gone; now we are starting to look at payback periods of five years — and beyond. □

University staff members attend COUSA conference

The University of Western Ontario Staff Association hosted the winter conference of Ontario University Staff Associations (COUSA) at London, under the chairmanship of David Priddle, University of Toronto, February 21 and 22. Member associations represented were Carleton, Guelph, Laurentian, McMaster, Queen's, Toronto, Waterloo, Western and York. McGill University and Wilfrid Laurier Staff Associations participated with observer status. A staff representative of the London Board of Education was also in attendance.

Following discussion of the general business of COUSA, workshops were held on the Henderson report, wage and price controls, federal/provincial fiscal arrangements for education, and the position of grant-paid support staff. On the Henderson report, the main point of concern was the heavy emphasis on the cutback of university funds without sufficient consideration being given to its effect on the quality of education. The Confederation felt that many of the cutbacks suggested in the report have, in the main, already taken place as a result of reduced funding over the past five years. It was the consensus of the Confederation that serious consideration be given to a graded system of

tuition fees to apply to non-residents of Ontario.

The workshop on wage and price controls, agreed that it supported the guidelines in principle, but due to their complexity it was felt that the results of these regulations would only be equitable if the awards of the Anti-Inflation Board were at all times consistent. It was decided to monitor closely all such awards. It was recognized that the price control aspects of the anti-inflation regulations may be somewhat difficult to initiate and administer, but control and/or rollback of prices should be well publicized in order to create and maintain confidence in the program.

With regard to federal-provincial funding arrangements for education, it was reported by the COUSA executive that a request to the Association of Universities and Colleges of Canada (AUCC) to send an observer from COUSA to the AUCC Conference being held in Montreal, March 25 to March 26, was denied. It was the opinion of all delegates that participation by non-academic staff, the second largest group on any campus, would be of considerable importance to the outcome and validity of any decisions made. It was

resolved to appeal the AUCC organizing committee's decision.

Of major concern to COUSA members is the cutback in the levels of research funding as it relates to support staff. A committee has been formed to meet with the federal and provincial granting agencies and institutes such as the Medical Research Council, National Research Council, and Canada Council, with a view to initiating policy guidelines from the top level, supporting the basic principle that grant-supported staff are full employees of the universities and should be given in all respects equal salaries, benefits, promotion opportunities and job security — a situation which does not currently exist.

At the Saturday evening dinner the guest speaker was Dr. J.J. Wettlaufer, dean of Western's School of Business Administration.

Members of the University of Guelph Staff Association who attended the conference in London were Calvin Hutchins, School of Engineering, treasurer of CO USA; Mrs. C.A. Boyer, School of Agricultural Economics and Extension Education; and Michael Rooke, Department of Zoology, president of the Guelph association. □

Did you have a donut and coffee for your breakfast ?

Putting someone on a special diet is perhaps asking him to change his whole lifestyle. Food plays an integral role in festivals, customs, social affairs and national identity.

This is the problem facing dietitians, and nutritional counsellors, says Professor J.E. Miles, Department of Family Studies. She feels that dietitians, by becoming more aware of these psychosocial implications, will be more effective in nutritional counselling.

Professor Miles recently participated in a Nutrition Improvement Project in Kitchener as one of six speakers in an evening lecture series. About 150 adults, ranging in age from 20 to 80 years, attended the series. In her talk, Professor Miles described nutrition as preventive medicine and articulated ways that good eating can improve one's health.

"Most Canadian health problems are what the Honourable Marc LaLonde in his paper A new perspective on the health of Canadians, calls diseases of choice," explains Professor Miles. "Look at some of the common causes of death in Canada and you see what he means.

"Big killers are heart disease, accidents, cancer, and automobile accidents, especially those involving drinking drivers."

Health is an individual responsibility, as Professor Miles sees it. When you have to call a doctor or go to hospital, it becomes society's

problem because the taxpayers foot part of the bill. Our health costs are rising at an alarming rate, due in large part to the so-called lifestyle diseases like obesity, alcoholism, drug addiction, lung cancer and hypertension.

Professor Miles expresses concern about the incidence of obesity, especially in young people. As a nutritional counsellor, she would not only prescribe a change of eating habits but increased exercise. "Take the stairs instead of using the elevator, and park your car two blocks away and walk the rest of the way - every little bit helps," she advises.

Many nutritional problems stem from affluence - the car replacing feet as transportation, the availability of convenience foods and the proliferation of fast food chains. "Twenty years ago, how many families purchased a case of soft drinks with their week's groceries? Today that is commonplace," observes Professor Miles. In addition, parents are pressured by their television-influenced children. Much of the food advertising is aimed directly at children.

Professor Miles wonders if consumers are aware of how much they pay for convenience. "Perhaps the mothers work and simply don't have time to prepare meals from basic ingredients. A sizeable portion of their food costs, though, may cover the added cost of TV

dinners, snack foods, individually wrapped baked goods, and individual servings of pudding, fruit and desserts." She is concerned that consumers making nutritional choices in the supermarket purchase expensive empty calories like soft drinks, candy, and potato chips.

The proper diet can control or prevent many diseases such as adult-onset diabetes, high blood pressure, and diverticulitis. Out-patient nutritional counselling could be an effective device for nutrition education. This preventive medicine approach could contribute to controlling health costs associated with diet-influenced disorders.

Out-patient nutritional counselling is covered by OHIP, when prescribed by a physician. So heavy is the demand for this service, however, that appointments must be made weeks in advance.

"Dietitians and nutritional counsellors have to do more than educate," says Professor Miles. "To be effective, we have to motivate people to accept the responsibility for their own health. How can I, for example, convince a 20-year-old man that his donut and coffee breakfast will affect his health in 40 years?" Today dietitians and nutritionists borrow knowledge and techniques from the behavioral sciences. This marriage improves their effectiveness as counsellors for they are cognizant of human foibles as well as nutritional matters.

College Royal *Continued from page 1.*

Hotel and food administration students will show how computer reservations work, and will give gourmet cooking demonstrations and tours of their kitchen, dining rooms, and laboratories.

Consumer behaviour personnel will offer a consumer quiz while the consumer foods division will give a taste panel, demonstrate a sensory evaluation laboratory, discuss the universal pricing code, metric packaging conversion, and give nutritional information on package labels.

The *Ontario Veterinary College* will show what the profession is all about and how veterinarians are prepared. Students and faculty will demonstrate the functions of the heart, the effects of drugs on muscles, the function of the five senses, and animal surgical techniques.

Hours for the university Open House are from 9 a.m. to 5 p.m. Saturday and 11 a.m. to 5 p.m. Sunday, March 6 and March 7.

A new feature of this year's College Royal is a series of mini-lectures and films slated for Saturday, March 6 in the Physical Science building, room 105.

Mini-lecture topics are as follows: Standard bred racing, The Ontario sired stakes; Supply management; Food packaging; Animal Science at the University of Guelph; The value of feed analysis and least cost feed rationing; Making your own terrarium; Peanuts; Marketing workshops; Introducing resources management.

Congratulations!

Ontario University Athletic Association (OUAA) Champions.



Front L-R Dave Moote, Ian MacRitchie, Adam Brown, Kim Miles, Tom Gastle, Mike Griffin; 2nd Row Coach Bud Folusewych, Kevin Cornforth, Hugh Mitchell, Jeff Woodyatt, Lorne Jarrett, Rob Allen, George Godin, Steve Mantle, Ass't Coach Doug Weaver; 3rd Row Faculty Advisor Prof. J. Pos, Mike Hammill, Greg McMillian, Dave Cobban, Frank Staubitz, Cal MacWilliam, Dave Dunkley, Manager - Dan Nowlan

Next Week at Guelph

THURSDAY, MARCH 4

College Royal - CURTAIN CALL, 8 p.m., War Memorial Hall.
Course - CONTINUING EDUCATION COURSE begins - Biography of Love.
Speaker - Don MacCleod on GOD IS FAITHFUL, Inter Varsity Christian Fellowship, 8th floor lounge, Arts building.
Thursday Noon Concerts - CANADIAN BRASS, 12:10 to 12:45 and 1:10 to 1:45 p.m., Rm. 107, Arts building.
Speaker - Dr. T. Angus, Canadian Forestry Service. 8 p.m., Rm. 113, Physical Science building.
Employment Search Program -THE JOB INTERVIEW, 1 p.m., Rm. 301, UC.
Department of Career Planning and Placement.
TV - SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8 at 6:15 p.m.
Worship - ROMAN CATHOLIC MASS, 12 noon, Chapel, UC.
Tele-Talk - THE HONORABLE JAMES SNOW, 12 noon to 1 p.m., Rm. 103, UC.
Tennis - TABLE TENNIS LEAGUE - 7 to 10:30 p.m., Rm. 442, UC.
Pub - BOND, 8 p.m., to 1 a.m., Peter Clark Hall, UC.

FRIDAY, MARCH 5

College Royal - DOG SHOW, 6:30 p.m., arena and CURTAIN CALL, 8 p.m., War Memorial Hall
Service - WORLD DAY OF PRAYER, interdenominational service, 12 noon, Rm. 332, UC.
Seminar - GEOTHERMAL ENERGY - THE ICELAND EXPERIENCE, Prof. Peter A. Peach, Department of Geological Sciences, Brock University, 3:15 p.m., Rm. 103, UC.
Free Films - STEELYARD BLUES, 7 and 9:30 p.m., Rm. 105, Physical Sciences.
Video - FORT BRAGG FOLLIES and ACE TRUCKING COMPANY, 11 a.m. to 3 p.m., Rm. 103, UC.
Projections -THE CHILD OF THE FUTURE: HOW HE MIGHT LEARN, 12 noon to 1 p.m., Rm. 442, UC.
TV - SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8 at 5 p.m.
Worship -JUMA PRAYERS - 12:20 p.m., Rm. 553, Chapel, UC.

SATURDAY MARCH 6

College Royal - OPEN HOUSE ALL DAY. OFFICIAL OPENINGS, 1:15, 0 Level, UC, and at the arena. DISPLAYS, 9 a.m. to 8 p.m., courtyard, UC; FASHION SHOW AND TEA, 1:30 p.m. to 3 p.m., and 3:30 p.m. to 5 p.m., Peter Clark Hall, UC; AWARDS PRESENTATION AND PRIZES, 7 p.m. to 8 p.m., Peter Clark Hall, UC; SQUARE DANCE COMPETITION, 8 p.m. to 10 p.m., Peter Clark Hall, UC, LIVESTOCK SHOWMANSHIP COMPETITION, 9 a.m. to 4 p.m. arena; DIRECTOR'S LUNCHEON, 11:45 a.m., Cutten Club; MINI LECTURE SERIES - 10 a.m. and 5 p.m., Rm. 105, Physical Science building; CURTAIN CALL, 8 p.m., WAR MEMORIAL HALL; CAT SHOW, 1:30 p.m. to 4 p.m., OVC.
Research - ALTERED STATES RESEARCH, 10 a.m. to 9 p.m., Rm. 117, Arts building. Individuals are invited to take part.

SUNDAY MARCH 7

Worship - ROMAN CATHOLIC MASS, 11 a.m., War Memorial Lounge; ZOHR PRAYERS AND QURANIC DISCUSSION, 1 p.m., 9th floor lounge, Arts building; ANGLICAN AND UNITED WORSHIP SERVICE, 11 a.m., Chapel, Level 5, UC.; CHRISTIAN WORSHIP SERVICE, 7:30 p.m., 8th floor lounge, Arts building.
Meeting - S.T.M.S. Club advanced lecture series for group meditation and T.M. meditation, 8:15 p.m., 9th floor lounge, Arts building
College Royal - OPEN HOUSE, all day, and OLD MACDONALD'S FARM, 11 a.m., to 5 p.m.; DISPLAYS, courtyard, UC.; FILM DISPLAY; 9 a.m. to 3 p.m., Rm. 103, UC.
Coffeehouse - SUNDAY BULL COFFEEHOUSE, 7:30 to 11 p.m., Bullring.
Cine-Series - BITE THE BULLET, 7 and 10 p.m., War Memorial Hall.
Research - ALTERED STATES RESEARCH, 10 a.m. to 9 p.m., Rm. 117, Arts building. Individuals are invited to take part.

MONDAY, MARCH 8

Women's Hour - SEXISM IN LANGUAGE TEXTBOOKS, 12:10 to 1 p.m., Rm. 442, UC.
Interview Schedule - OTTO PICK & SONS SEEDS, permanent employment interviews. Department of Career Planning & Placement.

Video - STEVIE WONDER, 11 a.m. to 3 p.m., Rm. 103, UC.
Pub - DR. HOOK & THE MEDICINE SHOW, 8 p.m. to 1 a.m., Peter Clark Hall, UC.
Worship - ANGLICAN EUCHARIST, 12 noon, Chapel, Level 5, UC.
Preregistration - Rm. 127, Lounge, UC. Continues daily to March 19.

TUESDAY MARCH 9

Meeting - FARM CREDIT CLUB, talk and discussion with Martin Bauer, of the Farm Credit Corporation, 7 p.m., Rm. 121, Arts building.
Course - APL FOR STATISTICAL ANALYSIS, 6:30 p.m. to 9:30 p.m., Institute of Computer Science. Call Ext. 3046 to register.
Course - I HEAR YOU BUT I'M NOT LISTENING, with Shaindel Zimmerman. Creative Relationships course. 8 p.m., Rm. 332, UC.
Films -WHAT IS DEMOCRACY? and IN THE JUNGLE, 7:30 p.m., Rm. 116, Arts building. Sponsored by the Ibero-American Association, Progressive Cultural Club, and Student Christian Movement.
Interview Schedule - INTEGRA FOUNDATION (camp for autistic children), summer employment interviews; MCMASTER UNIVERSITY, conference office, summer employment interviews. Department of Career Planning and Placement.
Speaker - GEOLOGICAL NEUTRINO ASTROPHYSICS, Dr. M.S. Freedman, Argonne National Lab., Argonne, Ill., 4:10 p.m. Rm. 113, Physics.
Lecture - IMMIGRATION AND THE STUDENT, 7:30 p.m., lounge, International House. Focus on Canada lecture series.
Food Facts - NOON HOUR DEMONSTRATION, how to cook different foods, courtyard, UC.
Blood Donor Clinic - 10 a.m., to 10 p.m., Peter Clark Hall, UC. Continues March 10.
Projections - SIR! SIR! and WEDDING DAY, 12 noon to 1 p.m., Rm. 442, UC.
Worship - ROMAN CATHOLIC MASS, 12 noon, Chapel, UC.
Discussion - Fellowship - 8 to 10 p.m., 9th floor lounge, Arts building.
Course - CATECHISM FOR THE CURIOUS, 7 to 8 p.m., 8th floor lounge, Arts building.

WEDNESDAY, MARCH 10

Blood Donor Clinic - 5 p.m. to 10 p.m., Peter Clark Hall, UC.
Lecture - INTRODUCTION TO TRANSCENDENTAL MEDITATION AND THE SCIENCE OF CREATIVE INTELLIGENCE, 7:30 p.m., Rm 234, Arts building.
Employment Search Program - THE RESUME, JOB LOCATIONS/STRATEGIES; THE LETTER OF APPLICATION, 1 p.m., Rm. 301, UC. Department of Career Planning and Placement.
Interview Schedule - WARWICK SEEDS, permanent employment interviews. Department Career Planning and Placement.
Easy Wednesday - 12 noon to 1 p.m., courtyard, UC.
Video - STEVIE WONDER - 11 a.m. to 3 p.m., Rm. 103, UC.
Audio Visual Presents - MATH-ACTIVITY, 4 p.m. to 5 p.m., Rm. 103, UC.
Fellowship - CAMPUS CHRISTIAN FELLOWSHIP, 7:30 p.m., Chapel, UC.
Worship - ROMAN CATHOLIC MASS, 5 p.m., Chapel, UC.; ANGLICAN AND UNITED DISCUSSION GROUP, 1 p.m., to 2 p.m., Chapel, UC.
Bride - DUPLICATE BRIDGE, Arts building, 8th floor lounge, Play: 7:30 p.m., Learn, 6:30 to 7:15 p.m.
Dance - UNIVERSITY OF GUELPH SQUARE DANCE CLUB, 8 p.m., Rm. 116, Crop Science.
Meeting - ALCOHOLICS ANONYMOUS, 8 p.m., Rm. 332, UC.

THURSDAY, MARCH 11

Thursday Noon Concerts - MUSIC GROUP OF LONDON, 12:10 to 12:45 and 1:10 to 1:45 p.m., Rm. 107, Arts building.
Employment Search Program - THE JOB INTERVIEW, 1 p.m., Rm. 301, UC. Department of Career Planning & Placement.
Interview Schedule - TUCO PRODUCTS, Division of UpJohn, permanent employment interviews. Department of Career Planning and Placement.
Tele-Talk - 12 noon to 1 p.m., Rm. 103, UC.
Table Tennis League - 7 p.m. to 10:30 p.m., Rm. 442, UC.
Pub - MEADOWS, 8 p.m., to 1 a.m., Peter Clark Hall, UC.
Worship - ROMAN CATHOLIC MASS, 12 noon, Chapel, UC.
TV - SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 6:15 p.m.

Postage-Paid-In-Cash At Third Class Rates Permit 721, Guelph, Ontario.



The University News Bulletin is published by the University of Guelph. News items must reach the editor, Department of Information, level 4, University Centre, in writing by noon Friday. Contents may be quoted or reproduced