

# NEWS BULLETIN

UNIVERSITY OF GUELPH

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March 1, 1973



Research assistant Linda Krasnor and pre-schoolers enjoy puzzles.

## Pre-school encourages cognitive learning

Children's voices again fill the spacious hall of Macdonald School, which last year was thought doomed to the wrecker. It is now restored by the Wellington County Board of Education as an Educational Clinic. Professor Norma Bowen's pre-kindergarten for city and county four-year-olds is located in the building.

Professor Bowen of the University's Psychology Department set the program up with a \$20,000 grant from the Ministry of Education in September. It will operate until the end of June with the support of the Wellington County Board of Education which hired the teacher and transports the children to and from the school.

The program, for children who will enter kindergarten in county schools next year, operates much on the lines of a nursery school; however the program is designed to foster the development of certain cognitive skills that are essential prerequisites for successful school performance.

Professor Bowen hopes, through a program aimed at cognitive learning, to prepare the children to fit into the school system. She feels that the present education system directs teacher and child, especially in kindergarten, to socialization rather than to cognitive learning. The curriculum in the past, Professor Bowen says, has been aimed at making the child's separation from his mother easier, hence concerning itself mainly with his emotional welfare, at the expense of his intellectual progress. However, the average child is much more communicative than his parents were at the same age, due to increased stimulation of television and more interaction with adults.

The pre-kindergarten aims to help the child understand and use concepts through doing

simple tasks, through direct teaching, self-discovery and investigation in the classroom. The teachers hope to give the child the opportunity to use newly acquired skills on different tasks, while not encouraging rote or mechanical learning.

Because the children are bused to school on the Board's regular bus runs, they attend school all day every other day, each class alternating weeks of two or three full days at school.

Each day, the teacher, Gail Bowman, a specialist in early childhood education, chooses a theme to which everything that day is related. When the News Bulletin visited the school, the children were learning a version of the Finger Family song, where the child sang "Rough and smooth, rough and smooth where are you?", instead of the usual "Tommy Thumb, Tommy Thumb, where are you?" This was part of the day's theme to study the concepts of rough and smooth. That day the children discussed the smoothness of objects like blocks and various fabrics, and the roughness of rugs, shingles and gourds. The children spent most of the day in what appeared to be free play, but the teachers were always aware of the opportunity to draw the child out on the day's theme, as children played in the sand box, dressed up, stuck colored pegs into a board somewhat like a cribbage board, ate their cookies and drank their juice from brightly colored plastic tumblers.

The full time teacher is assisted by research assistants, Susan Berry, Linda Krasnor, Valerie Mittler Gilmor and Renée Falconer, and volunteers Maureen Gorman, Leona McIsaac and Brenda MacLauchlan. Professor Bowen's fourth year and graduate students observe in the nursery school as do students

of the University's Early Childhood Education Course. Parents are frequent visitors, although some of them have to come in from Rockwood and Aberfoyle.

The children who were nominated by the Wellington County Board of Education were tested and screened by Dr. Bowen and her research assistants. Parents were also interviewed in order to get background information on the children. Dr. Bowen emphasizes the importance of a continuity between home and school for efficient learning in children.

Next fall these 40 children enter kindergarten; their progress will be followed through teacher assessments and cognitive tests each year as they go through school. Two control groups of 40 children each who enter kindergarten at the same time will be selected to make the study complete. In this way Professor Bowen hopes eventually to assess the effect of early cognitive learning on subsequent school performance.



## REPORT FROM SENATE

The number of student senators will be increased as a result of new regulations for elections of students adopted by Senate at its meeting last week. In addition to revised election procedures, the new regulation will effectively increase the number of undergraduate representatives on Senate from 14 to 19. The number of graduate students on Senate remains at two.

The complete proposal, submitted by the Committee On Membership, was ultimately approved with minor amendments. Most of the lengthy discussion centred around proposals to reduce the term of appointment from two years to one, to change the system of proportional voting employed in student elections to Senate, and to revise the representation by population provisions.

While one student senator objected to the proposals and the method by which they were arrived at, other student senators spoke in support of the action of the Committee on Membership. "The trouble with this University is that it listens too much to students," one student senator remarked at one point.

It was pointed out by Professor Little, who introduced the report, that experience had been that most students elected to Senate found it necessary to resign after one year and this fact had a bearing on the decision to change the term. The time of the election will also be changed to the latter part of the winter semester, to be effective in succeeding year, thus avoiding the delay which occurs under the present timing of getting student senators elected and active at the beginning of the fall semester.

Under the proposals now adopted, each degree program will be entitled to one student senator for the first 500 students or part thereof, and an additional senator for each additional 500, up to a limit of five for any one degree program. Under the present enrolment figures, this would give B.A. five senators, B.Sc. three, with two to B.Sc.(Agr.) and B.A.Sc. and one to each of the other degree programs.

Those student senators now serving the first year of a two year term will continue until the end of the period for which they were elected. In the case of vacancies occurring at the end of the present year, the one year term will apply to those so elected.

The Committee on By-Laws made four proposals to Senate, two of which were approved, with the remainder being tabled for later consideration.

Proposals to make the Committee on Teaching and Learning a standing committee of Senate, and to establish a special committee of Senate as a step towards implementing Recommendation (I) of the Report on Aims and Objectives of the University were approved. Recommendation (I) called for the striking of a new committee whose objective would be the integration of the academic and non-acade-

mic resources of the University in the learning process "through strengthening faculty-student relations outside the classroom, through special adaptations of the residence system such as French House, through more intensive counselling, and so on."

The proposal of the Committee on By-Laws to make the Provost an ex-officio member of Senate sparked some discussion. During the discussion, an amendment was introduced, which would have placed educational programs offered by the Department of Student Affairs under the jurisdiction of Senate. This was later withdrawn and offered as notice of motion for the next meeting of Senate.

The original proposal was then tabled, as was another to add the Provost to the Committee on Academic Priorities.

An important item of business was consideration of the Appraisal Brief for the Ph.D. program in Food Science submitted by the Board of Graduate Studies. This was the second time for consideration of this Brief as it had been returned to the Board for certain clarifications. This time it received unanimous approval for forwarding to the Ontario Council on Graduate Studies for consideration.

Professor Norma Bowen, academic representative to the Council of Ontario Universities submitted a written report dealing with two items, the Report of the Committee on Post-Secondary Education in Ontario, and the Report of the Special Committee on Recruiting Guidelines which will be considered by the Council at its meeting this week.

Since copies of the COPSE Report had not been received for faculty members to study, she asked permission to defer discussion of that part of her report until the next meeting.

In discussion of the recruiting guidelines, President Winegard asked that Senate express its opinion of the proposed guidelines as guidance for this University's representatives to the Council. It was pointed out that while formerly, universities in Ontario adhered to the agreement concerning date of notification of acceptance and other matters such as the use of the telephone, last year certain universities chose to circumvent the agreement. It was noted, for example, that in some cases the sons or daughters of members of Senate received two calls from other universities in advance of the agreed date for notification of acceptance.

For an abbreviated listing of the proposed guidelines, please see the special item adjacent to this report. Senate approved acceptance of items in the attached list. (one was rejected)

A proposal to remove the upper and lower limits on the length of time between enrolment in a degree program and its completion was referred to the Board of Undergraduate Studies for consideration and a report.

It was argued that the present regulation requiring completion of a six semester degree in six years and an eight semester degree in

eight years discouraged part time students, and in other cases might not be applied strictly. On the other hand, the lower time limit stipulating a minimum of time which must elapse between registration and graduation penalized the gifted student who was capable of carrying more than the normal course load.

### MOTIONS

#### Board of Undergraduate Studies

. Senate approved the replacement of P. J. Quinn by W. R. Mitchell on the DVM Program Committee.

#### Board of Graduate Studies

. Senate approved the addition of J. L. Mottin, Assistant Professor, Psychology, to the graduate faculty, effective July 1, 1973.  
. Senate approved one deletion and three additions to the graduate course list for Pathology, effective with the 1973-74 calendar.  
. Senate approved the Appraisal Brief Food Science Ph.D.

#### Committee on Membership

. Senate approved revised regulations governing election of students to Senate.

#### Committee on By-Laws

. Senate approved the making of the Committee on Teaching and Learning a standing committee of Senate with the addition of appropriate by-laws to govern its composition and duties.  
. Senate approved the creation of a special committee as the initial step towards the formation of the Standing Committee referred to in Recommendation (I) of the Report on the Aims and Objectives of the University.

### SUMMARY OF RECOMMENDATIONS

1. The primary functions of academic staff in liaison and recruiting activity should be discipline interpretation, the dissemination of knowledge and academic counselling in their own particular areas of competence.
2. The primary vehicle of communications with secondary school students should be the Ontario Universities' Information Programme. Other university activities with the secondary schools should be reviewed carefully by each university to ensure that they do not duplicate or undermine the effectiveness of the collective program.
3. Alumni activities should be governed by the recruiting guidelines.
4. Each university should develop appropriate mechanisms for the coordination of recruiting activity in all sectors of the university.
5. The visits of potential students to university campuses are encouraged.

*Continued on page 3*

SENATE Continued from page 2

6. It is inappropriate for a university to underwrite all or part of the normal cost of transportation, accommodation, and meals in relation to any program in which potential or actual applicants participate.

7. The use of the telephone should be restricted to the provision of information and counselling, only on request, and without subsidization.

8. Universities must avoid any actions that could be interpreted as implicit or explicit contraventions of agreed dates for offers of admissions, residence, or scholarships, or requests for acceptance.

9. Universities should scrutinize carefully all proposals for the use of media, to ensure that: (a) the message is a legitimate and justifiable piece of information; (b) overt or implied comparison with other institutions has been avoided; (c) characteristics of the hard-sell approach have been avoided.

10. There should be no restrictions limiting the territory in which universities may recruit within Ontario.

11. Conspicuous and extravagant campaigns of advertising or recruiting tours outside Ontario should be avoided by Ontario universities.

12. An Advisory Board on Recruiting Guidelines should be established by COU, empowered: (a) to maintain an overview of the advertising and recruiting practices of Ontario universities; (b) to advise universities in advance, on request, concerning the acceptability of proposed programs for recruiting or advertising; (c) to evaluate complaints submitted by universities, schools, or individuals; (d) to recommend to individual universities modifications in their advertising or recruiting practices; (e) to recommend to COU what action it should take in those cases where recommendations to the individual university have not brought immediate compliance.

13. In view of the urgent need for improved collective action, COU should request the Ontario Universities' Council on Admissions, the Ontario University Registrars' Association, the Ontario Council on Graduate Studies, and the Ontario Council for University Continuing Education to: (a) Review existing information vehicles in their respective areas of concern; and (b) Recommend or initiate as appropriate any improvements or new ventures which should be undertaken collectively.

## REPORT FROM BOARD OF GOVERNORS

February 22, 1973

The principal item of business before the Board of Governors last week was consideration of the tenders for the proposed OAC Centennial Arboretum Centre. They

accepted the tender of Whitman Contracting Limited in accordance with the plans submitted by architect Raymond Moriyama of Toronto.

Construction is scheduled to be completed by September, 1973, and this will permit work to be done during the fall on roads and additional planting. As a result, the general shape of the arboretum will be visible to visitors who walk through it during OAC's Centennial celebrations in 1974.

The Arboretum Centre will be located atop a high drumlin in the centre of the 330 acre arboretum. Mr. Moriyama, who is recognized as one of the most sensitive architects working in Canada, has prepared plans that will place most of the building below grade on the top of the hill so that it will not intrude unduly on the landscape surrounding it.

A submission from OVC students seeking to withdraw from campus-wide student government was tabled pending the results of a cross-campus referendum on student government.

The following appointments were approved:

### APPOINTMENTS

#### COLLEGE OF PHYSICAL SCIENCE

. Department of Chemistry, George Ferguson, Professor and Acting Chairman

#### ONTARIO AGRICULTURAL COLLEGE

. Department of Food Science, John M. deMan, reappointed Professor and Chairman .

. School of Agricultural Economics and Extension Education, Karl D. Meilke, Assistant Professor.

#### ONTARIO VETERINARY COLLEGE

. Department of Biomedical Science, Harold W. Chapman, Associate Professor.

. Department of Veterinary Microbiology and Immunology, Bruce N. Wilkie, Assistant Professor.

#### CENTRAL ADMINISTRATION

. Office of Alumni Affairs and Development, David G. Webster, Alumni Officer and Editor.

. Office of Director, Administrative Services, Gordon H. Mann, Director of Food Services.

### MOTIONS PASSED

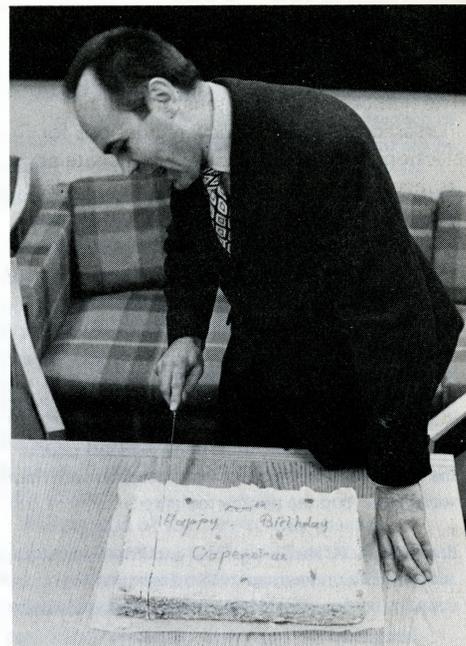
. That the Board approve the construction of the OAC Centennial Arboretum Centre at a total estimated project cost of \$400,000, with the award of a contract to Whitman Contracting Limited in the amount of \$318,770.

. That the appointments as presented be carried.

. That the board accept a presentation by Professor N. Bowen concerning a research project.

## Food Ombudsman

A student ombudsman for food service has been appointed. Phillip Chan will act in the position until the end of the semester, reporting directly to the Food Service Advisory Committee. His office is on the balcony of Creelman Hall, Ext. 8350. David Larone will take the position over for the spring semester.



*Dr. Edward Obryk, visiting professor in the Physics Department, cuts a birthday cake celebrating the 500th birthday of Copernicus, whose work in Poland almost 500 years ago marked the beginning of modern science. Dr. Obryk, whose visit here is sponsored by the Institute of Particle Physics of Canada, received his Ph.D. from the Jagellonian University in Krakow where Copernicus studied.*

## Master of fortepiano at noon hour concerts

Professor Malcolm Bilson, master of the Fortepiano, will be featured at the Thursday noon hour concert March 8.

The instrument played by Professor Bilson in his recitals is an exact replica, by Philip Belt, of a concert fortepiano built in 1773 by Johann Andreas Stein, whose pianos Mozart praised so highly. (The original Stein is in the Smithsonian Institution in Washington). This fortepiano has a range of five octaves and two notes; the dampers are raised by means of a knee-lever (the pedal was a later invention). The paper on the inside of the lid is copied from an early piano in the Yale University Collection.

Malcolm Bilson is a professor of piano at Cornell University and a member of the Cornell University Trio. He graduated from Bard College in 1957 and was awarded a Fullbright Fellowship. He studied in Vienna and Paris before becoming a full-time faculty member of the University of Illinois. He competed in the Rudolph Ganz Piano Competition in Chicago and was awarded the first prize.

Professor Bilson's program will include Mozart, Cramer and Clementi.

Noon hour concerts are held at 12:10 and 1:10 in Music Room 107 Arts.

## FACULTY ACTIVITIES

**Professor John T. Powell**, Human Kinetics, spoke to the nurses-in-training at St. Joseph's Hospital on the topic, Hypo-kinetic diseases.

**Professor P. B. Little**, Pathology, gave two talks at the 91st annual meeting of the Illinois State Veterinary Medical Association which was held in Arlington Heights, Illinois. He spoke on Clinical signs, transmission and diagnosis of respiratory disease in feedlot cattle and Encephalitis of feedlot cattle.

**Professor H. C. Carlson**, Pathology, spent a week out west when he addressed the 22nd Alberta Poultry Industry Conference in Edmonton on Newcastle Disease. He also spoke to an undergraduate class at the Western College of Veterinary Medicine on The veterinarian and the poultry industry.

**Professor R. R. Hacker**, Animal and Poultry Science, addressed dairy meetings in Middlesex and Elgin counties on the topic, Milk-secretion and stimulation.

**Professor C. G. Gray**, Physics, recently delivered a seminar to the Physical Chemistry and Chemical Engineering Departments of the University of Florida entitled, Theory of collision-induced infrared absorption.

**Professor R. R. Forster**, **Professor O. R. Scott**, **Professor L. M. Wester** and **R. MacDonald**, Landscape Architecture, participated in an Ontario Hydro Interdisciplinary Workshop on methodology for assessing visual impact of Ontario Hydro Transmission line corridors.

**Professor Richard R. Forster**, Landscape Architecture, participated in a Central Mortgage and Housing Corporation pilot workshop on ecological planning in Southern Ontario which was held to assess recent experience and to determine future research strategies for the Corporation.

**Professor A. Zitnak**, Horticultural Science, and **Professor D. C. Hill**, Nutrition, attended the international conference on chronic cyanide toxicity in cassava in London, England. Professor Hill presented a paper on chronic cyanide toxicity in domestic animals, while Professor Zitnak presented a critical evaluation of cyanide determination methods for plant tissues. Following the conference, Professor Zitnak visited the Food Research Institute in Norwich and presented a paper on the occurrence of glycoalkaloids and their buildup in relation to potato bitterness. Both participants visited the Tropical Products Institute. The Conference was sponsored by the Canadian International Development Research Centre and was organized by Dr. Barry L. Nestel, Associate Director of the IDRC.

**Professor L. Busch** and **Professor F. McEwen**, Environmental Biology, were among the speakers at the Third Annual Ontario Potato Conference held at the Holiday Inn, Cambridge. Professor Busch spoke on infra-red disease survey for verticillium wilt, and Professor McEwen on aphids in potatoes.

**Professor M. K. Kremer**, Languages, represented the University of Guelph at a recent meeting of chairmen of German departments in Ontario universities. The meeting, held at the University of Toronto, was called to discuss the crisis at Trent University.

**Professor H. D. Ayers**, Engineering, was in Ottawa where he attended the Canadian Committee on Agricultural Engineering meeting. The initial meeting of Ontario Agricultural Service Coordinating Committee in agricultural engineering was held.

**Professor P. S. Chisholm**, Engineering, attended a three day meeting at the Inland Waters Directorate of Department of Environment in Ottawa. The meeting finalized the directorate budget for funding water resources research at six university centres.

**Professor I. L. Nonnecke**, Horticultural Science, was a speaker at the 1973 National Carrot Conference in Sanford, Florida. He spoke on the role of carrot production on organic soils in Ontario.

**Professor B.J.E. Teskey**, Horticultural Science, gave a talk to the Ontario Association of Agricultural Technologists in Guelph on conservation and agriculture. In his illustrated talk, Professor Teskey described the unique developments of Bronte Provincial Park.

**Professor I. L. Nonnecke**, Horticultural Science, presented a paper on seeding techniques and precision seeding of cucumbers at Ridgetown College of Agricultural Technology, at the 1973 Ontario Pickling Cucumber School.

**Professor Henry Wiseman**, Department of Political Studies, appeared as a member of a panel recently at the Toronto Men's Branch of the Canadian Institute of International Affairs. The subject was North American Air Defence. Other panelists were Dr. J. C. Arnell, special advisor to the Deputy Minister of National Defence and John Gellner, military analyst.

**G.A.B. Moore**, Director, and **Ian Easterbrook**, Audio Visual Services, conducted a professional development seminar-workshop for the Waterloo County School Board on the subject, multi-media in the classroom.

## PUBLICATIONS

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Boyle, J. W., 1973. Review of Ireland and the Irish Question. A Collection of Writings by Karl Marx and Frederick Engels, ed. by R. Dixon (1972). *Labor History*, XIV, 1, Winter 1973. Review of The Life of Times of James Connolly, by C. Desmond Greaves (1972). *Labor History*, XIV, 1, Winter 1973. (History)

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Stockdale, P.H.G., O. Remmler and M. A. Fernando, 1972. Pulmonary lesions in pheasants immunized against *Syngamus trachea* by chemically abbreviated infections. *Avian Dis.* 16: 980-985. (Clinical Studies and Pathology)

Ollerhead, R. W. and A. Rae, 1972. A hardware switch between teletype and display terminal as system-control device. *Decuscope*, Vol. 11, No. 5, 21-22. (Physics)

MacKenzie, I. K., C. W. Schulte, T. Jackman, and J. L. Campbell, 1973. Positron transmission and scattering measurements using superposition of annihilation lineshapes: Backscatter coefficients. *Phys. Rev. A7*, 135-145 (Physics)

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Hung, F., 1972. Notes on Comparative Development of India and China, by Chen and Uppal (1971). *Geog. J.*, Vol. 138, Part 4 (Dec. 1972), 517. (Geography)

Piggins, D., J. R. Kingham and S. M. Holmes, 1972. Colour, colour saturation, and pattern induced by intermittent illumination: an initial study. *Brit. J. of Physiological Optics.* Vol. 27, No. 2, 120-125. (Psychology)

Sprague, J. B., 1973. Aquatic resources in the Canadian north: knowledge, dangers and research needs. pp. 168-189 in *Arctic Alternatives*, ed. Pimlott, D. H., K. M. Vincent and C. E. McKnight. Canadian Arctic Resources Committee, Ottawa, 391 pp. (Zoology)

Taggart, Gilbert and G.A.B. Moore, 1972. The use of closed-circuit television for oral tests in the language laboratory. *Newsletter of the National Association of Language Laboratory Directors* Vol. VII, No. 1, Oct. (Audio Visual Services)

Atwal, O. S., 1973. Fatty changes and hepatic cell excretion in avian liver - An electron microscopical study of Kepone toxicity. *J. Comp. Path.* 83: 115-123. (Biomedical Sciences)

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Cihlar, J. and R. Protz, 1972. Color-film densities for soils P. 1. *Photogrammetric Engineering* 38: 1091-1098. (Land Resource Science)

Cihlar, J. and R. Protz, 1972. Perception of tone differences from film transparencies. *Photogrammetria* 8(4): 131-140 (Land Resource Science)

Presidente, Paul J.A., 1972. Pathogenicity of experimentally induced concurrent infections of *Fasciola hepatica* and *Haemonchus contortus* in sheep. *Diss. Abstr.* 33: 1860-B. (Pathology)

## Day care centre plans in full swing

A feasibility study is now under way, supported by a LIP grant, to investigate the possibility of establishing a day-care centre on the campus. If the result of the study is in the affirmative, the target date for opening the centre would be September, 1973.

A house has been tentatively set aside by the University to accommodate the centre, subject to the findings of the study. The University has also agreed to make certain renovations to the house provided other necessary conditions are met. The centre will be geared primarily towards meeting the needs of married students, but the children of other members of the university community may also be accommodated. The proposed centre would be planned especially to meet the needs of children up to 2½ years old, but it may be necessary to include older children as well.

The cost of operating such a day care centre has yet to be determined, and it is hoped that individual subsidies may be available for those with limited means. Fee reduction may also be possible for parents who volunteer on a regular basis.

Forms which will aid the study group in assessing the need for such a day care centre may be obtained from the Campus Co-op at 824-4120, Extension 8169, or Box 1150, Guelph.

The project is presently being coordinated by Stephanie Rauser, a University of Guelph graduate whose area of specialization is in early childhood education. Others involved in laying the groundwork for the centre include: Alice McNeish, program research; Richard Mogford, facilities designer; and Janice Poole, part-time secretary.

## Cheese courses held

The Department of Food Science gave a one week course on foreign type and specialty cheese manufacture for ten persons associated with the Dairy Industry in Ontario.

In addition a three day course on cheddar cheese manufacture was given for six persons employed by government or cheesemaking plants in Ontario and Manitoba.

## Articles for sale

The Surplus Department has the following articles for sale:

- 9 Spencer AO Microscopes, Powers 3.5X, 10X, 44X. \$55.00 each;
- 1 frigidaire 4 burner 24" electric stove;
- 1 upholstered 4 seater chesterfield;
- 1 duo-therm space heater;
- 1 Westinghouse dishwasher.

Anyone interested in any of these items, please phone extension 2105.

## Post mortems investigate animal diseases

Autopsy procedures are taught to third year veterinary students; a dog is given a post mortem examination to determine the cause of death; research into shipping fever, a major killer among cattle, is carried on . . . What do these three activities have in common? They all involve use of the Ontario Veterinary College's Post Mortem Room, a facility that plays a role in teaching, research and service to the community.

The P.M. Room, located at the junction of the OVC's Main building and the Clinical Studies building, is used for the performance of autopsies on animals as a means of studying disease. It is staffed by members of the Pathology Department and the Ontario government's Veterinary Services Branch. While most autopsy procedures are carried on in this room, members of the Pathology Department perform similar examinations in several other laboratories at the OVC. For instance, two labs in the Veterinary Microbiology building are used for dissections of fur-bearing animals, wildlife and fish.

The conduct of an autopsy is a methodical dissection of the diseased animal to discover the tissue and organ changes which have led to death. This process often involves the use of a wide variety of disciplinary approaches such as light microscopic and ultrastructural tissue examinations, biochemical and toxicological determinations and virologic and bacteriological evaluation of diseased tissues. The trained pathologist with such information at hand is then in a position to reconstruct

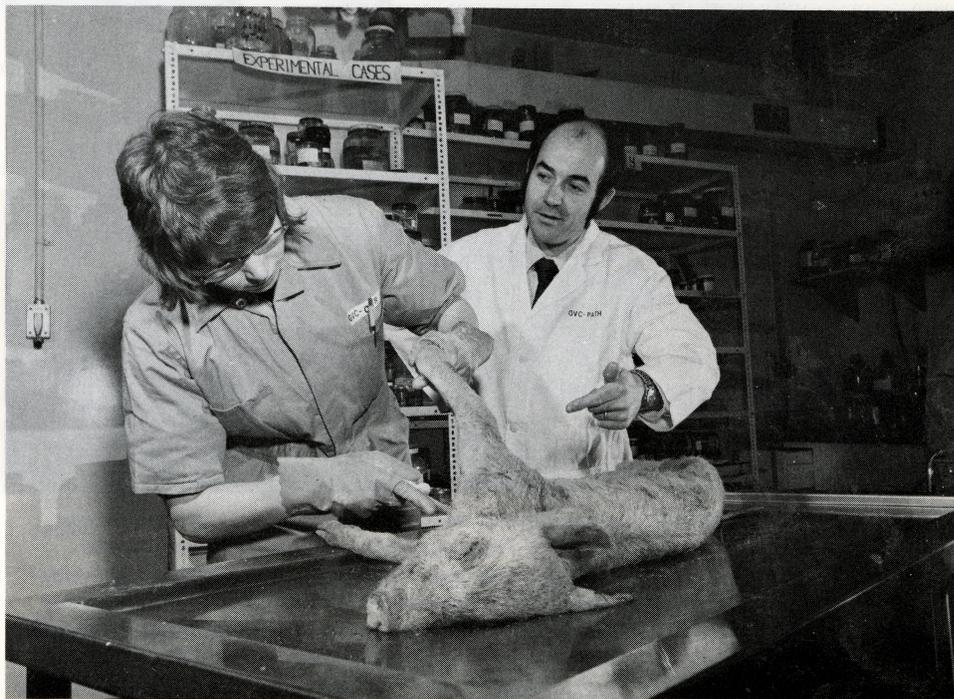
the historical development of disease in the animal and make a decision on the cause of death.

Veterinary students are introduced to the P.M. Room in their third year, so that they may learn the techniques required for performing an autopsy, says Professor P. B. Little of the Pathology Department. Then in their fourth year they are especially made aware of the correlations between clinical and pathological aspects of disease — by examining the sick animal in the clinic and, in fatal cases, by examining the organ involvement in the P.M. Room.

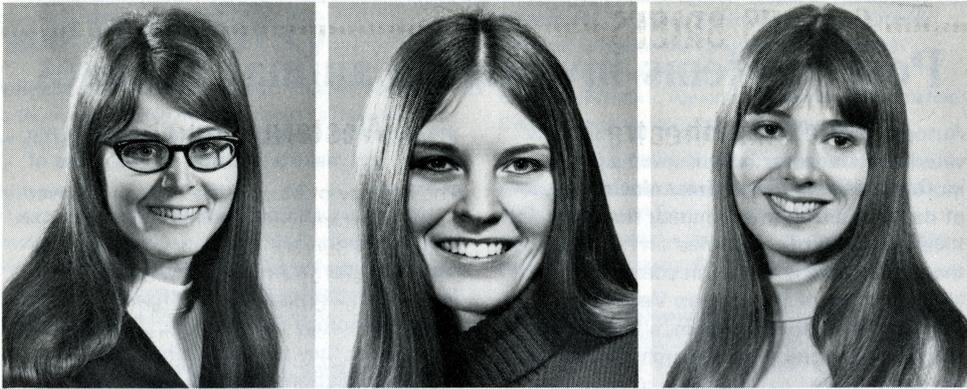
Arising out of the day-to-day disease problems that are investigated in the P.M. Room are several research projects. These include studies of animals afflicted by respiratory diseases, abortion, neurological diseases and environmental contamination.

The third main function of the P.M. Room and the associated faculty is to provide a service for the OVC Large and Small Animal Hospitals and Ambulatory Clinic with Veterinary Service Branch personnel handling specimens from further afield in the province.

Teaching, research and service are the central functions of the P.M. Room. However, the faculty members concerned also advise researchers from other University departments when expertise with animal disease problems is required. Such consultation is usually arranged on an *ad hoc* basis through Professor R. G. Thomson, Chairman of the Pathology Department.



Elizabeth Ladyman, left, a fourth-year student at the Ontario Veterinary College, makes a post mortem examination of a pig which has died of bacterial pneumonia while Professor P. B. Little of the Pathology Department offers advice. The Post Mortem Room, in which such examinations take place, is used for teaching, research and service functions.



Finalists for College Royal Queen contest from the left, Liz Moore, Charmaine Adams and Sylvia Matthews.

## Queen will be crowned at ball

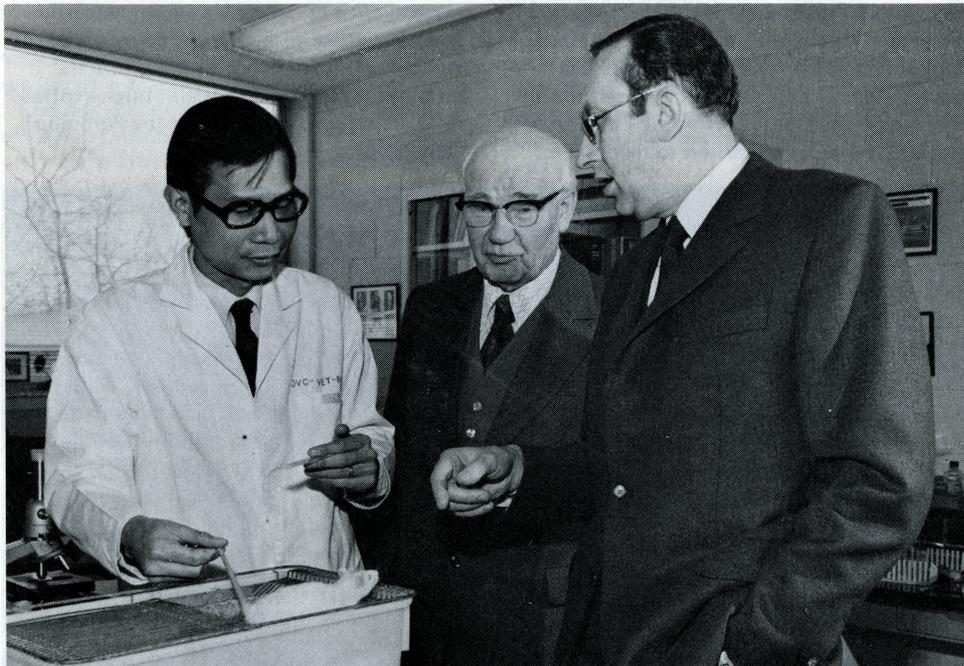
College Royal, in its 49th year, starts tomorrow with the Ball, in the Physical Education gym and a concert in War Memorial Hall. Saturday the cake baking contest will be held at Macdonald Institute and the livestock evaluation competition in the dairy judging pavilion, both in the morning. In the evening an Impact concert in War Memorial Hall features the Stampede and Downchild Blues Band.

The College Royal variety show, this year called Hallelujah '73, is Sunday evening in

War Memorial Hall. Curtain Call is also held in War Memorial Hall from March 7 - 10.

Tuesday, March 6, is Pub Night, with one pub in Macdonald Hall cafeteria and another in the Wharf.

The big College Royal weekend is March 9 - 11 with the dog show Friday night, the fashion show Saturday and show day and cross-campus open houses all day Saturday and Sunday. A new feature this year is the animal farm at the dairy barn on Sunday, March 11, from 11 - 5 p.m.



Dr. Patrick Woo, left, discusses trypanosomiasis research on rats with visiting parasitologist, Dr. W. Kretchmar, right, of the Institute of Tropical Medicine, Tubingen, Germany, and Professor M. A. Soltys, Veterinary Microbiology and Immunology. Dr. Kretchmar delivered two lectures on parasitic diseases, particularly malaria and trypanosomiasis-induced sleeping sickness in humans and nagana in cattle, and their socio-economic effect on tropical countries while on campus last week. Dr. Kretchmar, who is spending a year at Ohio State as a visiting professor, does his field work in southern Nigeria where he says 40% of the children die before the age of four years, with malaria a large contributing factor in many of these deaths. Malaria is a protozoan living in the blood cells, carried by the mosquito. Dr. Kretchmar's research is concerned with finding a substance which will block enzymes essential to the parasite, but not essential to the host, in this case, man. Dr. Soltys and Dr. Woo are working on trypanosomiasis research at the Department of Veterinary Microbiology and Immunology.

## Canadian folk concert opens College Royal



Dorothy Hogan

Country and folk music will launch College Royal at an all Canadian music festival in War Memorial Hall, Friday March 2. The festival, called Maple Sugar after an old Canadian fiddle tune, brings together the Guelph Madrigal Singers and folk musicians from the University and the area.

Dorothy Hogan, director of Maple Sugar, says the Canadian people have been singing songs about their work, their homes, their joys and woes for 200 years, but this is the first time people in this area have had a chance to hear their country and folk music in concert.

Maple Sugar will tell the story of Canada in song, opening with Ian McCrimmon's Scottish pipes and featuring Eleanor Moorehead and her Country Combo and the Madrigal Singers with political ballads like those written by Louis Riel, songs of the forest, prairies and Maritimes.

Among the soloists are Pat Moorehead with her strong country guitar, Nickolaus Kaethler, Robert Missen, Judy Greenhill, Esther Ewing and Dorothy Hogan. They will be supported by a battery of guitars, drums, banjos, recorders, fiddles and bagpipes.

Tickets are available from Central Box Office or choir members at \$2 general admission, \$1 students and senior citizens and 50¢ for children under 13. The concert will be repeated at Glendon College of York University, in keeping with York's Canadian Studies program, on March 9.



## Agricultural lecture

Dr. J. C. Gilson will be giving this year's J. S. McLean Memorial Lecture, entitled *A western view of Canadian agricultural policy*.

Dr. Gilson is Vice President for Graduate Studies and Research at the University of Manitoba where he was previously head of the Department of Agricultural Economics. In 1969-70 he was a member of the Federal Task Force on Agriculture. He is presently a member of the Science Council of Canada. Because of his numerous contributions to the development of Canadian agriculture, Dr. Gilson was made a Fellow of the Agricultural Institute of Canada in 1966.

The J. S. McLean Memorial Lecture is an annual campus event sponsored by Canada Packers Ltd. in memory of the company's late president.

The lecture will be given at 8 p.m. on March 8 in Room 105, Physical Sciences 105.

## Research grant call

(For further information see *Department Chairman*)

1. The Ontario Ministry of the Environment sponsors research that will reduce the overall use of pesticides. Deadline for proposals is March 10, 1973.
2. The Royal Society — Nuffield Foundation Commonwealth Bursaries Scheme provides for scientists of proven ability to work with scientists of another Commonwealth country. The bursaries provide for travel costs and subsistence of \$80 per month and are tenable for 6 - 12 months. Deadline for applications is March 15.
3. Elin Wagner Foundation Fellowships are open to men and women who wish to research into the history of womankind. Closing date is March 15, 1973.

## Job opportunities

*New Listings as of February 23, 1973*

*Technician II (Grant Position)*, Environmental Biology. Salary range: \$111.17 — \$161.28.

*Technician III*, College of Biological Science. Salary range: \$123.39 — \$178.31.

*Cartographic Assistant*, Geography. Salary range: \$77.93 — \$130.06.

*Dairy Herd Attendant*, Animal and Poultry Science. Salary rate: start - \$119.16; 6 month - \$124.55; 1 year - \$129.94.

*Clerk-Typist*, Registrar (Records and Programs). Salary range: \$77.94 — \$111.47.

*Typist*, Continuing Education. Salary range: \$67.53 - \$83.92.

For further information on the above positions please see Bulletin Boards or call Extension 3058 or 3059.

## Free film theatre

W. C. Fields stars as the Great McGonigle, manager of a troupe of amateur thespians, in the 1934 classic *The Old-Fashioned Way*. Besides tangling with the law, temperamental performers and aspiring actresses, Fields finds himself the object of Baby LeRoy's pranks. A performance of a popular melodrama called *The Drunkard* punctuates the comedy. The next two chapters of *Dr. Satan* will also be shown. Showtime is Friday, March 2 at 8 p.m., in Physical Science 105. Please come early — it's FREE!

## Cello lessons

Guelph children have been taking violin lessons by the Suzuki method for several months. A member of the Hamilton Philharmonic will begin cello lessons for children over five, if enough are interested. Cello rental can be arranged. For further information call Mrs. Gail Lange, 821-2273.

## Drama workshop comedy

W. S. Gilbert's farcical comedy of pre-marital complications, *Engaged*, will be presented by the production III class of the Division of Drama. *Engaged*, the first major production of the Winter semester, opens Tuesday, March 6 and runs through Saturday, March 10 in the Drama Workshop. The play, directed by Michael Booth, is a clever farcical comedy of fantastic marital complications and financial greed, set in a Victorian Britain that seems anything but prim and proper. *Engaged* first appeared in 1877, just after Gilbert had started his famous collaboration with Sullivan on the Savoy operas. Tickets are now available and may be reserved in advance from Central Box Office, at \$1.00 general, 50¢ students. Light-hearted and witty, *Engaged* promises an evening of laughter, enjoyment, and good family entertainment.

## Visiting sociologist

Family Sociologist Robert N. Whitehurst, of the University of Windsor will give two talks on Monday, March 5. At 12:10 in Physical Science 105 he will lecture on Alternative family forms, and at 3:10 in Textiles and Design building, 205 he will discuss Changing attitudes toward marriage. Professor Whitehurst is a member of the American Association of Marriage Counselors and has contributed articles to periodicals on marriage adjustment, extra-marital sex, and youth and social change in the context of marriage. He has co-authored with Lester Kirkendall the book *The New Sexual Revolution*.

## Western choir here

The Faculty of Music Singers of the University of Western Ontario will sing at Chalmers Church on Sunday, March 4 at 8 p.m. The choir is made up of Western music students and has been chosen to represent Canada at the 1973 American Choral Directors Association in Kansas City. Choir director Professor Deral Johnson is also the 1973 conductor of the Ontario Youth Choir. This choir is singing under the auspices of the Guelph United Church evening services committee.

## Visiting rabbi

Rabbi Stephen Franklin of Toronto's Holy Blossom Temple, will be a visitor on campus next Tuesday, March 6, and Wednesday, March 7. While on campus Rabbi Franklin will be participating in a number of programs, including a talk on Jewish philosophy, with particular reference to medieval scholarship, and an evening at Newman House devoted to exploring historical — theological relationships between Judaism and Christianity.

Rabbi Franklin's visit is sponsored by the Jewish Chautauqua Society, an affiliate of the National Federation of Temple Brotherhoods. He will be staying in Lennox 147, as part of the Department of Student Affairs' faculty-in-residence program. Interested individuals will be able to meet informally with Rabbi Franklin while he is on campus.

For further information, please contact the Department of Student Affairs, ext. 3953.

## Poetry reading

Poetry readings are held every Friday at noon in Music Room 107 of the Arts building. This Friday, March 2, Drama professor Michael Booth will read W. S. Gilbert's "A Nightmare" and "Etiquette." Sven Van de Ven and Susan Filshie will also read this Friday. Next Friday, March 9, the program will feature readings by English professor Gerald Manning.

## Sports medicine symposium

A student organized program on sports medicine including movement, rehabilitation and injury will take place tomorrow and Saturday, March 2 and 3. The third annual Sports Medicine Symposium is sponsored by the students of the Department of Human Kinetics and the College of Biological Science. The program attempts to draw closer together the medical profession and young exercise scientists. Among the topics to be discussed are: the myths of activity in children, the place of psychology in sport, drugs and athletes. Philosophy professor J. McMurtry will speak at the banquet.

# NEXT WEEK AT GUELPH

## THURSDAY, MARCH 1

**Biology Hour** – THE BIOLOGY OF A UNIVERSITY, by President W. C. Winegard. 6th in the Biology Hour series. 12 noon, Botany/Genetics-Zoology 130.

**Lecture** – LOVE: VARIATION ON A VERY OLD THEME, by Prof. G. Bartocci, Languages. 1st in the Biography of Love series. Fee – \$5 for 6 sessions. 8 p.m. Arts 107.

**Music** – COLLEGIUM MUSICUM CHOIR, from Waterloo Lutheran University. 12:10 to 12:45 and 1:10 to 1:45 p.m., Arts 107.

**Seminar** – ONE-TRIAL EDUCATION OF ATTENTION, Dr. Dean Owen, Psychology Department, Ohio State University, 4 p.m. Landscape Architecture, 204.

**Lecture** – UNIQUE CHARACTERISTICS OF ROMAN ART IN GAUL, by Prof. G. Picard. 10 a.m., Arts 114.

**Film** – EASY RIDER. War Memorial Hall. 6, 8:15 and 10:30 p.m.

**Radio** – HEIDELBERG HI-LITES. University of Guelph news program. CJOY 1460, 6:15 p.m. Monday – Friday.

**Meeting** – THE ROLE OF WOMEN, Marilyn Bell and Professor Mary Rogers and student panel sponsored by Inter-varsity Christian Fellowship, 7:30 p.m., 9th floor lounge, Arts.

## FRIDAY, MARCH 2

**Music** – MAPLE SUGAR – A FESTIVAL OF CANADIAN FOLK MUSIC, Sponsored by The Madrigal Singers. Tickets \$2 general, \$1 students and senior citizens, and 50¢ for children, at the Central Box Office. (See story in this issue of News Bulletin).

**Dance** – COLLEGE ROYAL BALL AND CROWNING OF QUEEN. College Royal continues through to Sunday, March 11.

**Symposium** – SPORTS MEDICINE, contact the School of Physical Education.

**Poetry Reading** – PROFESSOR MICHAEL BOOTH, Sven Van de Ven and Susan Filshie in Music Room 107, Arts. 12 noon.

**Seminar** – ENZYME CONFORMATION IN BIOCHEMICAL CONTROL, G. K. Radda, Oxford University, 2 p.m. Chem-Micro 260.

**Worship** – MUSLIM JUMA PRAYER, 1 p.m., Arts 315.

**TV** – SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 5 p.m.

## SATURDAY, MARCH 3

**Concert** – STAMPEDERS & DOWNCHILD. Impact series. 6, 8:15 and 10:30 p.m., War Memorial Hall.

## SUNDAY, MARCH 4

**College Royal** – HALLELUJAH '73, College Royal Variety Night. 8 p.m., War Memorial Hall.

**Worship** – ANGLICAN EUCHARIST, 9:30 a.m. 9th floor lounge, Arts; R. C. MASS, 11 a.m. War Memorial Lounge; MUSLIM ZUHR PRAYER, 1 p.m., 9th floor lounge, Arts.

## MONDAY, MARCH 5

**Lecture** – ALTERNATIVE FAMILY FORMS, R. N. Whitehurst, Sociology, University of Windsor. 12:10, Physical Science 105.

**Lecture** – CHANGING ATTITUDES TOWARD MARRIAGE, Prof. R. N. Whitehurst, Sociology, University of Windsor. 3:10, Textile and Design 205.

**Lecture** – RESEARCH ON ENVIRONMENTAL CONCERNS. Panel moderator: D. P. Ormrod. Panelists: F. A. Dahms, F. L. McEwen and J. B. Sprague, 5th in the Nature of Research series. 8 p.m., Physical Science 101. No fee.

**Course** – UTILITY PROGRAMS, D. Reynolds, continues Tuesday, 9 - 12 a.m. ICS 212. Call Ext. 3046 to register.

**TV** – SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 7 p.m.

The News Bulletin is published every Thursday by the University of Guelph's Department of Information. News items must reach the Information Office, Room 361, McLaughlin Library (Ext. 3863) by noon Friday. Articles and news items may be quoted or reproduced in full.

**NEWS  
BULLETIN**

UNIVERSITY OF GUELPH

## TUESDAY, MARCH 6

**Lecture** – THE SIGNIFICANCE OF ONTARIO'S CONTRIBUTIONS IN ART AND ARCHITECTURE, by Prof. G. R. Couling, Fine Art. Ontario and Ontarians series. 8 p.m. 9th floor lounge, Arts. Gen. adm. \$2.50, students, \$2.

**Luncheon** – COLLEGE WOMEN'S CLUB LUNCHEON AND FASHION SHOW. 1 p.m., Macdonald Hall. \$3 per person. Babysitting available.

**Drama** – ENGAGED, by W. S. Gilbert, directed by Prof. Michael Booth. Gen. adm. \$1, students, 50¢. Reserved seats from Central Box Office. 8 p.m., Drama Workshop. Continues to March 10.

**Course** – PERSONAL CANADIAN INCOME TAXES commences. \$15 for 6 sessions. Ext. 3956 for further information.

**Seminar** – PRODUCTIVITY OF ORGANIC SOILS, by John Slot. 1:30 p.m. Landscape Architecture 202.

**Colloquium** – QUASI-ELASTIC LIGHT SCATTERING FROM MACRO-MOLECULES, by Dr. R. Pecora, Chemistry, Stanford University. 4 p.m., Physical Science 113.

**Course** – APL STATISTICS, Dr. A. Sheth, 1:30 - 4:30, continues on Thursday, ICS 212. Call 3046 to register.

**Worship** – R. C. MASS, 12 noon, Newman Center, 325 Gordon St.

## WEDNESDAY, MARCH 7

**Lecture** – DOING BUSINESS WITH CHINA, by Norman A. Endicott, Compportex Trading Ltd., Toronto. One of the Focus on China '73 series. 8 p.m., Arts 227. \$2 per lecture.

**Meeting** – HISTORICAL – THEOLOGICAL RELATIONSHIPS BETWEEN JUDAISM AND CHRISTIANITY, Rabbi Stephen Franklin, 7:30, Newman Centre.

**Variety Show** – CURTAIN CALL, 8 p.m., War Memorial Hall, continues to Saturday, March 10.

**Seminar** – COMPUTER ALLOCATION AND CHARGING, D. Oldacre, 10:30 - 12 a.m., ICS 212.

**Seminar** – ECONOMIC IMPACT OF ENVIRONMENTAL LEGISLATION ON THE PESTICIDES INDUSTRY, D. Menkhaus, Purdue University, 3:30 p.m., Ag. Ec. & Ext. Ed. 302.

**Worship** – ANGLICAN EUCHARIST. 12 noon. 2nd floor lounge, Macdonald Hall.

## THURSDAY, MARCH 8

**Biology Hour** – SMOKING SPIRAL, film. 12 noon, Botany/Genetics – Zoology 130. Bring a lunch.

**Lecture** – ENGAGED WITH GILBERT: A SATIRIST'S EYE-VIEW OF MANKIND, Dr. Jane Stedman, Roosevelt University, Chicago; 4:15 p.m., Arts 029.

**Lecture** – THE SEVENTH VEIL OF SALOME, Prof. H. Hurwitz, Psychology. 2nd in the Biography of Love series. 8 p.m., Arts 107. Series fee \$5.

**Noon hour concert** – MALCOLM BILSON, FORTEPIANO. 12:10 to 12:45 and 1:10 to 1:45 p.m. Music Room 107, Arts.

**Lecture** – A WESTERN VIEW OF CANADIAN AGRICULTURAL POLICY, J. S. McLean Memorial Lecture by Dr. J. C. Gilson, University of Manitoba, 8 p.m. Physical Science 105.

## FRIDAY, MARCH 9

**Lecture** – LABORATORY DEVELOPMENT TO SUPPORT KINESIOLOGICAL ANALYSIS OF HUMAN MOTION, by Dr. David E. Kelley, University of Maryland. 2:10 p.m. Soils 124.

**College Royal** – DOG SHOW. Physical Education arena.

**Film** – THE SABOTEUR. Free Film Theatre. 8 p.m. Physical Science 105.

## KEEP THESE DATES

**March 10** – COLLEGE ROYAL LIVESTOCK SHOW, OPEN HOUSE ACROSS CAMPUS.

**March 11** – COLLEGE ROYAL OPEN HOUSE, continues.

**March 14** – FACULTY CLUB LUNCHEON AND FASHION SHOW.

**March 29** – FARLEY MOWAT, speaking on campus.

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