# UBC's enrolment expected to hit all-time high

Enrolment at UBC is expected to hit an all-time high this year, the University's Board of Governors was told last week.

Spring term enrolment figures showed a 5.7% increase over last year, [illegible] full-time students.

The increase is due to a combination of factors, including a decline in the number of students who withdrew from classes, a decline in the number of students who failed classes, and a decline in the number of students who graduated.

Preliminary figures show that the number of students who withdrew from classes was [illegible] last year.

Dr. Douglas Kenny, vice-president, Student Services, said the decline in withdrawals is due to a combination of factors, including a decline in the number of students who failed classes, and a decline in the number of students who graduated.

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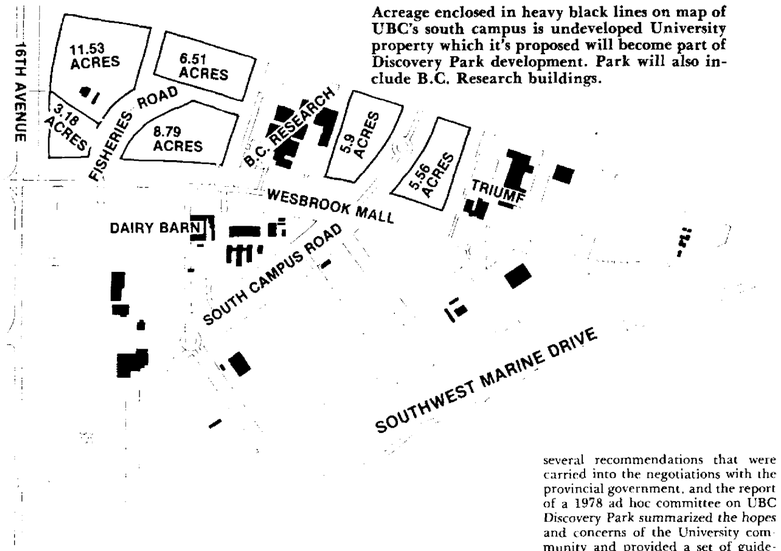



**Acreage enclosed in heavy black lines on map of UBC's south campus is undeveloped University property which it's proposed will become part of Discovery Park development. Park will also include B.C. Research buildings.**

**PARK**
**Continued from page 1**

will also provide research opportunities for students and faculty at UBC."

The Discovery Park concept has been under review by UBC academic and administrative bodies for more than two years.

In June, 1977, each UBC faculty was asked to provide comments and views about the concept of a research park on campus. The replies, which were summarized and forwarded to the provincial government, were uniformly positive.

UBC's executive committee on research and the advisory board on grants, contracts and research policy both responded enthusiastically to the Discovery Park concept, particularly in relation to the opportunities it would provide to increase interaction between researchers at UBC and those from industry and government.

UBC's committee of deans made several recommendations that were carried into the negotiations with the provincial government, and the report of a 1978 ad hoc committee on UBC Discovery Park summarized the hopes and concerns of the University community and provided a set of guidelines which formed the basis of all subsequent negotiations.

UBC's Board of Governors has been carrying out continuing negotiations with Discovery Park Industries through most of 1979. Both sides expect a final agreement to be reached before the end of the year.

The area to be designated Discovery Park lies between Wesbrook Mall and the eastern boundary of the UBC campus. The park would begin at 16th Avenue and run south as far as TRIUMF the nuclear research facility located at UBC. (See map on page 2.)

Included in the tract are 46 acres of undeveloped UBC land and roads as well as a 12-acre site occupied by B.C. Research, an independent, non-profit industrial research institute which offers services in the fields of applied biology and chemistry, engineering physics and management services.

One of the matters being negotiated is the University's right to approve all buildings and tenants, thus ensuring that research undertaken will be related to University interests and expertise. In his letter to faculty members, President Kenny said, "Naturally, the University will look most favorably on those applicants whose work will encourage fellowships, student aid and student summer employment."

Here are some of the details which have been the subject of the negotiations which are now nearing completion:

- Ownership of the land will remain with UBC and will be leased to Discovery Park Industries Ltd.;
- UBC will be represented on a board of management responsible for the day-to-day administration of Discovery Park;
- The University will approve all tenants and buildings in the park;
- Any land not used within 15 years will automatically revert to the University;
- All buildings in the park will become UBC property at the termination of the lease;
- All facilities in the park will be open to inspection by UBC officials at any time;
- All tenants must meet UBC standards with respect to environmental and pollution control; and
- Any expenses associated with the removal of University buildings, properties, services, etc., to other UBC areas will be borne by the developer at no cost to UBC.

# Minister promises look at student aid plans

Education minister Pat McGeer has agreed to review the need for improvements to existing financial aid programs for post-secondary students following a meeting with the presidents of B.C.'s three public universities.

UBC president Douglas Kenny said that in addition to reviewing items of concern noted by the presidents, the education minister has also agreed to review the Universities Council of B.C. report on financial aid and to provide responses to the report's recommendations.

During their meeting with the education minister the three presidents pointed out a number of inequities in the current system of financial aid for post-secondary students. These inequities underline a need to:

- Provide some grants as the first available option for students with exceptionally high need, followed by a mixture of loan and grant moneys;
- Give graduate students access to grants currently restricted to undergraduate students;
- Provide grants which reflect the extra costs faced by rural students moving to educational opportunities in urban centres;
- Reduce the impact scholarships and bursaries have in determining the size or amount of loans and grants;
- Adopt more realistic need-assessment tests for part-time students;
- Inform potential university students about available financial aid programs as early as grade 8, so that they can make informed choices about academic and vocational programs;
- Urge changes to the Canada Student Loan Programs to develop more realistic criteria for assessing a student's financial dependence on parents and to reduce the amounts of expected parental contributions in cases of established dependency.

**SENATE**
**Continued from page 1**

September meeting, said credit courses proposed for the UBC Calendar were subject to scrutiny at a number of levels within the University, but "it's not clear to me what scrutiny is involved in the selection of courses offered through the Centre for Continuing Education."

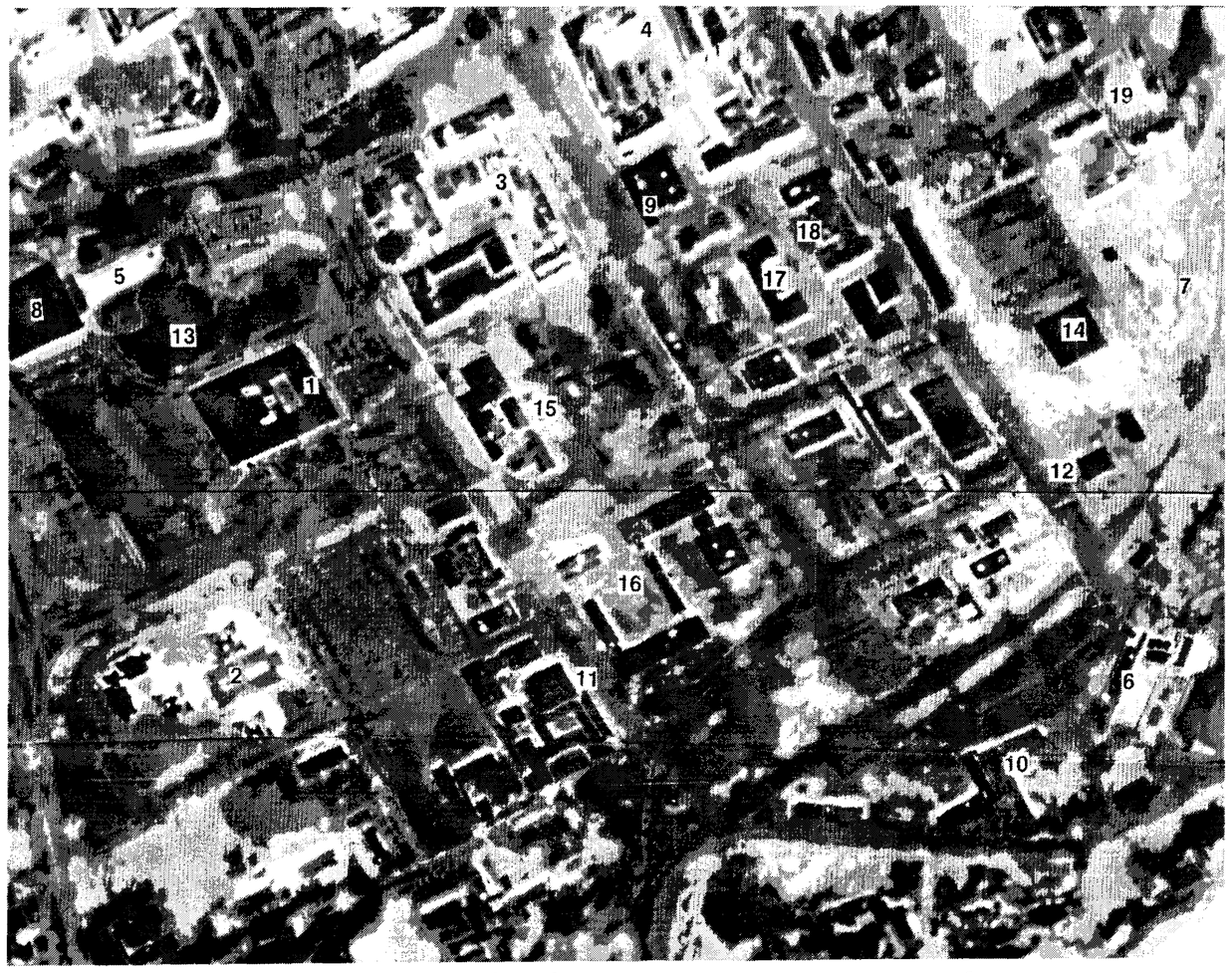
He said that half the listings in the latest CCE catalogue dealt with personal development, skills for self-management, career development, women in management and explorations of the human potential. He said these were "worthy courses, but they do give an odd impression of what we emphasize at the University."

He said a "clear majority" of those teaching the courses were not members of the UBC faculty. "The centre," he added, "may have trouble recruiting UBC faculty, and if they do I think that's a matter to be looked into."

He asked that the centre explain to Senate "just what its principles are for the selection of non-credit courses and what the centre perceives to be the purpose of non-credit courses offered."

Prof. MacDougall said the CCE course catalogue does not reflect nor is it representative of all the University's non-credit offerings, many of which are given in various UBC faculties.






# Thermogram seen as aid in energy conservation program

The "nighttime" picture of the central UBC campus reproduced above isn't a photograph.

It's a "thermogram" taken on a cold, clear night late in 1977 and is designed to help the University's energy conservation program.

Expert analysis of several thermograms that show different temperature ranges at ground level and comparison with a daytime picture of the same area will enable the University to pinpoint areas on the campus where there may be heat-loss problems. More intensive, on-the-ground investigations can then be carried out with a view to taking corrective measures.

To make the thermogram, a federal government jet equipped with a thermal detector (a device that reads the apparent ground temperature at a distance) and other sophisticated equipment flew over the campus along the path of the thin black line in the middle of the picture.

The temperatures recorded by the thermal detector on magnetic tape cover a fairly wide range. As a result, when the temperature signals are processed, it's possible to produce a number of thermograms within specific temperature ranges.

*UBC Reports* chose the one reproduced above because it gives the clearest view of the central campus. The darkest areas indicate temperatures below -12 degrees Celcius (10.4 degrees Fahrenheit), while the whitest areas indicate temperatures that are higher than -8.67 degrees Celcius (16.4 degrees Fahrenheit).

In short, the blackest areas of the thermogram are giving off less heat than adjacent gray or white areas.

If the data on the magnetic tape were processed to indicate a higher range of temperatures, the amount of white area on the thermogram would increase and you wouldn't be able to see the building outlines.

One way in which the thermogram can be misleading results from the fact that the thermal detector scans the ground from left to right at right angles to the plane's flight path. As a result, the detector "sees" more of the sides of buildings at the top and bottom of the thermogram and only the roofs of the buildings directly below.

Thus, the buildings in the top left corner of the thermogram along University Boulevard (the V-shaped building is the Wesbrook Building) appear to be giving off more heat than, say, the Student Union Building (numeral 1) which is almost directly under the plane's flight path.

And, of course, tall buildings that are used intensively at night and have a lot of windows will appear as gray or white areas on the thermogram. A good example of this phenomenon is the Walter Gage Residence (numeral 2).

The white dots that appear on many campus buildings are circles of warm air that are escaping from exhaust fans located in washrooms or other facilities inside the buildings.

An example of the type of campus buildings that would be the subject of a more intensive investigation by energy-conservation experts would be the Chemistry Building complex at the corner of University Boulevard and the Main Mall (numeral 3).

Some heat loss is to be expected from this complex for a number of reasons: it's one of the oldest buildings on the campus; it's heavily used at night; and the various units that make up the complex have to be equipped with numerous exhaust fans to remove noxious gases from the many laboratories in the buildings that make up the complex.

The Henry Angus Building (numeral 4), across the Main Mall from the Chemistry complex, also appears to be experiencing some heat loss, but again it's heavily used at night and the building's south wing (the white patch) is tall and has many windows.

One of the factors that will confuse the thermal detector and produce a distorted thermogram is water. Some of the gray-to-white areas that can be detected atop buildings could be pools of water resulting from inadequate drainage. And some of the gray areas could be a skim of ice that has formed on top of roof water.

For comparative purposes, the aircraft that takes the nighttime thermogram makes a second flight over the same area the next day and takes a daytime picture that will show water on roofs.

Areas where there is supposed to be water will, of course, show up as gray or white. Empire Pool (numeral 5) is a good example, as is the shallow reflecting pool atop the Museum of Anthropology (numeral 6), which is experiencing some heat loss through the roof of its Great Hall. The lake in the Nitobe Garden is perfectly outlined beside the numeral 7. The dark patch in the lake is a small island reached by a footbridge.

The black, gray and white patches in this area and in other areas of the campus where there are no buildings are trees and grass for the most part. Treed areas are usually colder and therefore show darker, while grassy areas are usually wet and show as lighter areas on the thermogram.

A UBC spokesman who's studied the thermogram carefully says the following building roofs show minimal heat loss: War Memorial Gym (numeral 8), SUB (1), Bookstore (9), the new Anthropology and Sociology building (10), the new Law building (11), and International House (12). The Aquatic Centre (13) and the Asian Centre (14) don't count because both were under construction at the time the thermogram was made and were unheated.

Buildings that exhibit a mixture of characteristics are: Main Library (15), the Buchanan Building (16), and the Mathematics and Geography buildings (17 and 18).

Buildings which appear to have a higher heat loss and which will need more detailed investigation include the Chemistry complex (3), Angus Building (4) and the Place Vanier Residence (19).

# Energy campaign boosted

October is International Energy Conservation Month and UBC will step up its own 1979-80 energy conservation program during this period.

A poster by Commerce student Stan Wong that took the $300 first prize in a campus-wide contest last year will appear in UBC buildings, along with a brochure explaining UBC's energy situation and suggesting ways in which members of the University community can contribute to the conservation program.

And the B.C. Energy Commission's energy bus will be located in the covered outdoor alcove on the south side of the Student Union Building during the first week of October.

The bus analyses energy consumption and pinpoints areas of possible savings at schools, hospitals, sawmills, mining operations and other locations throughout the province.

The bus's computer facilities will be on display and pamphlets, slide-tape programs and other information on ways to save energy will be available.

UBC's energy bill this year will be about $3.5 million, or 22 per cent of the $16 million students will pay in fees in 1979-80. UBC's energy bill has increased 32 per cent annually since 1976, and if the same rate of increase continues the annual bill will become $6 million in just two more years.

UBC's Department of Physical Plant has made a number of mechanical and maintenance changes in recent years that are designed to substantially reduce campus energy consumption.

All outdoor lights have been changed to low-energy, high performance lamps. Winter room temperatures have been lowered in certain buildings and air conditioning temperatures have been raised. Lights in some buildings have been removed where lighting levels were higher than necessary.

Other changes have been made involving automated equipment in the campus power house, which provides steam for most UBC buildings, and in other energy equipment.

## Gifts sought

If you've been wondering how you might help the Vietnam boat people who are being brought to Canada, Prof. John Conway of UBC's history department has a suggestion.

Why not make a financial donation or some other form of contribution through the Tibetan Refugee Aid Society, created in 1962 by Dr. George Woodcock, a former UBC faculty member, to aid Tibetans who fled their country into Northern India.

Financial contributions or offers of housing, employment, translation services or language training are equally welcome, Dr. Conway says. Cheques made payable to the "Tibetan Refugee Aid Society (Boat People)" should be sent to the society's registered office at 4345 Locarno Crescent, Vancouver. V6R 1G2. Receipts for income tax purposes will be sent to donors.

## Red Cross back

The Canadian Red Cross returns to UBC Monday (Oct. 1) for the first of four blood donor clinics to be held during the first term on campus.

The first clinic in Rooms 207, 209, 211 and 215 of the Student Union Building continues until Friday (Oct. 6). Hours are 10 a.m. to 4 p.m.

# UBCalendar

## UBC CAMPUS TOUR DEMONSTRATIONS

Events in the week of

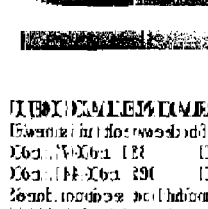
Oct. 17–Oct. 23 — Deadline is 5:00 p.m., Sept. 23

Oct. 24–Oct. 30 — Deadline is 5:00 p.m., Oct. 4

Campus tours are Undergraduate Services, 2881 Memorial Road, (UBC Administration Building), Campus. Further information is available at 2881-2241.

## THE MACMILLAN PLANETARIUM

**SATURDAY, SEPT. 20**



Jean Johnson, "The Planets of the Open Eye," Mars Dark, and "The Dynamic Imagery of Kepler."

**SATURDAY, OCT. 3**

Prof. William K. Unruh, Physics, UBC, on Black Holes — "The Edge of the Universe."

Both lectures at 3:00 p.m. in Science Hall 25, Woodward Instructional Resources Centre. Admission limited; all are welcome. Minimum lecture is available from Information Services, UBC, telephone 2811-2231.

## SATURDAY, SEPT. 20

10:00 a.m. — **FIELD HOCKEY.** Canada West University women's championship. Matches at 10:00 a.m., 12:00 p.m. and 2:00 p.m. against the Universities of Alberta, Calgary and Saskatchewan. Women and Mackenzie fields.

1:00 p.m. — **WORLD FOOD DEMONSTRATION.** second in a series of seven presentations at the Museum of Anthropology. **LECTURE:** "A Place in Process" presented by Community Students Research and Development Education and Jesse Vancouver. Museum, 2280 Northwest Marine Dr. Free with museum admission.

7:00 p.m. — **SOCIETY.** present Bum Boogie in Ebbetts Auditorium, Student Union Building. Admission with AMS card, $1.

## MONDAY, OCT. 1

10:00 a.m. — **LIBRARY DEMONSTRATIONS.** Woodward Prof. Room Curriculum, Biology, Anglais, Division, UBC, on Finding and Using Reference with Modern Information Technology. Buildings Department, Sedgewick Building.

**FILM.** Monday, Oct. 30, in Rooms 200, 1900, 2011 and 2100 of the Student Junior Building. Showings 10 a.m. to 4 p.m.

1:00 p.m. — **COMPUTER SCIENCE LECTURE.** First in a series of two lectures on "Survey of Distributed Programming Languages" by Bruce Hutchinson of the UBC Computing Centre. Room 201, Computer Science Building.

2:00 p.m. — **COMPUTER SCIENCE LECTURE.** First in a series of three lectures on Introduction to MTS Commands and Files by Mike Patterson of the UBC Computing Centre. This course is intended for those who have no previous computing experience. Room 201, Computer Science Building.

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**MATHEMATICS SEMINAR.** Prof. Hsiao Sequoia, Mathematics, UBC, on Quadratic Diophantine Equations. Room 1208, Mathematics Building.

3:00 p.m. — **CHEMISTRY DEPARTMENT SEMINAR.** Dr. H.-J. Emeleus, Professor of Chemistry, University of Cambridge, England, on Dynamic Aspects of Chemical Reactions. Room 1.11, Chemistry Building.

## TUESDAY, OCT. 15

12:00 p.m. — **COMPUTER SEMINAR.** Dr. Dave Kerr, UBC, on Library Concepts in the Automated Information Retrieval Environment. Room 2212, Computer Science Building.

**FILM.** Film Program and Guest Speaker. Film Room.

**COMPUTER SEMINAR.** Dr. Christian Bean, Biochemistry, University of British Columbia, on Computer Applications in Biochemistry. Room 1208, Mathematics Building.

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**SOCIETY.** Philip Gregory, UBC, on Rhythm Found in the Milky Way. Room 200, Chemistry Building.

7:00 p.m. — **SOCIETY.** present Gregory Bedard and Lawrence Mirvish in "The Blue Room Revisited," Auditorium, Student Union Building. Repeated Friday and Saturday at 7:00 and 9:30 p.m.; Sunday at 7:00 p.m.

8:00 p.m. — **SOCIETY.** Berry Brandon, "The Children's Hospital Medical Centre." Room, West, and Perinatal Health — Development of Child Growth. Lecture Hall 25, Woodward Instructional Resources Centre.

## FRIDAY, OCT. 18

12:00 noon — **SEMINAR.** Wolfgang Kanter, Pond Room Curriculum and Bounds, Dr. Pamela Richardson, "The Hospital for Sick Children, Toronto, on Perinatal Health — Development." Lecture Hall B, Vancouver General Hospital.

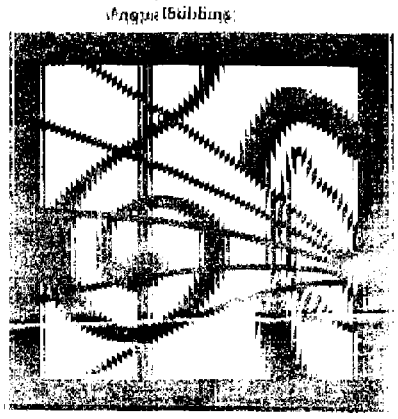
12:00 noon — **SEMINAR.** Dr. John Kanon, King's College London, on Analysis of Multigram Cancer: What is the Future of the Mercury? Room 288, Macdonald Building.

12:30 p.m. — **FILM.** Film Room Second Building Lunch at Hill House.

1:00 p.m. — **SEMINAR.** Dr. Jill Tonge and Jones and Clinical Case Presentation, Conference Room, 4th Floor, Health Centre for Children, Vancouver General Hospital.

3:00 p.m. — **MATHEMATICS COLLOQUIUM.** Prof. Stefan Hibbelsnob, University of Bonn, on "Free Boundary Value Problems for Minimal Surfaces." Room 1100, Mathematics Building Annex.

7:00 p.m. — **AMS MATHEMATICS SEMINAR.** with Winnie Sinclair, Admission, $1, Ballroom, Student Union Building. Tickets from AMS Business Office.



Music on Wednesday, AMS Wednesday and Friday.

## WEDNESDAY, OCT. 31

12:00 noon — **THE CHEMICAL BOOK SHELF** presented by UBC's Centre for Continuing Education. Dr. John Levy, Microbiology, UBC, on Cancer and Immunology. Theatre, Hebron Square Mall Centre, 800 Hornby St., in downtown Vancouver. Further information from 2811-2011, local 222.

**SEMINAR.** Dr. B.M. Wall, Chemistry, University of Edinburgh, Scotland, on Dynamic Stereochemistry of Heterocyclic Phosphates. Room 1.11, Block C, Medical Sciences Building.

12:30 p.m. — **DEPARTMENT SEMINAR.** Prof. Ron W. Zanis, Zoology, University of British Columbia, on Water Balance Physiology. Room 168, Macmillan Building.

**COMPUTER SCIENCE.** Simon Fraser, professor, Department of Biochemistry, Mount Sinai Hospital, Toronto, on Biochemical Genetics. Room 1.11, Block C, Medical Sciences Building.

**LECTURE.** Dr. Wilhelm Viggo von Moldke, 1200 Golden-in-Residence, Centre for Human Development, UBC, on Lecture on the 1970s. Room 106, Lasserre Building.

**AMS MOVIE SERIES** with Viggo Admission, $1, with passes to UBC. Children's Hospital Fund. Auditorium, Student Union Building. Tickets from AMS Business Office.

12:30 p.m. — **MEMORIAL SERVICE.** Auditorium, Student Union Building, UBC, on "My Life as a Museum, or Knowing Up in the Series Ruins. Room 2290, Student Union Building.

1:00 p.m. — **SEMINAR.** Prof. P.M. Bodmer, Commerce and Business Administration, UBC, on Aspects of Corporate Mergers. Room 210, Angus Building.

4:00 p.m. — **DEPARTMENT SEMINAR.** Dr. John Wayne, Energy Modeling Group, Stanford University, on Shell Oil Shale and Energy Modeling. Room, Angus Building.

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## THE MEDICAL ASSISTANT

The School of Medical Technology and Rehabilitation offers a one-year diploma course in the Medical Assistant Program. Graduates are prepared to work in the Medical Centre, Health Centre for Children, Vancouver General Hospital and Vancouver Medical Clinic. Applicants must be high school graduates with a minimum of 1 year of university or college. Applicants must be 19 years of age or more. Applications will be accepted until 28 May. Interviews will be held in June. Applicants will be notified by mail. Tuition is $1,000 per year. Further information from the Medical Assistant Program, Health Centre for Children, Vancouver General Hospital, 4500 Oak St., Vancouver, B.C., V6H 3N1.

## FIRST AIDE MANUAL

The UBC Law Students Legal Advice Program offers free legal advice to people with low income through 20 clinics in the Lower Mainland. For information about the clinics, please telephone 228-4720 or 228-4721. Advice is also available on a referral basis.

## BANQUETS

Any group wishing to hold a banquet, and the students who are interested in getting together to plan a banquet, please contact Bruce Mann, Germania Stables, 228-4400.

## FINAL COURSE EXAMINATIONS FOR THE DEPARTMENT OF ECONOMICS OF THE UNIVERSITY OF BRITISH COLUMBIA

Listed below are the dates and times of final examinations for the department of Economics and Commerce at the University. Unless otherwise noted, all examinations are held in the Faculty of Graduate Studies Examination Room, General Services Administration Building, Wesbrook Mall, the University community service centre. Students are responsible for knowing the location of their examination room, so that they can arrive there at the examination time.

Monday, October 11, 2:00 p.m.: MATHEMATICS 1, Economics and Commerce: Management of Business Resources with Computer Applications.

Thursday, Oct. 14, 1:00 p.m.: ECONOMICS 1, Economics and Commerce: Principles of Economics and Business Organization.

Thursday, Oct. 14, 2:00 p.m.: ECONOMICS 2, Economics and Commerce: Principles of Economics and Business Organization.

Thursday, Oct. 14, 2:00 p.m.: ECONOMICS 3, Economics and Commerce: Principles of Economics and Business Organization.

Friday, Oct. 15, 8:30 p.m.: ECONOMICS 4, Economics and Commerce: Principles of Economics and Business Organization.

## SPECIAL COLLECTIONS COLLECTION

Mining Engineer Edmund Bloom of the Fraser River Gold Rush of 1900 through 1901 will be displayed in the Special Collections division of the Main Library throughout September. Display includes photographs and miner's gold pouch, as well as books, manuscripts, maps and photographs. Main Library.

## WOODWORKING COURSES

The UBC Health Science Centre has slots open for volunteers in the Emergency Care Unit, average age of volunteers 18 years, call 228-4862 and nightime opening in the Psychiatric Unit, call 228-8686.

## FACULTY EXCHANGE WOODWORKING

Museum is looking at ways of displaying museum in the city. Interested, please contact Woodward. Call 228-2828 or 228-8626.

## MUSEUM EXHIBITS

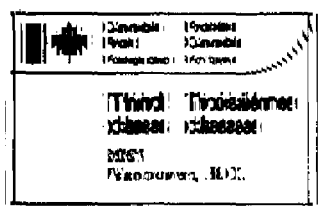
The Museum of Anthropology presents The Gallery Exhibition, 100 Years Woodward Dual Indian Exhibition, Prints, Display continues in the museum rotunda until Sept. 30.

The Four Seasons Food Gathering in British Columbia Prehistory is an exhibition showing the livelihood and living patterns of the people of the coastal British Columbia, and the available technology. Beginning in the museum rotunda until Nov. 4.

Four exhibits exhibits are on display in the museum — Design Elements in Northwest Coast Indian Art; The Evolution of British Columbia Print; Design Variations in Canadian Textiles and Design and Media.

The Theatre Gallery in the museum features two multi-screen slide sound presentations which are presented by visitors.

Museum is open Tuesdays, noon to 9 p.m.; Wednesday through Sunday, noon to 5 p.m.

## DAMIEN MEMORIAL LIBRARY

Damien Memorial Library is holding its book sales on the 1st Floor. Anyone interested in donating new and used materials or library supplies for Damien Hospital and Damien Hospital Clinic, please call 228-4862 and ask for Mrs. Bowling. Bowling will be available in the new Bowling Centre and members are expected to be at least two years old. Further information, call 228-4862.