

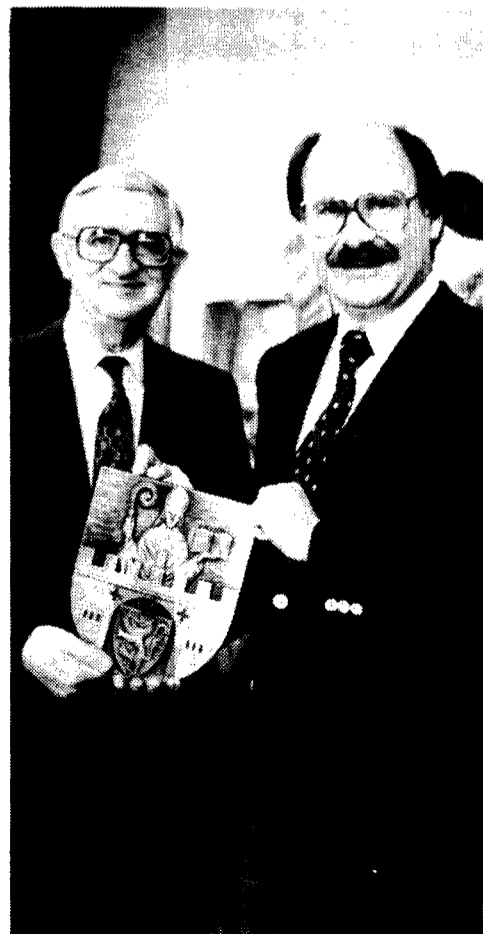
# UBC REPORTS

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*It's been a busy couple of weeks for UBC president Douglas Kenny in the giving and receiving department. Last week he stood ready to ring a Japanese temple bell presented to the Asian Centre and unveiled by Japanese ambassador to Canada Kiyohisa Mikanagi, whose father-in-law, Masahiko Katori, cast it. In his role as a giver, below, the president recently presented to Vancouver mayor Mike Harcourt a plaque in the form of the coat of arms of the German city of Siegen, which recently signed an agreement with UBC providing for an exchange of students and faculty members. Plaque was a gift to the mayor of Vancouver from the mayor of Siegen, who was present at signing ceremony in Germany.*



## Admission changes mean wider choice

UBC has modified admission requirements slightly to give students planning to enter the University from B.C. secondary schools a wider choice of courses in Grades 11 and 12.

Although secondary graduation with a minimum C-plus average is still mandatory, the University now will require six additional courses from a prescribed list of academic subjects, instead of seven.

Dr. Douglas Kenny, president of UBC, said the change still leaves UBC with admission requirements among the most demanding in Canada.

"However, with the provincial Ministry

## Senate sends program back to committee

The chairman of the curriculum committee of UBC's Senate says he is "hoping and planning" that a proposal for a new four-year engineering program in the Faculty of Applied Science will be ready for consideration for a second time at the Feb. 16 meeting of Senate, where the proposal failed to win approval on Jan. 19.

The detailed proposal for the four-year program, which the curriculum committee did not recommend for approval on Jan. 19, was contained in a 120-page document. This was supplemented by a document distributed at the January Senate meeting which contained proposed changes to the program which were designed to meet reservations about it raised by the curriculum committee.

Curriculum committee chairman James Richards, in presenting the committee's report on the four-year engineering program at the January Senate meeting, said concerns about it included the following:

- The faculty had presented no formal statement of rationalization on academic grounds for a change in the length of the program from five to four years;
- The new program reduced, in some instances, the number of units of work that students would be exposed to and there was a lack of a core body of knowledge that all engineering students should have;
- Some committee members doubted the ability of students entering the program from Grade 12 to handle the first-year program of 19 units without a decline of standards; and
- Some felt there was a lack of flexibility in some programs that would prevent students from taking electives outside engineering, that there was a lack of opportunity for student interaction between the various fields of engineering and that there were too many courses in some semesters in some programs.

Dean Martin Wedepohl, the head of the applied science faculty, said it was envisaged that some 60 to 80 Grade 12

of Education introducing Consumer Education as a compulsory course and with Composition 11 also becoming mandatory for certain students, there would be little room for flexibility if UBC maintained its requirement of seven courses in addition to those required for high school graduation by the ministry," President Kenny said.

A provincial graduation certificate also requires Physical Education, Health and Guidance, English 11 and 12, and Social Studies 11.

To enter UBC, a student must also have French 11 or an approved language 11, Algebra 11, and a Science 11, plus three Grade 12 courses from the following: Algebra, Biology, Chemistry, Physics, French, Latin, German, Spanish, English Literature, Geology, Geography, History, Geometry, Probability and Statistics, Western Civilization.

Dr. Kenny said most students take about 14 courses in their final two years of secondary school, so there would be more scope now for electives in the fine arts or other areas of personal interest. He emphasized, however, that students planning to enter specific study programs would have to meet all admission requirements of the program sought, as listed in the UBC Admissions Guide.

He said the modification of admission requirements has been approved by the UBC Senate, to take effect in September of this year.

## Architecture program upgraded

UBC's School of Architecture has taken steps to upgrade its existing program leading to the degree of Bachelor of Architecture.

The revised bachelor's program was given academic approval at the January meeting of UBC's Senate, which was also told that a School of Architecture proposal to institute a new Master of Architecture program, approved by Senate and the Board of Governors in 1981, had been rejected on two occasions when submitted to the Universities Council of B.C. (UCBC).

UCBC refused to approve funding for the proposed M.Arch. program on the grounds that it did not fall within the definition of a new program, Senate was told.

Dr. Douglas Shadbolt, head of the UBC architecture school, told *UBC Reports* that the master's program submitted to UCBC was the result of a complete review of the school's curriculum which he instituted following his appointment to UBC in 1980, as well as concerns raised by a visiting board of the Commonwealth Association of

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# Students earned, saved less last summer

The Summer of '82 was not a good one for UBC students.

Fewer students found work than in the summer of 1981, and those who did find jobs earned less and saved less.

According to a report prepared by the Student Counselling and Resources Centre,

'very few' students were able to finance their educational costs through summer employment.

The lone bright spot in the report was provided by the 92 female undergraduates from the Faculty of Applied Science who found summer jobs. With median earnings

of \$4,250, they were the only group to show an increase (\$217) over the 1981 median.

The engineering women also topped the list on median earnings, their \$4,250 being \$7 better than the median for male undergrads from the Faculty of Forestry, who dropped from a 1981 median of \$5,125 to \$4,243 in 1982.

Median earnings for women foresters were third highest at \$3,666, closely followed by male engineers at \$3,627. At the bottom end were women music undergrads at \$1,602. Male music undergrads had median earnings of \$1,937, as did male undergraduates from physical education. The male phys. ed. students also suffered the biggest drop in earnings, their \$1,937 being almost 50 per cent below their 1981 median of \$3,865.

Here are some further highlights from the report:

- 82.4 per cent of students who registered at UBC for the 1982-83 session reported that they had sought employment in the summer of 1982.
  - Only 91 per cent of them actually found work, down sharply from the 99-per cent success rate of 1981 job-seekers.
  - The median number of weeks worked was 11.3, down 2.3 weeks from the median of the summer of 1981.
  - In the summer of 1982, employed undergraduate men earned a median amount of \$3,145, a decrease of \$530 from the median summer earnings of 1981. Women undergraduates earned a median amount of \$2,291, off \$260 from the 1981 median.
  - Men undergraduates reported median savings of \$1,752, a \$354 drop from the 1981 median of \$2,106. Women undergrads dropped \$219 to a median of \$1,319. Male students saved 64.3 per cent of their summer earnings and women saved 65.6 per cent.
  - 28.6 per cent of the students have part-time jobs this year, 24.5 per cent of the men and 32.9 per cent of the women.
- Dick Shirran, director of the Student

Counselling and Resources Centre and author of the report, said 56 per cent of students registering for 1982-83 completed the questionnaire on summer employment — "about the same as usual."

Mr. Shirran cautioned that the responses are unverified and in many cases are approximations, but said they could be used for making comparisons and noting trends.

One of those trends shows that female students are still earning considerably less than male students during the summer, although the gap is narrowing. In 1977, earnings for women were 62.3 per cent of the male median, but the figure this year was 72.8 per cent.

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students with straight-A standing would be admitted to the program in the first year with the rest of the intake coming from students who had completed first-year Science and from other sources, such as community colleges and other universities.

He said he had every confidence that students with high standing entering the program from Grade 12 would be able to cope with it academically.

Referring to the breadth of the engineering program, Dean Wedepohl said students were required to take half a year out of four in non-engineering, non-science subjects, which made the program "intrinsicly broad."

He added: "I will not have anything to do with a reduction in quality of program. It has been my aim to improve quality when I have the resources to do it."

Dean Wedepohl's remarks were supplemented by those of associate dean of Applied Science Axel Meisen, who said the proposal before Senate represented three to four years of internal consultations in Applied Science, consultation with departments such as mathematics, chemistry and physics, which provide service courses to engineering students, and input from the engineering profession.

He said that new material related to the transferability of students into the program had been included in the proposed revisions which had been circulated to Senate at the start of the Jan. 19 meeting.

This led to a motion by curriculum committee member Prof. Peter Suedfeld, who asked that the proposal for the four-year engineering program be referred back to the curriculum committee for further discussion with the applied science faculty.

He said the document distributed at Senate, which had not been discussed by the curriculum committee, led him to believe that applied science had come a long way to meet the committee's reservations about the program. The motion to refer the proposal was approved by a vote of 41 to 26.

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Architects (CAA), which accredits architecture schools in Commonwealth countries.

The proposed master's program, he said, provided for a more structured curriculum, including an increased number of mandatory courses and units of course work. It also involved the appointment of three new faculty members to encourage an expanded research program.

Following the first rejection of the master's program by UCBC, the school sought and obtained the support of the CAA and the Architectural Institute of B.C. The program was re-submitted to UCBC, which again denied a request for new-program funding.

In its submission to Senate in January, the school said that after careful consideration of current resources it had no recourse but to recommend that the proposal to institute the M.Arch. degree "be shelved indefinitely."

The revised bachelor's program approved by Senate incorporates those elements of the rejected M.Arch. program which are within the present resources of the school, Dr. Shadbolt said.

The revised B.Arch. program involves the deletion of five courses, the introduction of six new courses and revision of 12 others.

Dr. Shadbolt said that the school would continue to review plans for its future development.

## Sportsfest '83 unique event

One hundred disabled and able-bodied youths between the ages of eight and 18 will team up to participate in Sportfest '83, a day-long competition organized by students in UBC's School of Rehabilitation Medicine.

The event takes place on Saturday, Feb. 12 from 8:45 a.m. to 5 p.m. in the Thunderbird Winter Sports Centre.

Sportsfest representative Debbie Seburn said that the day's events would include a wheelchair obstacle course relay, volleyball, floor hockey, a basketball shoot and broomball as well as special events such as the sledge hockey competition, where participants propel themselves along the ice on sleds.

"One of the things that makes Sportsfest unique is the fact that each able-bodied participant is paired up with a disabled youth of the same age," said Ms. Seburn. "Although it has been organized as a day of fun, we're hoping it will be a learning experience for those participating, and that it will increase public awareness about the need for sports programs for disabled youths."

Spectators are welcome at Sportsfest, and there'll be opportunities for the public to try their skill at sledge hockey during the day.

If you'd like more information about Sportsfest, you can contact Debbie Seburn through the Rehabilitation Medicine office, third floor, Acute Care Unit.

## New program approved

UBC's Senate gave academic approval on Jan. 19 to a new program in Atmospheric Science, to be offered jointly by the Faculties of Arts and Science.

The proposed program would be carried out in the Departments of Geography and Oceanography and would offer courses leading to a Bachelor of Science degree in Atmospheric Science and a Diploma in Meteorology.

The report to Senate said that although UBC researchers have gained an international reputation in the field of atmospheric science and several

departments offer courses related to this field of study, UBC lacks the core meteorological courses needed for qualification as a professional meteorologist.

The proposed program is contingent on approval of new-program funding from the Universities Council of B.C.

Also approved by Senate at its January meeting were a Ph.D. program in Social Foundations of Educational Policy and a specialization in Dance within the Bachelor of Physical Education program.

## A reminder: Fill in cards

It's that time of year again when the Registrar's Office reminds graduating students that they must complete "Application for Graduation" cards not later than Feb. 15.

The cards have been mailed to graduating students in the following degree programs: BA, BFA, BMus, BCom, LicAcct, BEd (elementary, secondary and special ed.) BPE, BRE and BSc.

Students in the graduating year of the

degree programs listed above who have not received a card by mail should confirm with the Registrar's Office that their local mailing address is correct. The number to call is 228-4455.

Students in the graduating year of all other degree programs can get application cards from the office of the dean of their faculty. Students enrolled in programs in Graduate Studies can get them from their graduate advisor or departmental secretary.

## Frank, Copping elected to Board

Fourth-year Science student David Frank and third-year Arts student Margaret Copping will take their places as members of UBC's Board of Governors when it holds its first meeting of the 1983 calendar year tomorrow (Thursday, Feb. 3).

Mr. Frank is currently president of the Alma Mater Society and Ms. Copping is a member of the 1982-83 Students' Council representing the arts faculty. Both will serve on the Board for one year.

In other recent elections, the following

were elected at large to serve for one year on the Senate, UBC's academic parliament: Sherri Dickinson, Ted Dixon, Joanne Querie, Ann Rahme and Mark Thompson.

The following were elected to represent specific faculties of the University: Peter Nishihama, Agricultural Sciences; Sean Williams, Applied Science; Bruce Gilmour, Forestry; Peter Kendall, Law; and Brad Waugh, Science.

## Senate group to eye act

A Senate ad hoc committee has been established to prepare recommendations to the Ministry of Universities, Science and Communications concerning revisions to the University Act, the provincial legislation that outlines the make-up and powers of governing bodies at B.C.'s three public universities.

Senate approved a motion by Dr. Jonathan Wisenthal at its December meeting to form a Senate ad hoc committee in response to a public invitation by Dr. Patrick McGeer for suggestions for changes to the act.

The Senate nominating committee submitted the following names for membership on the ad hoc committee at its Jan. 19 meeting: Dr. Thelma Sharp Cook (Education); Lisa Hebert (student senator-at-large, Arts); Dr. Anthony Hickling (Law); Dr. John Silver (Dentistry); Charlotte Warren (Convocation senator); and Dr. Jonathan Wisenthal (Arts).

## CAMPUS PEOPLE

Gary Gardiner, co-ordinator of the B.C. Wrestling Association since 1979, has been named coach of the UBC wrestling team. Mr. Gardiner competed in the World Championships in Russia in 1975 and was an alternate on the Canadian Olympic team in Montreal the following year. He was assistant coach of SFU's wrestling team from 1977 to 1979.

Joseph Weiler, associate professor in the UBC law faculty, is one of five B.C. arbitrators who have been named part-time members of the Public Service Staff Relations Board, which adjudicates disputes involving federal government employees.

Prof. J.A.S. Evans of the Department of Classics has been named general editor of a new series of publications to be issued by the Canadian Association of University Teachers.

The CAUT University Library is intended to be a contribution to solving the problem of how the academic world can communicate its concerns to the public. Several titles are being considered for the new series, including one on particle physics, one on biotechnology and one on business education in Canada.

Dr. George Woodcock, lecturer emeritus and a member of the UBC faculty from 1956 to 1977, is the recipient of the 1982 Directors' Award for Outstanding Achievement of the National Magazine Awards Foundation.

A prolific author and critic, Dr. Woodcock was a founder and, for many years, editor of the UBC journal *Canadian Literature*.

# Getting back to basics



Finlay Morrison

Prof. Finlay Morrison, who retired recently as associate dean of UBC's Faculty of Pharmaceutical Sciences, believes his profession has to get back to basics.

By basics, Prof. Morrison means a revival of the good old days when neighborhood pharmacists knew and understood their clients' health problems and provided counselling and advice on the use of prescribed medication and other products sold in their stores.

Prof. Morrison knows whereof he speaks — he began his career as a dispensing druggist in a small town on the Canadian prairies in the 1930s. "When I started in the profession," he says, "I knew all my patients personally, you counselled them as best you could and they expected that."

After the second World War, however, the profession got caught up in the concept of self-service and there was a tendency to get away from the one-to-one relationship with customers, Prof. Morrison says.

"But the wheel has just about come full circle," he adds. "Even the large chain and franchise stores are making an effort to get their pharmacists out from behind the counter to talk to the patient on a one-to-one basis."

Like other health sciences professions, pharmacy has undergone a revolution in the last 35 years, Prof. Morrison points out. "In the old days, the pharmacist filled out 'shotgun prescriptions,' which were not as specific as those prepared today. The revolution in new drugs, their specificity and the possibility of food-drug interactions . . . all these things have meant that the pharmacist has to be better educated and, as a result, there has been more emphasis placed on training in areas such as pharmacology and clinical therapeutics."

The role of pharmaceutical training in universities, Prof. Morrison adds, is to provide the student with a solid foundation of knowledge, which he or she builds on following graduation through graduate work and continuing education.

A native of Saskatchewan, Prof. Morrison began his career as an apprentice pharmacist in 1936. He was in retail pharmacy until 1940 when he joined the Canadian army, winding up as aide de camp to General H.D.G. Crerar, commander of the Canadian army which took part in the liberation of western Europe in the last stages of the Second World War.

After the war he enrolled at the University of Saskatchewan, where he got his Bachelor of Science in Pharmacy degree in 1947, the same year in which he was invited to come to UBC as lecturer in the fledgling Department of Pharmacy, which was then a part of a combined Faculty of Arts and Science. Pharmacy was granted faculty status in 1949.

The University of Maryland awarded Prof. Morrison the degree of Master of Science in 1952 and his Doctor of Pharmacy degree was awarded by the University of California in 1966.

In 35 years as a member of the UBC faculty, Prof. Morrison says the only thing he hasn't taught in his discipline is pharmaceutical chemistry. Despite increasingly heavy duties since 1973, when he was named associate dean of the Faculty of Pharmaceutical Sciences, he's taught at least one course every year.

In addition to his UBC duties, Prof. Morrison is a well-known figure in the professional pharmaceutical community in B.C. and Canada. He's served as both president (1973-74) and registrar (1956-57) of the College of Pharmacists of B.C. and is a former president of both the Pharmacy Examining Board of Canada (1974-75) and

the Association of Faculties of Pharmacy of Canada (1957-58).

He was also involved with the drafting and presentation of a new B.C. Pharmacists' Act, which came into force in 1974.

He was made an honorary member of both the B.C. college and the B.C. Pharmacists' Society, a body analagous to the B.C. Medical Association, at a November banquet in the Faculty Club, where he was honored by the profession and his UBC colleagues.

In retirement, Prof. Morrison continues to appear at UBC on a part-time basis at the request of pharmaceutical sciences Dean Bernard Riedel in the development of improved relationships with the pharmaceutical industry and with practising B.C. pharmacists.

He's enrolled this winter for a Vancouver School Board course in the repair of small appliances ("I've always been a bit of a tinkerer with machinery") and he'd also like to do some travelling and enrol for some UBC courses in areas such as music, fine arts and philosophy ("The kind of thing you never had time for in the past").

## Fund established

The UBC English department is establishing an endowment scholarship fund to honor Prof. Jan de Bruyn, who retires at the end of the current academic year after a teaching career that began in 1951.

The fund will honor his contributions to English studies, in particular his commitment to students and his generosity in establishing scholarships and prizes for undergraduates.

Contributions to the fund, which are income tax deductible, should be sent to the UBC Alumni Fund, 6251 Cecil Green Park Road, Vancouver, V6T 1W5. Cheques should be made payable to the Jan de Bruyn Scholarship Fund.

# UBC CALENDAR

## Calendar Deadlines

For events in the weeks of Feb. 20 and Feb. 27, material must be submitted not later than 4 p.m. on Thursday, Feb. 10. Send notices to Information Services, 6328 Memorial Rd. (Old Administration Building). For further information, call 228-3131.

## The Vancouver Institute



**Saturday, Feb. 5**  
Faith, Capitalism and Technology. Prof. Ezra Mishan, Economics, University of Victoria.

**Saturday, Feb. 12**  
Small is Profitable. President Peter Meincke, University of Prince Edward Island.

Both lectures take place in Lecture Hall 2, Woodward Instructional Resources Centre at 8:15 p.m.

## SUNDAY, FEB. 6

### Faculty Recital.

Camille Churchfield, flute and Terry Danson, piano. Recital Hall, Music Building. 8 p.m.

## MONDAY, FEB. 7

### Child Psychiatry Lecture.

Behavioral Parent Training for the Treatment of Child Behavior Problems. Dr. Robert McMahon, Psychology, UBC. Room 3D16, Children's Hospital, 4480 Oak St. 9 a.m.

### Urban Planning Lecture.

B.C. Place: An Integrated Development. Paul Manning, vice-president, B.C. Place Corporation. Room 102, Lasserre Building. 11:30 a.m.

### Electrical Engineering Lecture.

Patents and Intellectual Property. Gordon Phillips, Office of the Commissioner of Patents, Consumer and Corporate Affairs Canada. Sponsored by the student branch of I.E.E.E. Room 228, Electrical Engineering Building. 11:30 a.m.

### Cancer Research Seminar.

Retroviral Transformation of Differentiated Cells. Dr. N. Auersperg, Anatomy, UBC. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12 noon.

### Out-to-Lunch Phycologists.

Current Status of Palmariales (Rhodophyta): Systematics and Life Histories. Dr. Mike Hawkes, Botany, UBC. Room 3000, Biological Sciences Building. 12:30 p.m.

## Mechanical Engineering Seminar.

Use of a Furnace and Heat Pump for Residential Heating: A Computer Simulation. Charlie Choi. Room 1204, Civil and Mechanical Engineering Building. 3:30 p.m.

## Management Science Seminar.

Prof. S. Nahmias, University of Santa Clara. Room 212, Angus Building. 3:30 p.m.

## Applied Mathematics Seminar.

The Signalling Problem For a Nonlinear Telegraph Equation. Prof. Eric Varley, Center for the Application of Mathematics, Lehigh University. Room 229, Mathematics Building. 3:45 p.m.

## Biochemistry Seminar.

Regulation of Sulfoglycolipid Biosynthesis During Mammalian Spermatogenesis. Dr. Clifford Lingwood, Hospital for Sick Children, University of Toronto. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

## Astronomy Seminar.

The Globular Star Clusters of the Enigmatic Radio Galaxy NGC 5128 (Centaurus A). Dr. James E. Hesser, Dominion Astrophysical Observatory, Victoria. Room 318, Hennings Building. 4 p.m.

## TUESDAY, FEB. 8

### Botany Lecture.

Nitrogen Assimilating Enzymes in Marine Phytoplankton. Dr. S. Ahmed, Oceanography, University of Washington, Seattle. Room 3219, Biological Sciences Building. 12:30 p.m.

### Forestry Seminar.

Avian Dispersal of White Bark Pine Seed. Dr. R.M. Lanner, Forest Resources, Utah State University. Room 166, MacMillan Building. 12:30 p.m.

### WUSC Film/Discussion.

*Americas in Transition*. An award-winning film by Obie Benz, narrated by Ed Asner, focuses on the history and forces at work today in Latin America. Room A104, Buchanan Building. 12:30 p.m.

### Time Management for Women.

The Women Students' Office begins a two-session workshop on Time Management for Women. Group size limited. Pre-registration necessary at the Women Students' Office, Room 203, Brock Hall. For information, call 228-2415. Room 106A, Brock Hall. 12:30 p.m.

### Bio-Resource Engineering Lecture.

Agricultural Technology in the Indian Social Context. Prof. C.R. Krishnamurti, head, Animal Science, UBC. Room 1212, Civil and Mechanical Engineering Building. 12:30 p.m.

## Cecil and Ida Green Lecture.

The Terrestrial Hearth. Prof. Brian Skinner, Geology and Geophysics, Yale University. Part of a series entitled *The Origin and Future of our Dwindling Mineral Resources*. Lecture Hall 6, Woodward Instructional Resources Centre. 12:30 p.m.

## Electrical Engineering Seminar.

Intellectual Property and Uses of the Patent Databank. Gordon Phillips, Office of the Commissioner of Patents, Consumer and Corporate Affairs Canada. Room 402, Electrical Engineering Building. 1:30 p.m.

## Oceanography Seminar.

Conch Fishery of Belize. Brian Egan, Oceanography, UBC. Room 1465, Biological Sciences Building. 3 p.m.

## Chemistry Lecture.

Photoelectron Spectroscopy of Negative Ions and Properties of the Corresponding Neutral Radicals. Prof. W. Carl Lineberger, Joint Institute for Laboratory Astrophysics, Colorado. Room 250, Chemistry Building. 4 p.m.

## Family Housing Film.

*Dumbo*. Admission is \$1.50. Auditorium, Student Union Building. 6:30 p.m.

## Gerontology Lecture.

Home, Community and Institutional Care. Mary Hill, Social Work, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 7 p.m.

## Development Education Series.

Working in Our Backyard. Sponsored by CUSO. For further information, call 228-4886. Upper Lounge, International House. 7:30 p.m.

## Canadian Medical and Biological Engineering Society Meeting.

Fluid Dynamics of Prosthetic Heart Valves. Prof. V.J. Modi, Mechanical Engineering, UBC. Salons B and C, Faculty Club. 8 p.m.

## WEDNESDAY, FEB. 9

### Ethnic Studies Lecture.

The Landscape of Chinatown as an Ethnic Symbol. Prof. Marwyn Samuels, Geography, UBC. Room A203, Buchanan Building. 12:30 p.m.

### Noon-Hour Concert.

Josep Henriquez, guitar. Recital Hall, Music Building. 12:30 p.m.

### Statistics Workshop.

Statistical Consulting in a Medical Environment — A Year's Experience at the Massachusetts General Hospital. Dr. A. John Petkau, Mathematics, UBC. Room 308, Angus Building. 3:30 p.m.

## Physics Colloquium.

Photodetachment Threshold Behavior. W. Carl Lineberger, Joint Institute for Laboratory Astrophysics, Colorado. Room 201, Hennings Building. 4 p.m.

## Animal Resource Ecology Seminar.

Daily Growth Increments in Otoliths of Fishes: Why are They Produced if Not to Keep Me Out of Trouble? Dr. Steven Campana, Animal Resource Ecology, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

## Pacific Rim Lecture.

Changing Energy Demands in the Western Pacific. Peter Nemetz, Commerce, UBC. Room 604, Asian Centre. 4:30 p.m.

## Archaeological Institute of America (Vancouver Society) Lecture.

More Archeological Travels in Anatolia. Prof. James Russell, Classics, UBC. Auditorium, Vancouver Museum, 1100 Chestnut St. 8 p.m.

## THURSDAY, FEB. 10

### Chemistry Seminar.

Non-Hermitian Hamiltonians in Arrangement Channel Quantum Mechanics. Dr. J.W. Evans, Chemistry, Iowa State University. Room 124, Chemistry Building. 10:30 a.m.

### Urban Land Economics Workshop.

A Comparison of Canadian and U.S. Urban Areas. Prof. Michael Goldberg, Urban Land Economics, UBC. Penthouse, Angus Building. 11:30 a.m.

### Financial Planning Session.

Creative Financial Planning in a Depressed Economy. Derek Mason, Mason, Robinson & Co., and Dennis Hayes, Walwyn, Stodgell & Co. Sponsored by the Faculty Association and the Centre for Continuing Education. Room 201, Hennings Building. 12:30 p.m.

### Fine Arts Lecture.

Chinese Painting: The Artist and the Landscape. Prof. Richard Edwards, Charles L. Freer Professor of Chinese Art, University of Michigan, Ann Arbor. Sponsored by the Leon and Thea Koerner Foundation and the Faculty of Arts' Distinguished Visitors Program. Room 104, Lasserre Building. 12:30 p.m.

### History Lecture.

Quebec: Did the Quiet Revolution Fail? Prof. Ramsay Cook, History, York University. Sponsored by the Committee on Lectures. Room A100, Buchanan Building. 12:30 p.m.

### Institute of Asian Research Films.

*Gurdeep Singh Baines and Children of the Tribe*. Admission is free. Auditorium, Asian Centre. 12:30 p.m.

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