

# Prince Charles to unveil sculpture, visit TRIUMF

Prince Charles will spend about four hours at UBC on Tuesday, April 1, but if you want to catch a glimpse of the heir to the British throne then hope for a sunny day.

He is scheduled to arrive on campus at 12:20 p.m. at the Faculty Club, where he will attend an invitational luncheon being given by Chancellor John Clyne and Mrs. Clyne.

(The main dining room, lounge, cocktail

lounge and snack bar of the Faculty Club will not be available to members during the lunch period April 1, but dining room service will be provided downstairs in Salons A, B and C from noon to 2:00 p.m. The downstairs cafeteria and games room will be open as usual between 11:30 a.m. and 2:00 p.m.)

Prince Charles will leave the Faculty Club about 2:30 p.m. for the Museum of Anthropology, where he will unveil the Bill Reid

sculpture "The Raven and The First Men." If the weather is reasonable the Prince of Wales will walk to the museum by way of the Rose Garden at the north end of the Main Mall. If it is raining, he will travel by car.

Prince Charles, after the unveiling ceremony, will be taken on a tour of the museum. He is scheduled to leave at 3:35 p.m. for TRIUMF. After touring TRIUMF, he is scheduled to leave the campus at 4:30 p.m. for the Bayshore Hotel.

# UBC reports

Volume 26, Number 6  
March 26, 1980.

Published by Information Services, University of B.C., 2075 Westbrook Mall, Vancouver, B.C. V6T 1W5, 228-3151. Jim Banham and Judie Steeves, editors. ISSN 0497-2929.

## Physical Education moves to upgrade two degree programs

A massive reorganization of the curriculum of the two major degree programs offered by the School of Physical Education and Recreation should be in place for students who register for UBC's 1980-81 winter session.

Already approved by Senate, UBC's academic parliament, is a restructured curriculum for the Bachelor of Physical Education degree program, which involves the introduction of six new required core courses in physical education as well as the revision and updating of existing courses.

The new curriculum for the BPE degree represents a significant upgrading of the academic program of the school, according to its director Dr. Robert Morford, who expects that in the long run the new curriculum will reverse the trend toward declining enrolments for the BPE degree.

Six new professional courses, which will allow BPE students the option of concentrating in such areas as sport management and exercise management, are currently being examined by Senate's curriculum committee and are expected to be in place when the new program comes into effect in September.

Also before the Senate curriculum committee is what Prof. Morford describes as a "massive revision" of the school's other major degree program, the Bachelor of Recreation Education.

The BRE program has been revised, he said, with a view to



Photo by Jim Banham

Faculty and student friends raised their glasses Friday (March 21) in the lounge of the Buchanan Building to toast UBC graduate Dr. Kay Brearley, who retires June 30 after a career of more than 30 years as a teacher in the Department of French. For the past 14 years she's been senior advisor in the Faculty of Arts with the responsibility for giving final approval to the academic programs of all Arts students. Other highlights of the day included a bouquet of roses from Asian studies students Salim Jetha and Martha Bassett and a pair of season's tickets for the forthcoming Vancouver Symphony Orchestra season from the Arts Undergraduate Society.

## Board approves three appointments to faculty

UBC's Board of Governors has approved the appointment of a new director for the graduate Institute of Animal Resource Ecology, a new head for the Department of Asian Studies and a new executive director for International House.

Prof. Casimir C. Lindsey, one of Canada's leading fisheries scientists and a UBC faculty member from 1953 to 1966, has returned to the UBC campus from the University of Manitoba to take up his post as director of the Institute of Animal Resource Ecology and professor of zoology.

The new head of UBC's Asian

studies department is Dr. Ashok N. Aklujkar, a UBC faculty member since 1969 and an expert in the fields of Sanskrit grammar, poetics and literature and Indian philosophies.

Calgary-born Rorri McBlane, a former Alberta school teacher and foreign-student advisor in the International Students' Office of the University of Alberta's Department of Student Affairs, has taken up his appointment as executive director of International House on campus.

Prof. Lindsey, 57, took his Master of Arts degree in zoology at UBC, two

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## Aircraft seeds UBC cliff face

Aerial spreading of the Point Grey cliffs with fertilizer and grass seed began Tuesday — the second phase of an \$800,000, five-year program designed to prevent further erosion above Wreck Beach and Tower Beach.

Expenditure for 1980 has been set at \$153,000, including a contingency sum of \$20,000, with \$66,000 the estimated cost of planting and fertilizing. Another major cost the first year will be \$20,000 for fencing along the base of the cliff.

The removal of dangerous trees along the top edge of the cliff was completed earlier at a cost of \$2,000 — \$5,000 under budget.

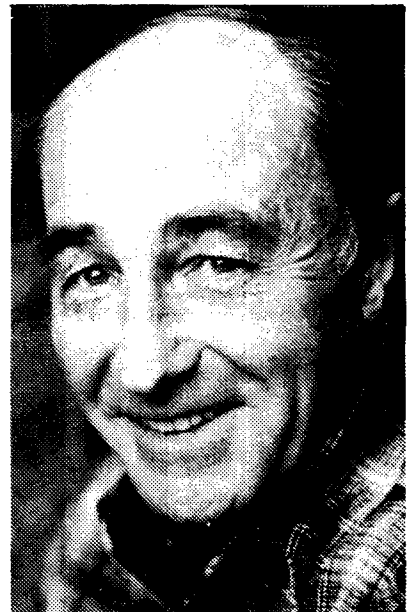
Air Spread Services of Chilliwack is handling the aerial spreading and expects to complete the job today, provided there are no delays because of high wind, rain or poor visibility.

The aircraft is loading at Iona Island in the Fraser River and will drop 36,000 pounds of fertilizer and 3,300 pounds of grass seed in about 40 flights over the three days. The fertilizer is Wesago 4-4-5-4 from Green Valley and cannot harm wildlife. It is edible.

Also going up this week are the first of a series of new signs directing people to beach access trails from the top of the cliff. One new trail is being built, just south of the Museum of Anthropology, making a total of four.

Project manager of the erosion control program is Neville Smith, director of Physical Plant at UBC, who said the fertilizing and seeding would cover the mile of cliff face between the Fraser breakwater and the northernmost searchlight tower.

The erosion control plan was prepared by Stan Weston, a member of the UBC Board of Governors, after a series of public meetings, and has the full support of the Wreck Beach Committee, which represents users of the beach.



Prof. Robert Morford

educating a specialized group of professionals whose job it will be to "initiate, promote and manage the growing need for community recreation or discretionary-time opportunities as opposed to dealing with specific sport or exercise activities."

The proposed BRE program, which should be in place by September, will train administrators and leaders to deal with recreation in a much broader way than in the past, Prof. Morford said.

It will give students the theoretical background they need to make decisions and provide advice in the areas of community recreation planning, environmental land consideration and management and population shifts.

The six new theory courses that will be part of a required, 10-course core program for the Bachelor of Physical Education degree include such titles as the Biodynamics of Physical Activity, Sport in Canadian Society and Physical Growth and Motor Development.

"I've always felt that physical education as a university program has short-changed itself in terms of its knowledge base and occupational outlets for its students by concentrating primarily on delivering services to a client population between the ages of 12 and 18," Prof. Morford said.

"That kind of program is not only  
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# SENATE

UBC's Senate has refused to approve a motion expressing its distaste for publications and the Lady Godiva ride sponsored by the Engineering Undergraduate Society.

The same motion, which was narrowly defeated at Senate's March meeting last week, also sought support for "efforts by the administration of the University and by students in order to bring an immediate end to such activities, in a matter consistent with the principles of the Calendar statement on academic freedom." (See box.)

The Senate debate opened with a statement by Convocation Senator Joan Wallace, who rose to withdraw a motion that asked Senate endorsement of a statement by the UBC Committee of Deans regarding EUS activities.

## Calendar statement

Here is UBC's statement of academic freedom which appears in the University Calendar.

**"The members of the University enjoy certain rights and privileges essential to the fulfilment of its primary functions: instruction and the pursuit of knowledge. Central among these rights is the freedom, within the law, to pursue what seem to them fruitful avenues of inquiry, to teach and to learn unhindered by external or non-academic constraints, to engage in full and unrestricted consideration of any opinion. This freedom extends not only to the regular members of the University but to all who are invited to participate in its forum. Suppression of this freedom, whether by institutions of the state, the officers of the University or the actions of private individuals, would prevent the university carrying out its primary functions. All members of the University must recognize this fundamental principle and must share responsibility for supporting, safeguarding and preserving this central freedom. Behavior which obstructs free and full discussion, not only of ideas which are safe and accepted but of those which may be unpopular or even abhorrent, vitally threatens the integrity of the University's forum. Such behavior cannot be tolerated."**

She said that after placing her motion on the agenda, she had learned there were aspects of the statement by the dean's committee that "not everyone would support," and she was therefore withdrawing her motion in favor of one proposed by Prof. Trevor Heaver, of the Faculty of Commerce and Business Administration.

Prof. Heaver said his motion had some unavoidable ambiguities in terms of conflict with the University's academic freedom statement. The intent of the motion, he said, was to express support for both the administration's intent and the intent of some, if not the majority, of students to change future behavior on the part of the engineers.

He said it was difficult to make judgments about the EUS newsletter and the "Red Rag" in terms of what is legal and proper, but he said he had no difficulty in identifying the Lady Godiva ride as an illegal act which could not be condoned by the University.

In the ensuing debate, a number of faculty and student senators said they supported the spirit of the motion but were unable to vote for it because it singled out the engineers for censure.

Dr. S.O. Russell, of the civil

engineering department, said the implication that nothing had changed in the past ten years in the applied science faculty in regard to attitudes toward women was false.

The atmosphere in the faculty has changed noticeably, he said. The engineers have issued a statement to the effect that they intend to reform themselves, and the latest issue of their newsletter was "perfectly acceptable."

The motion before Senate, he added, "might be viewed by the engineers as the rest of the University dumping on them all at once. Too much pressure can be counter-productive."

Prof. Hugh Greenwood, head of the geological sciences department, said it was his impression that an increasing number of women are taking an interest in engineering programs, where they function fully as well as men.

He said the motion might be construed as an attempt to legislate morality and for that reason he could not support it.

Ms. Wallace said the motion had nothing to do with morality but the fact that engineering publications depict women as sex objects to be used by men for their own enjoyment. "The fact that women are competent is completely ignored in EUS publications," she added.

Prof. Paul Gilmore, head of the Department of Computer Science, said he too could not support the motion because it was "heavy handed." He said the faculty as individuals and as a whole must continue to confront the EUS when its behavior is objectionable.

He added that other engineering activities, such as the display the EUS put on in the Student Union Building in the same week as the Godiva ride, should be encouraged.

President Douglas Kenny, replying to a questioner who asked what administration actions Senate was being asked to support, pointed to the statement issued by the incoming and outgoing EUS which followed consultations with the administration.

Within the spirit of a university, he said, one had to rely on intellectual persuasion "and only as a last resort do you resort to other means, which I would not rule out."

Law professor Donald MacDougall, who was the final speaker in the debate, said he felt the discussion had lost sight of two important points, one of which was the issue of censorship.

The motion (by Prof. Heaver), he said, recognizes that within a University community one had to be tolerant of a lot of offensive behavior and opinions.

Another legitimate concern that had been lost sight of, he said, was that Senate should be concerned with any activities that discourage the full participation of women in University academic activities.

"The virtue of Prof. Heaver's motion," Prof. MacDougall said, was "that it did a pretty fair job of balancing those two interests."

The final report of a University-wide committee struck by President Kenny to prepare recommendations on space for the UBC library system should be completed in a month or two, Senate was told at its March meeting.

Dean of graduate studies Peter Larkin, who is chairing the committee, said he hoped the report would make some useful contributions to policies covering library space over the next two decades and "point out some major directions that library building will have to take."

Prof. Larkin referred to the library space study in commenting, as chairman of the Senate Library Commit-

tee, on the report of University Librarian Basil Stuart-Stubbs, whose annual report on UBC library operations reviewed "the good news and the bad news" of the past decade.

In terms of good news, Mr. Stuart-Stubbs said, the library's collection of both books and microforms had doubled in the 1970s. It had taken the library more than 50 years to acquire its first million volumes, he said, and half of those were obtained in the 1960s. It had taken only ten years to acquire the second million, he added.

Other good news:

- The collection was more accessible through improved loan policies;
- New retrieval systems based on machine-readable information had been started during the decade;

- The library had begun to convert its catalogue to microfiche as part of a plan that would link it to other libraries in Canada and in other parts of the world; and

- New library buildings, notably the Law and Sedgewick Libraries and a major expansion of the Woodward Library, had been completed in the 1970s.

The bad news of the decade, he continued, was the problem of inflation and devaluation of the Canadian dollar. He said the support of Senate, the UBC administration and the Universities Council had been "exceptional in attempts to save the collections development program from complete disaster."

Another effect of inflation and

devaluation has been to increase the percentage of the budget that must be allocated to salaries, Mr. Stuart-Stubbs said, which meant there was less money to spend on other things.

Inflation, he said, has had no effect on people's ability to write and think, "one one of the anomalies the University will have to face is that knowledge doesn't stop growing in respect to libraries, new programs and the adoption of new courses."

Mr. Stuart-Stubbs said that in the 1980s he envisaged a larger, more complex library system in terms of its collections, which would expand in the area of microforms and videodiscs.

He said there was no sign that manufacturers were moving in the direction of standardizing equipment which could lead to undergraduate courses in how to deal with machine-readable information.

Senate has approved a proposal which will move the division of medical microbiology, formerly a unit within the Department of Microbiology in the Faculty of Science, into the Faculty of Medicine, where it will be established as a division within the Department of Pathology.

Senate was told that there will continue to be co-operation between Science and Medicine in research activities and teaching and that the move brings the division's status in line with practice in effect at most Canadian universities and medical schools.



Sharing the Bobby Gaul Memorial Trophy for 1979-80 as UBC's top male athletes are Tim Hirose, Education 5, left, and Kevin Konar, Arts 4. Award is made annually to student athlete who combines athletic achievement, sportsmanship and academic excellence. Hirose has won just about every Canadian university championship going as a UBC wrestler and represented Canada in the 1977 Pan-American Games and the 1979 world championships. Konar captained UBC's Thunderbird football team, and was named to the Canada all-star team from 1976 through 1979 and all-Canadian teams in 1978-79. He played for Canada in the 1979 Can-Am Bowl and was drafted by the B.C. Lions as their first-round pick in February. Winners of awards for women's athletics will be named tonight (Wednesday) at Faculty Club banquet.

## UBC museum gets travel grant

A \$7,000 grant has been awarded to UBC's Museum of Anthropology to allow the museum to take its special exhibition of the graphic works of Haida artist Robert Davidson on the road.

The grant is from the National Museums of Canada, and will allow the exhibition to first visit the Queen Charlotte Islands, home of the Haida,

then the B.C. Provincial Museum in Victoria.

It will then be offered to museums and galleries across Canada.

Robert Davidson, born in Masset in 1946, and a descendant of the great Haida craftsman Charles Edenshaw, has won wide critical acclaim for his carvings and original silkscreen designs.

Photo by Jim Banham

# Education national blindspot

Education in Canada is a "national blindspot," UBC President Douglas Kenny told a Washington, D.C., audience last weekend.

Dr. Kenny, in a speech delivered Saturday to the fourth annual meeting of the All-Canada University Association, an organization of graduates of Canadian universities now living in the United States, said funding for universities below the inflation rate means problems for Canada as a whole, not just for the universities.

"It means that with knowledge doubling every 10 years, and with other countries spending far more on research and development, Canada is going to fall further behind in the knowledge game," Dr. Kenny said. "It means that new ideas, which are the forerunners of new industries, new jobs and a healthier economy, are being put on the back burner."

### CANADA HELD BACK

He said Canadian society is being held back by shortages of highly qualified and talented professionals such as scientists, accountants, engineers, foresters and computer specialists. Take the necessary steps to rectify this, he said, "and many of our economic problems would disappear."

The UBC president said Canada imports twice as many engineers as are graduating from Canadian universities, because the schools lack money and space.

Using his own university as an example, he said UBC received almost 5,000 new applications for graduate work last fall, of which 3,000 were judged admissible. "But we had space and budget to admit only half of them."

Dr. Kenny said there are 200 faculty vacancies in schools of commerce across Canada, including 13 at UBC, "yet in all of Canada this year we will graduate only 12 Ph.D.'s in Commerce."

### NOT GOOD ENOUGH

Dr. Kenny said that more than 10 per cent of Americans are university graduates, whereas the figure for Canada is less than 5 per cent. "Canadians should make up their minds that this is not good enough," he said.

"As a nation, we should stop thinking of a university education solely in individual terms, and start thinking about what a higher level of education could do in terms of national priorities. Above all, we must enter the technological race with other nations by increasing the amount of research and development in Canada."

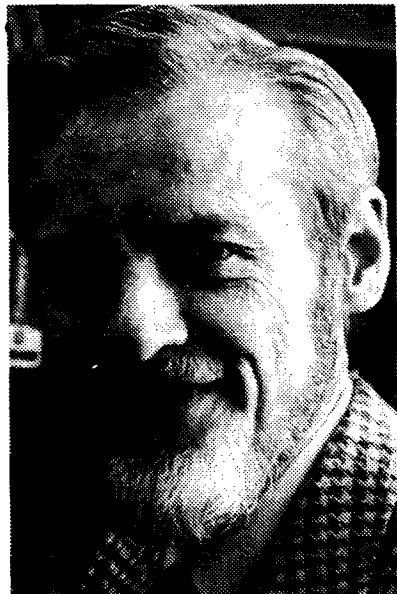
The president said Canada's gross expenditure on research and development — "the fuel for new ideas" — had declined remarkably between 1967 and 1978, and this had led to a growing deficit in Canada's trade in high technology products.

He said the short-lived Conservative government had made "some welcome moves" in increased research funding, "and we are hopeful that the new Liberal government will follow their good example."

### REMAINS OPTIMISTIC

Dr. Kenny said he remained optimistic about the future of universities in Canada because progress for Canada would demand a greater role for higher education.

"The universities, particularly because of their research capabilities, can and must play an important part in achieving our national and provincial goals."



Prof. Casimir Lindsey

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years after graduating from the University of Toronto in 1948 with first class honors in biology. He was awarded the degree of Doctor of Philosophy by Cambridge University in 1952, the same year he joined the B.C. Game Department as a division biologist.

From 1953 to 1966, he was an honorary lecturer, curator and assistant and associate professor in the former Institute of Fisheries, which was incorporated into UBC's Institute of Animal Resource Ecology in 1969. The Institute is an interdisciplinary

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restrictive, it also doesn't make sense in contemporary society because the recreation and physical-activity needs of the public literally span the period from birth to death."

PE theory courses haven't been entirely absent from the school's curriculum in the past, Prof. Morford added, "but the information was not being packaged to produce an up-to-date, theoretically grounded physical ed. major."

Emerging all across North America, he continued, are the kinds of concentrations — sports sociology and economics and human motor control are examples — which have been built into the new UBC program.

"And from now on," he said, "students will be introduced to physical education theory in the first year, whereas in the past such courses weren't taken until perhaps the second or third years."

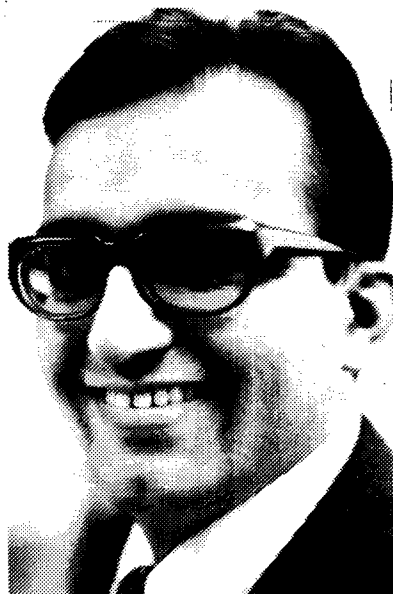
Prof. Morford attributes declining enrolments in the BPE degree program to the "general job scare" and the fact that most prospective students see teaching as the only job outlet after graduation.

He said he's hopeful that there will be a gradual increase in enrolment for the BPE degree program as the school expands its contacts with high schools and community colleges and describes job opportunities for graduates in fields other than teaching.

"It's been my experience," he said, "that when much tougher academic programs were introduced at the schools where I taught in the United States, we lost some students initially, but within three or four years we began to get a better grade of student because the new program was offering intellectual challenge."

Dr. Morford said he also anticipated that the new program would attract new faculty members and enable those now on the faculty of the school to upgrade their qualifications.

"We've also created opportunities for much greater specialization in the faculty by allowing our teachers to concentrate on what they do best and



Dr. Ashok Aklujkar

unit in the Faculty of Graduate Studies concerned with research and teaching in resource ecology. Its teaching and research staff is drawn from a wide range of UBC faculties and departments, including zoology, agricultural sciences, forestry, community and regional planning, commerce and business administration, economics and geography.

Dr. Aklujkar, 39, was born in India, where he was awarded the degrees of Bachelor and Master of Arts by the University of Poona. He was awarded the degree of Doctor of Philosophy by Harvard University in 1970.

He lectured at the University of Illinois and at Michigan State University

before joining the UBC faculty in 1969.

Mr. McBlane, 33, is a graduate of the University of Alberta, where he was awarded the degree of Bachelor of Education and a graduate diploma in inter-cultural education and teaching English as a second language.

He is currently a Master of Education degree candidate at Alberta in the field of international education.

He has travelled widely in Europe, Africa, New Zealand, Australia and the South Pacific. From 1969 to 1975 he taught school in Ghana, West Africa, and at two locations in Papua, New Guinea.

letting them get on with it," Dr. Morford said.

The revised BPE program does not affect the number of units — 69 — needed to obtain a degree. Within the total, however, non-PE theory courses have been reduced from 36-42 units to 30-33 units, PE theory courses have been increased from 12-18 units to 21-24 units, while PE activity courses remain the same under the new program at 15 units.

Physical education isn't the only academic unit at UBC making changes in its curriculum. Students entering the Faculty of Law in September will be confronted with a revised program which the chairman of that faculty's curriculum committee says reflects changes in the practice of law in Canada.

Prof. John Hogarth said the revised first-year curriculum in law will be followed this fall by proposed changes in the second and third years of the law degree program which will go to UBC's Senate for approval in the fall.

Prof. Hogarth said the new first



Rorri McBlane

year program expands the study of criminal and constitutional law and will integrate legal writing into existing first-year courses.

He said the revised curriculum reflects the increasing importance of legislation and government policy-making, the growth of administration and special tribunals to deal with the problems of a complex industrial society, the growing importance of constitutional law in Canadian federalism, and the increasing importance of the relationship between the individual and the state in such areas as civil liberties.

"We're also the victims to a certain extent of a problem created by our own success," Prof. Hogarth added.

"Professors have created a series of case books and other materials that are used by students and as a result it's felt they've begun to lose the skills of research. By offering an expanded program of library research and integrating legal writing into existing courses, we're aiming at re-emphasizing these skills as part of legal education at UBC."

## First aid course overbooked

The first of a series of monthly first-aid training courses for UBC departmental safety reps and employees associated with accident areas is already overbooked.

The course, which meets for the first time today from 12:30 to 4:30 p.m. in the conference room of the UBC Aquatic Centre, will be repeated in April and May on dates to be announced later.

Cal Barber, of Employee Relations and secretary of UBC's safety, security and fire prevention committee, said the non-certifiable course is designed to stimulate safety awareness and provide employees with basic tools for dealing with life-threatening situations.

Aquatic Centre director Jim Bremner will act as course instructor and cover such areas as the principles

and techniques of emergency care, respiratory care and resuscitation and control of hemorrhage and shock.

The cost of the course is \$2 to cover materials.

## Building awards made

Three UBC buildings have been recognized in the "Festival of Architecture" awards program of the Royal Architectural Institute of Canada.

Honor awards in the competition have gone to the Sedgewick Library and the Museum of Anthropology, while the new UBC Aquatic Centre received an award of merit.

Architects for the three buildings were Rhone and Iredale for the Sedgewick Library, Arthur Erickson and Associates for the anthropology museum, and Carlberg Jackson and Partners for the Aquatic Centre.

# UBC Calendar

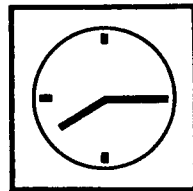
## UBC CALENDAR DEADLINES

Events in the week of:

April 6 to April 12 Deadline is 5 p.m. March 27  
 April 13 to April 19 Deadline is 5 p.m. April 2 (note: This is a day earlier because of Easter holidays.)

Send notices to Information Services, 6328 Memorial Road (Old Administration Building), Campus. For further information call 228-3131.

## THE VANCOUVER INSTITUTE



### SATURDAY, MARCH 29

Sir Andrew Huxley, Royal Society Research Professor and Nobel Laureate, University College, London, on **Muscle Physiology: Old and New Discoveries**. The lecture is at 8:15 p.m., Lecture Hall 2, Woodward Instructional Resources Centre.

## SUNDAY, MARCH 30

1:30 p.m. **USES OF THE CEDAR TREE**. Northwest Coast Indian students present a program on the many traditional uses of the cedar tree. This program is repeated at 2:30 p.m. Museum, 6393 Northwest Marine Dr.

## MONDAY, MARCH 31

12 noon **ACADEMIC WOMEN'S ASSOCIATION Gala Easter Buffet Luncheon**. Salons A, B, C, Faculty Club. Non-members welcome. Reservations at 228-4643 or at door. \$5.

**CANCER RESEARCH SEMINAR**. Dr. G. Krystal, Medical Biophysics Unit, B.C. Cancer Research Centre, on **Factors That Regulate Hemopoiesis**. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave.

12:30 p.m. **MUSIC EDUCATION Spring Concert Series presents Stage Band Concert**. Room 100, Scarfe Building.

**COMPARATIVE LITERATURE LECTURE**. Dr. Lars Warne, Scandinavian Studies, University of Washington, on **Decadence, Dandies, and Esthetes in the Mirror of Parody**. Room 3230, Buchanan Building.

**RELIGIOUS SOCIETY OF FRIENDS (Quakers) Meeting for Worship** (UBC campus worship group). Room 1024, Scarfe Building. For more information, contact R. Crosby, 5735.

**GENERAL UNIVERSITY LECTURE**. Dr. Wallace Clement, Sociology, McMaster University, on **Class Transformations in Mining**. Rooms 207-209, Anthropology and Sociology Building.

**CLASSICS LECTURE**. Dr. Charles B. Schmitt, Warburg Institute, University of London, on **The Universities of Renaissance Italy**. Room 204, Buchanan Building.

3:30 p.m. **MANAGEMENT SCIENCE SEMINAR**. S. Chew and Prof. K.R. MacCrimmon, Commerce, UBC, on **Decision Analysis and alpha-Utility Theory**. Room 312, Angus Building.

**CLASSICS SEMINAR**. Dr. Charles B. Schmitt, Warburg Institute, University of London, on **Renaissance Aristotelianism**. Room 154, Buchanan Building.

**APPLIED MATHEMATICS SEMINAR**. Prof. R.H. Enns, Physics and Theoretical Science Institute, SFU, on **The 3-Wave Interaction in Nonlinear Optics**. Room 203, Mathematics Building.

3:45 p.m. **MECHANICAL ENGINEERING SEMINAR**. Dr. J. Kalousek, National Research Council, on **Rail Wear and Role (Roll) of a Wheelset**. Room 1215, Civil and Mechanical Engineering Building.

4:00 p.m. **ASTRONOMY SEMINAR**. Dr. A. Batten, Dominion Astrophysical Observatory, Victoria, B.C., on **The Struves of Pulkova: A Family of Astronomers**. Room 318, Hennings Building.

**BIOCHEMISTRY SEMINAR**. Lorne Reid, Biochemistry, UBC, on **The Cytochrome b<sub>5</sub> Redox Cycle**. Lecture Hall 3, Woodward Instructional Resources Centre.

4:30 p.m. **BIOMEMBRANE GROUP SEMINAR**. Dr. W.Y. Cheung, Biochemistry, St. Jude Children's Research Hospital, on **The Role of Calmodulin in Membrane Function**. Lecture Hall 4, Woodward Instructional Resources Centre.

8:00 p.m. **IMMUNOLOGY SEMINAR**. Dr. Steve Gillis, Immunology, Fred Hutchinson Cancer Center, Seattle, Wash., on **T Cell Growth Factor: Regulation of Immune Response**. Salons B and C, Faculty Club.

## TUESDAY, APRIL 1

12:30 p.m. **MUSIC EDUCATION Spring Concert Series presents A Concert of Electronic Music**. Room 100, Scarfe Building.

**FINE ARTS LECTURE**. Dr. David Solkin, Fine Arts, UBC, on **Richard Wilson and the Vision of a Perfect World**. Room 102, Lasserre Building.

3:30 p.m. **OCEANOGRAPHY SEMINAR**. John Parslow, Oceanography, UBC, on **Modelling and Data Analysis for Marine Planktonic Ecosystems With Particular Reference to Ocean Station PAPA (50°N, 145°W)**. Room 1465, west wing, Biological Sciences Building.

**PSYCHOLOGY COLLOQUIUM**. Dr. Donald E. Broadbent, University of Oxford, on **The Maltese Cross: A New Simplistic Model for Memory**. Room 209, Scarfe Building.

4:30 p.m. **CHEMISTRY SEMINAR**. Dr. Ted Brown, School of Chemical Sciences, University of Illinois, on **Nuclear Quadrupole Double Resonance Spectroscopy — A New Probe of Structure and Bonding**. Room 250, Chemistry Building.

## WEDNESDAY, APRIL 2

8:00 a.m. **DENTISTRY SPECIAL LECTURE**. Dr. Barry J. Sessle, Visiting Medical Research Council Professor, Faculty of Dentistry, University of Toronto, on **New Insights Into Dental Facial Pain**. Lecture Hall 4, Woodward Instructional Resources Centre.



Photo by Judie Seave

Some writers point to libraries of their books, Mary Ann Nowakowsky displays egg cartons full of her writings. UBC's Museum of Anthropology has a display of her writings — 50 of them — in the form of Ukrainian Easter Eggs or Pysanka. The largest egg above is a goose egg which tells in pictures and symbols of Ms. Nowakowsky's own design the happenings and consequences of the Last Supper. Using a batik process, this egg took 36 hours over six days to "write". The middle-sized duck egg (far left) is "a restoration of the past" told in the use of three different styles of crosses, and the small hen's egg tells about church architecture. All the eggs were made with a friend in mind to whom the eggs will be given — usually as Easter wishes and gifts. The display continues until May 11.

## WEDNESDAY, APRIL 2 Continued

12 noon **PHARMACOLOGY SEMINAR**. Dr. K.P. Minneman, Pharmacology, University of Colorado Medical Center, Denver, on **Interactions of Agonists and Antagonists with the beta-Adrenergic Receptor**. Room 114, Block C, Medical Sciences Building.

12:30 p.m. **MUSIC EDUCATION Spring Concert Series presents Jazz Choir**. Room 100, Scarfe Building.

2:30 p.m. **GENETICS DISCUSSION GROUP**. Dr. Dave Baillie, Biological Science, SFU, on **Worming Through Genetics**. Room 200, Westbrook Building.

**GEOLOGICAL SCIENCES LECTURE**. Dr. V.J. Wall, Earth Sciences, Monash University, Melbourne, Australia, on **The Structural, Metamorphic and Geochemical Environment of Broken Hill (N.S. Wales, Australia) Mineralization**. Room 330A, Geological Sciences Centre.

3:30 p.m. **MANAGEMENT SCIENCE SEMINAR**. A. Ferrie, Operation Research Department, MacMillan Bloedel Ltd., Vancouver, on **A Timberlands Planning Model**. Room 425, Angus Building.

**STATISTICS WORKSHOP**. Prof. D.V. Lindley, Mathematics, SFU, on **Bayesian Philosophy**. Room 310, Angus Building.

## THURSDAY, APRIL 3

12 noon **DENTISTRY SEMINAR**. Dr. Barry J. Sessle, Visiting Medical Research Council Professor, Faculty of Dentistry, University of Toronto, on **Orofacial Pain Mechanisms**. Room 388, Macdonald Building.

1:00 p.m. **FACULTY ASSOCIATION ANNUAL MEETING**. Room 100, Mathematics Building.

2:30 p.m. **PHYSICS CONDENSED-MATTER SEMINAR**. D.A. Dunmur, University of Sheffield, on **Physical Studies of Anisotropic Systems**. Room 318, Hennings Building.

3:30 p.m. **RESOURCE ECOLOGY COLLOQUIUM**. Dr. Donald McCaughan, director, International Pacific Halibut Commission, on **Management of the Pacific Halibut Fishery**. Room 14-a, Hut B-6.

**APPLIED MATHEMATICS SEMINAR**. Dr. L.M. Wedepohl, Dean of Applied Science and Department of Electrical Engineering, UBC, on **High Frequency Wave Propagation in Electric Power Lines With Special Reference to a Nonlinear Eigenvalue Problem**. Room 203, Mathematics Building.

## FRIDAY, APRIL 4 Good Friday. University closed.

See box for Easter Weekend hours in Food Services and Library.

## SATURDAY, APRIL 5

10:00 a.m. **FINE ARTS Graduate Student Association Symposium**. Topics range from Pre-Colombian America to The Twentieth-Century Soviet Union. Room 102, Lasserre Building. Admission \$4, includes lunch and party at 8 p.m.

## FOOD SERVICE HOURS

### EASTER 1980

Friday, April 4 — all units closed  
 Saturday, April 5 — SUB open, 9:30 a.m. to 4:30 p.m.  
 Sunday, April 6 — SUB open, 11:00 a.m. to 6:00 p.m.  
 Monday, April 7 — SUB closed; Bus Stop open 10:00 a.m. to 4:00 p.m.

## EASTER WEEKEND LIBRARY HOURS

Campus libraries will be open normal weekend hours on Saturday, April 5, and Sunday, April 6.

**MAIN LIBRARY** — Open 9 a.m. to 5 p.m. Good Friday (April 4) and Easter Monday (April 7). Asian Studies and Fine Arts Divisions closed Good Friday only. Map Division closed both days.

**ANIMAL RESOURCE ECOLOGY, CRANE, DATA and MARJORIE SMITH LIBRARIES** closed Good Friday and Easter Monday.

**CURRICULUM LABORATORY and WOODWARD LIBRARY** open 9 a.m. to 5 p.m. Good Friday and Easter Monday. **MacMILLAN, MATHEMATICS, and MEDICAL BRANCH LIBRARIES** closed Good Friday.

**MacMILLAN LIBRARY** open 9 a.m. to 5 p.m. Easter Monday. Easter Monday hours for the **MATHEMATICS LIBRARY** are 12 noon to 5 p.m. and 12 noon to 10 p.m. for the **MEDICAL BRANCH LIBRARY**.

**MUSIC LIBRARY** open 8 a.m. to 5 p.m. Good Friday and 8 a.m. to 10 p.m. Easter Monday.

**SEDEGWICK LIBRARY** hours are 10 a.m. to 6 p.m. Good Friday and 12 noon to 11 p.m. Easter Monday.

**WILSON RECORDINGS COLLECTION** open 12 noon to 5 p.m. Good Friday and 12 noon to 8 p.m. Easter Monday.

**LAW LIBRARY** open 9 a.m. to 5 p.m. Good Friday and 12 noon to 11 p.m. Easter Monday.

**BROCK HALL STUDY AREAS** open usual hours throughout weekend.

## LIBRARY MATERIALS

UBC libraries wish to remind all borrowers that library materials due April 11 or before should be returned or renewed by that date. Replacement costs will be charged for those items not returned or renewed in response to the spring call-in. Borrowers leaving campus immediately following exams are asked particularly to respond promptly, as books on loan to them may be required by spring-session students.

## EXHIBITION

The AMS Art Gallery, located in SUB, is presenting an exhibition of works by Art Education graphics students entitled **The 12th Annual Print Show and Sale** from Monday, March 31 to Friday, April 4; Monday through Friday; 9 a.m. to 8 p.m.

## ANNUAL UBC FACULTY AND STAFF GOLF TOURNAMENT

All UBC faculty and staff, male and female, are welcome to take part in the tournament on Thursday, May 1, 1980 at the University Golf Course; tee-off times 9:30 a.m. to 12:30 p.m. Information regarding green fees and dinner at the Faculty Club will be circulated. For advance tee-off reservations, call Dr. H.D. Whittle, local 5407 or 3838.

## NITOBE GARDEN HOURS

March 1 to Easter: Open weekdays, 7:30 a.m. — 3:00 p.m.  
 Open weekends 10:00 a.m. — 5:00 p.m.  
 Good Friday to Thanksgiving: Open every day from 10:00 a.m. — half-an-hour before sunset.

## CAMPUS LOST AND FOUND

The Campus Lost and Found is in Room 112a, Brock Hall, and during the Winter Session is open the following hours: Monday, Wednesday, Thursday and Friday, 11:30 a.m. to 2:30 p.m.; Tuesday, 12:30 to 2:30 p.m. and 3:30 to 4:30 p.m. Any 'found' items can be forwarded during these hours. 228-5751.

## ENERGY LECTURE CANCELLED

The lecture by Dr. Jack Hollander in the Energy Lecture Series on Friday, March 28, at 2 p.m., has been cancelled.

## FINAL ORAL EXAMINATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Listed below are scheduled final examinations for the degree of Doctor of Philosophy at the University. Unless otherwise noted, all examinations are held in the Faculty of Graduate Studies Examination Room, General Services Administration Building. Members of the University community are encouraged to attend the examinations, provided they do not arrive after the examination has commenced.

**WEDNESDAY, APRIL 2, 3:00 p.m.:** W. ROSS MCKINNON, Physics: Physical Mechanisms of Interconversion Batteries.

**WEDNESDAY, APRIL 2, 3:00 p.m.:** JANIS MARIE BLAKEY, Education: An Investigation of the Relationship Between Children's Key Vocabulary Responses and Certain Piagetian Concepts. (Conference Room)

**THURSDAY, APRIL 3, 2:30 p.m.:** DAVID HOWARD TURPIN, Botany: Processes in Nutrient Based Phytoplankton Ecology.

