

Volume 31 Number 19

October 23, 1985



Four old army huts in Acadia Camp, slated for removal to make way for a new \$9.7 million family housing project, were torched last week to provide University Endowment Lands firefighters with practice in dealing with house fires. At its October meeting, UBC's Board of Governors authorized the University to seek provincial-government approval to borrow funds to build the 158-unit housing development. Loan will be repaid out of housing revenues.

# **UBC receives support from IBM for computer project**

UBC and IBM Canada Ltd. have signed a three-year, \$2 million cooperative agreement to explore ways computers can be used to help improve productivity in Canada's legal system. The grant is the first cooperative agreement made by IBM with a Canadian university.

"Computer technology offers tremendous opportunities for the legal profession and the judiciary to improve their service to the community," said UBC President pro tem. Robert Smith. 'Computers can greatly reduce the time and effort spent searching through legal libraries and processing court orders, for example. This project will have a significant impact on how law is studied, taught, practised and applied. The overall aim of the project is to help legal professionals provide better, more efficient and cheaper services to the public: We are grateful for IBM's support of our research in this area."

UBC will search for a variety of ways computers can be used to improve legal productivity. A major focus of the agreement will be the development of a sentencing database for the judiciary. The faculty plans to establish a database of Provincial and Court of Appeal sentences that will allow judges to quickly review sentences given in cases similar to those they are considering. With this information judges will be

aided in providing consistent and fair sentences.

A second project will involve the development of computer-assisted "expert systems" to aid lawyers in their legal research. Lawyers dealing with cases outside their area of specialization can use the expert system to guide them to the research material that is relevant to their case, thus reducing the time previously spent sifting through large quantities of research material in search of relevant information.

The law faculty will also focus on developing computer-assisted instructional packages and computer literacy courses for law students and legal professionals, computer systems for legal clinics and productivity tools for the judiciary.

Under the agreement, IBM will donate an IBM 4300 computer system, 122 IBM Personal Computers, as well as appropriate software and personnel assistance. UBC will contribute faculty research time and facilities in excess of \$1.6 million.

UBC's law faculty opened a computing facility in the Curtis Building in January, 1985, with funds from the University and the Law Foundation of British Columbia. As a result of the UBC-IBM agreement the facility will be expanded to include two new classrooms and an increased research capacity.

# UBC scientist awarded Science Council medal

Dr. J. Keith Brimacombe, director of the Centre for Mineral Process Engineering at UBC and a Stelco Professor in the Department of Metallurgical Engineering, has received one of three Gold Medals awarded by the Science Council of British Columbia for 1985. The awards, which have been given annually since 1980, honor researchers who have made outstanding and innovative contributions to the fields of science and engineering.

Gold medals were also awarded to Dr. John Borden, an SFU biologist, and Dr. Robert Noble, a retired UBC faculty member who is currently a senior research scientist at the Cancer Control Agency of B.C. Dr. Borden, who leads a team of SFU and UBC scientists in developing ways to control the infestation of mountain pine beetles in B.C.'s forests, received a medal in the category of Applied Natural Sciences. Dr. Noble, who was a member of the **UBC Faculty of Medicine from 1960** until his retirement in 1975, received a medal in the Health Sciences category. Dr. Noble received world-wide acclaim for his role in the discovery of Vinblastine, a chemical used in the treatment of cancer. He has also made significant contributions to the study and treatment of breast cancer.

Dr. Brimacombe is internationally known for his research on the analysis, design and modelling of metallurgical processes. Since 1970 he has been conducting research on processes in which metals are extracted from their ores and converted into useful products. Dr. Brimacombe received a medal in the category of Applied Science.

Dr. Andre Van Schyndel, who received his Ph.D. in physics from UBC in 1984, has been awarded an Industrial Post Doctoral Fellowship worth \$25,000 by the Science Council of British Columbia.

Dr. Van Schyndel, 29, has received wide acclaim for the devices he has built to assist people with impaired hearing and sight. One device takes the normal frequencies of the recorded human voice and drops them to a level many deaf people can detect and understand. Another is a voice indexer that enables blind people to find quickly the sections they want to listen to in recorded books.

The Science Council Fellowship will be paid to Ambrex International Incorporated, a Burnaby firm, enabling them to employ Dr. Van Schyndel in their research and development division. The firm plans to use his skills and knowledge to develop a low-cost audio cassette recorder/player capable of transmitting pre-recorded voice information over telephone lines at speeds up to ten times faster than normal speech.

The Industrial Post Doctoral Fellowship program was established by the Science Council of British Columbia to

encourage private companies in B.C. to hire recent Ph.D. graduates in jobs related to their fields of expertise.



Keith Brimacombe

## United Way campaign continues on campus

The 1985 United Way Appeal is in full swing on the UBC campus and campus chairman Prof. Dennis Pavlich of the law faculty is urging members of the university community to be generous in their support of the appeal. "Unfortunately there's a tendency for charitable contributions to decline in difficult economic times, when those in need are more dependent than ever on our help," he said. "I hope that the UBC faculty, staff and students will meet the challenge of this year's appeal and will show the generosity they have in the past."

Those making donations through the payroll deduction plan have a bonus this year—they will be eligible for a draw in November of return airfare for two to San Jose Airport (45 minutes from San Francisco). The prize was donated by AIR CAI.

## Man-in-Motion

**Update: Oct. 23, 1985.** Rick Hansen has travelled 8,700 miles on his round-theworld-wheelchair tour to raise funds for spinal cord research and rehabilitation, and is currently in Zaragoza, Spain. Contributions in B.C. so far total \$450,000. If you'd like to make a donation, call 687-5200. Call this number if you're prepared to volunteer to help with tour administration.

## Board of Governors gives approval to Athletic Council

UBC's Board of Governors has approved the establishment of a 16-member Athletic Council to integrate the operation of all University athletic programs and administer an athletics budget which will total almost \$2.5 million in 1985-86.

In addition to drawing up an annual athletics budget for approval by the Board of Governors, the council is charged with making recommendations for "the use and development of present and future athletic facilities."

Chairing the new council in a non-voting capacity will be Dr. Neil Risebrough, associate vice-president, student services, who has worked out the makeup and duties of the new body in consultations with the Alma Mater Society

The voting members of the council, who will total 15, are:

- Five students appointed by the AMS;
- Five University appointees approved by the Board of Governors;
- Four alumni, two appointed by the AMS and two appointed by the University; and
- Dr. Robert Hindmarch, director of sports services at UBC.

The new athletic set-up also envisages at least four committees to advise the council on various aspects of UBC's athletic program. Proposed are separate committees on men's and women's interuniversity athletics, a third on intramural sports and a fourth on recreation and sports services.

The recommendation that went to the Board on Thursday (Oct. 17) also recommended that the Department of Athletics and Sports Services be operated as an ancillary service with a subsidy of \$525,000 from University operating funds in the current fiscal year.

## Eleven nominated for UBC Board

A total of eleven members of UBC's support staff have been nominated for the Board of Governors' position which is open to a full-time employee who is not a faculty member.

Nominations for the position on UBC's 15-member Board closed at 4 p.m. yesterday (Oct. 22). Up for election are: Sandra Bruneau, Admissions Office; Avron Hoffman, Library; William Johnson, Campus Mail Room; George McLaughlin, Physical Plant; William Morrison, Department of Physics; Jeannine Kapelus, Computing Centre; George Bradley, Department of Zoology; Nigel Harrison, Department of Pathology; Kerry Regier, Library; Ken Langland, Centre for Continuing Education; and Shurli Channe, Community Relations.

The election was necessitated by the early retirement of Victor Doray, former head of the Department of Biomedical Communications in the Faculty of Medicine. The individual elected to the post will complete Mr. Doray's unexpired term of office, ending Jan. 31, 1987.

Ballots for the election will be mailed to eligible voters this week, according to Kenneth Young, UBC's Registrar, who is responsible for the conduct of elections to UBC's Board and Senate.

In other election news, UBC's Senate, at its October meeting, approved a schedule for the election to Board and Senate of student representatives, who serve for one year.

Nominations for two student positions on the Board and 17 positions on Senate will close on Friday, Dec. 6. Election polling will take place Jan. 15, 16 and 17.

This places the sports program on the same footing as other campus ancillary services such as the Bookstore, Food Services and student residences, which must meet their annual operating costs out of user revenues.

The Board was told that the AMS

executive had asked for assurances that the University will not reduce support from operating funds in future years and that any surplus remaining at the end of the year may be retained in a reserve fund for future development.

Vice-president administration and

finance Bruce Gellatly told the Board that a \$525,000 annual subsidy to athletics should be supported in principle but that funding levels would have to be reassessed from time to time in the light of the University's financial circumstances.

## Memorial service held for Neville Scarfe

A memorial service was held on Oct. 13 for Neville V. Scarfe, UBC education dean from 1956 to 1973, who died on Oct. 8 at the age of 77. More than 200 faculty members attended the service, which was held in the UBC Scarfe Education Building.

Born in England, Dean Scarfe was educated at the University of London where, at the age of 19, he was the youngest person to place first in the final exams for the Bachelor of Arts degree.

He taught at the Universities of Nottingham and London for a total of 20 years before emigrating to Canada to become education dean at the University of Manitoba in 1951. During the Second World War, Dean Scarfe was on leave of absence from the University of London as director of Press Censorship in the British Ministry of Information.

Dean Scarfe was regarded as one of

the most distinguished scholars in the field of education when he was appointed to head the newly organized Faculty of Education at UBC in 1956. The new UBC faculty took over responsibility for all teacher training in B.C. from provincial normal schools.

Throughout his career as an educational administrator, Dean Scarfe continued to take an active interest in his academic discipline, geography. He was chairman of a four-year study (1952-56) of the International Geographical Union Commission of the Teaching of Geography and was an associate editor for almost a decade of the Journal of Geography published by the National Council for Geographic

Education, which he served as president of in 1965.

He was the recipient in 1975 of the council's G.J. Miller Award for "distinguished service to geographic education."

Dean Scarfe was also a prolific author who produced five books and more than 125 articles on education and geography.

Following his retirement from UBC, Dean Scarfe played an active role in the affairs of Brock House at Jericho Beach, an activity centre for seniors. He was president of the organization shortly before his death.

Dean Scarfe is survived by his wife Gladys, known as Paddy to the University community, three sons and six grandchildren.

## Co-op students receive awards for technical reports

For the fifth consecutive year, UBC cooperative education students have received awards for outstanding technical reports from the UBC Co-op Employers' Advisory Councíl. The awards were made at the council's fall meeting on Oct. 18.

The three award winners among this year's 100 Engineering and Agricultural Sciences Co-op students are Marion Adams in third-year Engineering Physics, James Elder in third-year Electrical Engineering and Winnie Lai in second-year Electrical Engineering. Marion Adams, recipient of an NSERC undergraduate research award, worked with Dr. Peter Lawrence in the

Department of Electrical Engineering on Control Simulation of a Robot Manipulator. James Elder worked with Dr. Jim McEwen in the Bio-Engineering Department of Vancouver General Hospital on the software interface between a computer and Neuromatic Electromyograph and Winnie Lai worked on the design of a test module for oil and paper insulation, a joint project of the B.C. Hydro Research Laboratory and Dr. K.D. Srivastava, head of Electrical Engineering at UBC.

The three companies providing awards this year are Empress Foods, represented on the advisory council by the President, Mr. Bill Gough; MacDonald Dettwiler and Assoc., represented by the Manager, Human Resources, Systems Division, Mr. Chris Morris, and MacMillan Bloedel Research, represented by Senior Vice-President, Dr. Otto Forgacs.

The UBC co-op programs, which have offered study-related work experience to UBC Engineering students during the last eight summers, received a four-year grant from Canada Employment this year to develop a year-round co-op program in Electrical Engineering. The Department of Computer Science will start a year-round co-op program in January, 1986. A new co-op coordinator, Mr. David Smith, has joined the co-op office on campus to develop these new programs.

## MLAs spend a day on campus

The visit of the Social Credit Party caucus to the University scheduled for tomorrow (Oct. 24) has been cancelled because of an emergency caucus meeting in Victoria. The Socred visit will be rescheduled for early November.

New Democratic Party MLAs and caucus researchers visited the campus as part of National Universities Week yesterday (Oct. 22).

The schedules for both visits are identical, in keeping with the non-partisan nature of the University.

A tour of the campus in the morning includes visits to a satellite imaging research laboratory in the oceanography department, a pilot-plant tree seedling nursery in the Faculty of Forestry, the Botanical Garden nursery where unique plant stock is introduced into the commercial nursery trade, and a food pilot plant in the food science department.

During lunch MLAs have an opportunity to meet student and faculty representatives and members of the senior University administration.

Two workshops in the afternoon on industry liaison and technology transfer, and international trade and the Pacific Rim are followed by a tour of the music and theatre departments. The visits end

with a reception.

The Office of Community Relations has organized MLA Days for more than 10 years.

## **Faculty Club expands**

UBC's Faculty Club will borrow \$652,000 to build a two-storey wing to the club that will contain 12 bedrooms for visitors to the University.

UBC's Board of Governors last week authorized the club to proceed to working drawings for the development after learning that the University will not be required to make any contributions to the project. The loan to build the addition will be paid out of user revenues.

Prof. J.F. Richards, chairman of the club's board of directors, told the UBC Board that the project was designed to alleviate a chronic under-supply of accommodation for visitors to the University, most of whom now had to be put up in off-campus hotels.

### **Science Frontiers**

The first of five forums on basic research and applied technology at UBC was held yesterday (Oct. 22) at the Robson Square Media Centre under the auspices of Placer Development Corp. and UBC's Faculty of Science.

Entitled Science Frontiers, the half-day forums will explore projects from which will come tomorrow's economic opportunities and challenges.

The series is the first major undertaking of the Faculty of Science's public relations committee and was organized on its behalf by Prof. Douglas Beder of the physics department and Mr. David Vogt, department curator for geophysics and astronomy.

Although the forums are the creation of the Faculty of Science, research in a number of UBC faculties is featured. A brochure on the series can be obtained from Prof. Beder at 228-3853.





## CALENDAR

#### **Calendar Deadlines**

Notices for the period Nov. 10 to 23 must be submitted by 4 p.m. on Thursday, Oct. 31 to UBC Community Relations, 6328 Memorial Road, Room 207, Old Administration Building. Notices must be submitted on proper calendar forms. For more information, call 228-3131.

#### THE VANCOUVER INSTITUTE. Saturday, Oct. 26



Raven's Treasure House: Northwest Indian Art and Culture. Dr. George F. MacDonald, director, National Museum of Man, Ottawa.

**Saturday, Nov. 2**DAL GRAUER MEMORIAL LECTURE. Blood and Thunder, Margaret Atwood, Canadian author.

Lecture Hall 2, Woodward Instructional Resources Centre. 8:15 p.m. Free admission.

## **SUNDAY, OCT. 27 French Intensive Sunday.**

All-day French conversational program. \$50 includes lunch and dinner. For information, call Language Programs and Services, Centre for Continuing Education, 222-5226. Room D318, Buchanan Building. 10 a.m. — 10 p.m.

#### MONDAY, OCT. 28 Asian Studies Lecture.

Poetry in Sanskrit Plays. Mr. A.V. Subramanian, Madras, India. Room B234, Buchanan Building. 2:30 p.m.

#### Mechanical Engineering Seminar.

John Fitz-Clarke on Numerical Studies of Ship Stability in Beam Seas and G. Sadasivan on Improvements for B.C. Fishing Boats. Room 1202, CEME Building. 3:30 p.m.

#### **Applied Mathematics Seminar.**

Modeling Groundwater: Irreversible Investment. Common Property Exploitation, and Boom-and-Bust Irrigation Agriculture in the Arid West. Prof. Robert McKelvey, Mathematical Sciences, University of Montana. Room 229, Mathematics Building. 3:45 p.m.

## **Bus service offered**

UBC's Department of Traffic and Security is again providing a free, evening bus service for members of the campus community. The eightpassenger mini-bus operates daily from 7 to 11 p.m., primarily as a safety service for female students, faculty and staff.

The service originates from in front of the Main Library and delivers passengers to various outlying parking lots and campus residences. The bus has no set schedule or route, leaving when a group of passengers is aboard and taking them to their desired destinations. Residents of Totem, Vanier, Gage and Acadia wishing transportation to the B-lots or the library may contact Traffic and Security's Communications Operator at 228-4721. Although priority is given to female passengers, male riders will be accommodated on a space-available basis.

"This is intended as a safety service, offered to female members of the university faced with long walks to their cars or residences," said Traffic and Security director Al Hutchinson. "It is not intended as taxi service to social events and therefore side trips to the campus social areas cannot be made." "The service has proved popular with the students in the past," he added, "and we intend to maintain the bus runs, manpower permitting."

The service is suspended during mid-term and summer breaks.

## **Biochemical Discussion Group/ Biochemistry Seminar.**

Genome Rearrangements and Regulation of Gene Expression in Tetrahymena and Yeast. Dr. Ronald Pearlman, Biology, York University. IRC #4. 4 p.m

#### **Astronomy Seminar.**

Halley's Comet. Dr. Jeremy Tatum, University of Victoria. Room 202, Hennings Building. 4 p.m.

#### Physiology Seminar.

An Old and New Look at the Calcitonin Family. Dr. D.H. Copp, Professor Emeritus, Physiology, UBC. Room 2605, Physiology Department, D.H. Copp Building. 4:30 p.m.

#### **Hellenic Cultural Society Lecture.**

J.J. Bachofen: A Swiss Traveller in Greece, 1851. Dr. Harry Edinger, Classics, UBC. Hellenic Community Centre, 4500 Arbutus St. 8 p.m.

#### TUESDAY, OCT. 29 Library & Archival Sciences Lecture.

The Canadian Library Association: Role and Future. Beth Miller, President, Canadian Library Association & Rare Books Librarian, University of Western Ontario. Room 835, North Wing, Main Library. 11:30 a.m.

#### **Asian Studies Lecture.**

Nature and Sentiment in Indian Literature. Mr. A.V. Subramanian, Madras, India. Seminar Room 604, Asian Centre. 12:30 p.m.

#### **Botany Seminar.**

Evolution and Biogeography of Selected Red Algae. Paul Gabrielson, Botany, UBC. Room 3219, Biological Science Building. 12:30 p.m.

#### **Chemistry Seminar.**

Chemical Studies of Contractile Proteins. Prof. Ralph G. Yount, Chemistry and Biochemistry, Washington State University. Room 250, Chemistry Building. 1 p.m.

#### International Scene.

Central America Today From the Native Point of View. Dr. Blanca Muratorio, Anthropology & Sociology, UBC. \$7. Sponsored by The Centre for Continuing Education. Robson Square Media Centre, 800 Robson St. 1:30—3 p.m.

#### **SSHRC Presentation.**

Dr. Erika Bruce, director general of the Program Branch, will discuss changes to SSHRC programs. Room A102, Buchanan Building. 2:30 p.m.

#### Statistics Workshop.

Spacings Between Record Values. Prof. Harry Joe, Statistics, UBC. Room MA225, Mathematics Building. 3:30 p.m.

#### Metallurgical Engineering Seminar.

Thermal Regime in the Electron Beam Hearth. D. Tripp, UBC. Room 317, Frank Forward (Metallurgy) Building. 3:30 p.m.

#### **Economics Applied Workshop.**

Obtaining Any Wald Statistic You Want. Francine Lafontaine & Ken White, UBC. Room 351, Brock Hall. 4 p.m.

#### WEDNESDAY, OCT. 30 Noon-Hour Concert.

Joanne Opgenorth, violin, and James Parker, piano, play music of Saint-Saens and Brahms. Recital Hall, Music Building. 12:30 p.m.

## Pharmacology & Therapeutics Seminar.

Control of Cardiovascular Responses to Diving in Ducks. Dr. David Jones, Zoology, UBC. Room 317, Basic Medical Sciences Building, Block C. 12 noon

#### Germanic Studies Film.

Fact and Fiction: Thomas Mann's "Death in Venice". In English. Room A106, Buchanan Building. 12:30 p.m.

#### E.S. Woodward Lecture.

Tax Reform: The Flat Tax and the Current Debate. Prof. Robert E. Hall, Hoover Institution on War, Revolution and Peace; Stanford University. Room 104, Henry Angus Building. 12:30 p.m.

#### Forestry Seminar.

Towards a Canadian Fifth Generation Plan for Natural Resource Management. Dr. R.J. Woodham, Forestry, UBC. Room 166, MacMillan Building. 12:30 p.m.

#### **Anthropology & Sociology Lecture.**

Peopling of the Pacific Islands. Prof. Roger Green, Anthropology, University of Auckland, New Zealand. Room A104, Buchanan Building. 1:30 p.m.

#### English Colloquium.

GBS and Thucyderodotus Macollybuckle: Bernard Shaw's Sense of History. Prof. Jon Wisenthal, English, UBC. Buchanan Penthouse. 3:30 p.m.

#### Geography Colloquium.

Astronomy and Ritual Space in the Orient. Richard Copley, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

#### **Animal Resource Ecology Seminar.**

Biological Management of a Multispecies Trawn Fisher in Tropical Australia. Dr. Keith Sainsbury, SCIRO, Division of Fisheries Research, Hobart, Tasmania. Room 2449, Biological Science Building. 4:30 p.m.

#### International Scene.

Central America Today From the Native Point of View. Dr. Blanca Muratorio, Dept. of Anthropology & Sociology, UBC. \$7. Sponsored by The Centre for Continuing Education. Room 305, Carson Graham Senior Secondary School, 2145 Jones Ave., North Vancouver. 8 p.m.

### THURSDAY, OCT. 31 E.S. Woodward Lecture.

Monetary Reform: Deregulation with Price Stability? Prof. Robert E. Hall, Hoover Institution on War, Revolution and Peace, Stanford University. Room 104, Henry Angus Building. 12:30 p.m.

## Science, Technology and Society Studies/Science for Peace Lecture.

From Myth to Policy in the Nuclear Arms Race. Prof. F.H. Knelman, Gamma Institute, Montreal Room A104, Buchanan Building. 12:30 p.m.

#### Rehabilitation Medicine Lecture.

Motor Cortical Control of Reaction Time Delays: Matching of Peripheral Movement Parameters to Central Motor Programs. Dr. Marnie Jane Eastman, Helen Scott Playfair Memorial Neuroscience Unit, University of Toronto. IRC #1. 12:30 p.m.

## Reproductive Endocrinology and Infertility Seminar.

Report from Ferring Symposium on GnRH. Dr. Timothy C. Rowe, Obstetrics and Gynaecology, UBC. Room 2J41, Grace Hospital. 1:30 p.m.

#### **Physics Colloquium.**

Oscillations of the Solar System Perpendicular to the Galactic Disk, and Terrestrial Catastrophes. Dr. William Shuter, Physics, UBC. Room 201, Hennings Building. 4 p.m.

#### International, Scene.

Central America Today From the Native Point of View. Dr. Blanca Muratorio, Dept. of Anthropology & Sociology, UBC. \$7. Sponsored by The Centre for Continuing Education. Robson Square Media Centre, 800 Robson St. 8 p.m.

## FRIDAY, NOV. 1 Dal Grauer Memorial Lecture.

After Survival. Margaret Atwood, Canadian author. Frederic Wood Theatre. 12:30 p.m.

#### **UBC Chamber Singers.**

Cortland Hultberg, director. Recital Hall, Music Building. 12:30 p.m.

#### Medical Genetics Seminar.

Generation of DNA Probes for the Human X Chromosome. Terry Starr and Ann Marie Howell, Medical Genetics, UBC. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1 p.m.

#### Linguistics Colloquium.

Binding Theory, Bioprogram and Creolization: Evidence From Haitian Creole. Guy Carden, Linguistics, UBC. This talk reports joint work with William A. Stewart of CUNY. Room D224, Buchanan Building. 3:30 p.m.

#### **Economics Labour-Macro Workshop.**

The Comparative Macroeconomics of Stagflation.
John Helliwell, UBC. Room 351, Brock Hall. 4 p.m.

#### **UBC Chamber Singers.**

Cortland Hultberg, director. Recital Hall, Music Building. 8 p.m.

## SATURDAY, NOV. 2 Fitness for Life.

Ted Rhodes, associate professor and head, Buchanan Fitness Laboratory, UBC. \$59 includes testing, materials and lab fee. Enrolment limited. Room 30, War Memorial Gym. 9 a.m.—4 p.m.

#### CCE Seminar.

Young Adults: What They Are Reading and Why? Corinne Durston, MLS, Head, Boys and Girls Dept., Vancouver Public Library; Sheila Egoff, Professor Emeritus, UBC; Wendy K. Sutton, coordinator of English Education, Faculty of Education, UBC. \$16. For registration information, call 222-5261. Room 50, Family and Nutritional Sciences Building. 9:30 a.m.—12:30 p.m.

#### Health Sciences Research Day.

Undergraduates, graduates, and post-doctoral students in the Health Sciences will present 72 papers. A panel of 18 judges will select the 10 best papers and cash prizes will be awarded. For more information, call 228-3413. Woodward Building Lecture Halls. 11 a.m.—5 p.m.

#### MONDAY, NOV. 4 UBC Remote Sensing Seminar.

Current, Meanders and Eddies Inferred From AVHRR Imagery. Prof. W. Emery, Oceanography, UBC. Room 266, MacMillan Building. 12:30 p.m

#### Germanic Studies Lecture.

The Austrian Literary Scene After 1945. Peter Marginter, Austrian author and diplomat. Cosponsored by the Committee on Lectures. Penthouse, Buchanan Building. 12:30 p.m.

#### Germanic Studies Seminar.

Reading from his works. Peter Marginter, Austrian author and diplomat. Penthouse, Buchanan Building. 3:30 p.m.

#### Mechanical Engineering Seminar.

Bio-Engineering at Vancouver General Hospital. Dr. C. Small, Bio. Eng., Vancouver General Hospital. Room 1202, CEME Building. 3:30 p.m.

#### **Applied Mathematics Seminar.**

Numerical Simulation of Semiconductor Devices. Dr. Christian Schmeiser, Institute of Applied Mathematics, University of Vienna. Room 229, Mathematics Building, 3:45 p.m.

## Lipid and Lipoprotein Discussion Group/Biochemistry Seminar.

The Occurrence of Glycosphigolipids as Tumor-Associated Antigens and the Regulation of Their Biosynthesis. Dr. Charles Sweeley, Michigan State University. IRC #4. 4 p.m.

#### Physiology Seminar.

The Role of Aldosterone and Aldosterone Binding Globulin in Experimental and Spontaneous Hypertension. Mark Nowaczynski, graduate student, Physiology, UBC. Room 2605, Physiology department, D.H. Copp Building, 4:30 p.m.

#### Canadian Library Association.

The Art of Professional Communication. Maureen Garland, Director of Communications and Continuing Education, Faculty of Agricultural Sciences, UBC. Room 835, Main Library. 7:30 p.m.

## **TUESDAY, NOV. 5 Botany Seminar.**

Chloroplast DNA and the Molecular Evolution of the Laminariales (Phaeophyta). Steve Fain, Biology, SFU. Room 3219, Biological Science Building.

#### Chemistry Seminar.

Computer Simulations of Surfaces, Interfaces and Physisorbed Films. Dr. Farid F. Abraham, IBM Research Laboratory, San Jose, California. Room 250, Chemistry Building. 1 p.m.

#### **Chemical Engineering Seminar.**

Process Intensification in Chemical Plant. Dr. Colin Ramshaw, ICI Mond Division, England. Room 206, Chemical Engineering Building. 1:30 p.m.

#### International Scene.

Liberation Theology: A Response to Latin American Socio-Economic Realities. Rev. Art Van Seters, Principal, Vancouver School of Theology: \$7. Sponsored by The Centre for Continuing Education. Robson Square Media Centre, 800 Robson St. 1:30—3 p.m.

#### **Economics Applied Workshop.**

General Equilibrium Modelling: Where is it Going? Jean Waelbroeck, University Libre de Bruxelles & UBC. Room 351, Brock Hall. 4 p.m.

#### WEDNESDAY, NOV. 6 Noon-Hour Concert.

Caroline Cole, violin; Steven Dann, viola; Roger Cole, oboe; Frderick Schipizky, string bass; and Elizabeth Volpe, harp. Recital Hall, Music Building. 12:30 p.m.

## Pharmacology & Therapeutics Seminar.

Ca++-Binding Protein, Parvalbumin and Calcinurin in the Nervous System. Dr. K.G. Baimbridge, Physiology, UBC. Room 317, Basic Medical Sciences Building, Block C. 12 noon.

#### **Obstetrics Research Seminar.**

An Examination of the Evidence for the Efficacy of Drug Treatment of Premature Labour. Dr. J. King, Obstetrics & Gynecology, Grace Hospital. Room 202, The Research Centre. 950 W. 28th Ave. 12\* noon.

#### Forestry Seminar.

Preventing and Resolving Public Controversy in Forest Management. Mr. D.M. Connor, Connor Development Services Ltd., Victoria. Room 166, MacMillan Building. 12:30 p.m.

#### Geography Colloquium.

Economic Geography and Theories of Economic Value. Trevor Barnes, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

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#### Frederic Wood Theatre.

Opening night of William Congreve's play Love for Love. Continues until Nov. 16 (except Sunday). For ticket information and reservations, call 228-2678 or drop by Room 207 of the Frederic Wood Theatre. 8 p.m.

#### International Scene.

Liberation Theology: A Response to Latin American Socio-Economic Realities. Rev. Art Van Seters, Principal, Vancouver School of Theology. \$7. Sponsored by The Centre for Continuing Education. Room 305, Carson Graham Senior Secondary School, 2145 Jones Ave., North Vancouver. 8 p.m.

#### THURSDAY, NOV. 7 Cooperative Education Programs.

Co-Op Education Information Meeting for first-year engineering students. Mrs. Maryke G. Gilmore, Director, Cooperative Education Programs. For further information, come to Room 213, Brock Hall or call 228-3022. Room 200, Computer Science Building. 12:30—2 p.m.

#### German Film.

Full-length movie on video cassette. Katrina Blum (sub-titles). Room A205, Buchanan Building. 12:30 p.m.

#### **Physics Colloquium.**

Icosahedral Order in Nature. Dr. David Nelson, Physics, Harvard University. Room 201, Hennings Building. 4 p.m.

#### **Economics Seminar.**

Union-Threat Effects: Theory and Evidence. Prof. W. Dickens, University of California, Berkeley. Room 351, Brock Hall. 4 p.m.

#### International Scene.

Liberation Theology: A Response to Latin American Socio-Economic Realities. Rev. Art Van Seters, Principal, Vancouver School of Theology. \$7. Sponsored by The Centre for Continuing Education. Robson Square Media Centre, 800 Robson St. 8 p.m.

### FRIDAY, NOV. 8 English Lecture.

Shakespeare Scholarship and the Modern Theatre. Prof. Stanley Wells, Senior Research Fellow, Balliol College, Oxford and Senior Editor of the Oxford Shakespeare. Co-sponsored by the Committee on Lectures. Room A100, Buchanan Building. 12:30 p.m.

#### **Medical Genetics Seminar.**

Lymphocyte Cell Surface Proteins. Dr. Fumio Takei, Medical Genetics and Terry Fox Lab, B.C. Cancer Research Centre, VGH. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1 p.m.

#### English Seminar.

Re-editing Shakespeare: Why Bother? Prof. Stanley Wells, Senior Research Fellow, Balliol College, Oxford and Senior Editor of the Oxford Shakespeare. Penthouse, Buchanan Building. 3:30 p.m.

#### **Distinguished Lecturer Series.**

Application of Transport Phenomena in the Design of High-Intensity Flash Smelting Processes. Prof. N.J. Themelis, Columbia University. Room 317, Frank Forward (Metallurgy) Building. 3:30 p.m.

#### Linguistics Colloquium.

Lexical Phonology of Turkish. Jumah Hameed, Linguistics, UBC. Room D224, Buchanan Building. 3:30 p.m.

#### **Economics Labour-Macro Workshop.**

Minimum Wage Legislation in a Dual Labour Market. Stephen Jones, UBC. Room 351, Brock Hall. 4 o.m.

#### **CCE Presentation.**

Living on the Edge of the Sea: In an Age of Ecology DAn evening lecture on innovative projects and experiments for living on the edge of the sea, sponsored by the Centre for Continuing Education. John Todd, Ph.D. and Nancy Jack Todd, authors, co-founders of the New Alchemy Institute and Ocean Arks International on Cape Cod, Massachusetts. \$7. For tickets, call 222-5261. Auditorium, Vancouver Museum/Planetarium, 1100 Chestnut. 8 p.m.

## Ethnomusicology/College Music Society Concert.

Euro-Canadian Folk Music. Instrumental and vocal music performed by members of the Vancouver Folk Song Society and The Suffering Gaels. Event co-sponsored by the VFFS. Informal music and cash bar following the concert in Cinema lobby. Tickets are \$6. Available at the Department of Music. For further information, call 228-3113. Cinema, Robson Square Media Centre. 8:30 p.m.

### SATURDAY, NOV. 9 CCE Seminar.

Ecology Coming of Age: Weekend seminar exploring the integration of scientific discovery, business enterprise and the ethics of earth stewardship. John Todd, Ph.D. and Nancy Jack Todd, authors, co-founders of the New Alchemy Institute and Ocean Arks International on Cape Cod, Massachusetts. Continues on Nov. 10. \$50 Saturday only; \$95 weekend including Friday lecture. Auditorium, Vancouver Museum/ Planetarium, 1100 Chestnut. 10 a.m.—4 p.m.

## Ethnomusicology/College Music Society Concert.

Kwakiutl Music and Dance. A program of Northwest Coast Native music performed by the Hunt Family□□Fort Rupert Singers. The 12-member troupe will stage a Potlatch, with traditional Kwakiutl music, costume and dance. Tickets are \$10. Available at the Department of Music. For further information, call 228-3113. Cinema, Robson Square Media Centre. 8 p.m.

#### Notices . . .

#### **Ballet UBC Jazz**

Unlimited classes being offered for \$45 a term. Ballet/jazz/strength and stretch/and dancercise classes. Office hours everyday, room 208, SUB, 12:30—1:30 p.m.

#### Bookstore

November will be a very busy month at the Bookstore with special events almost every day.

Nov. 4—8: COMPUTERS & ELECTRONICS WEEK:

IBM, Sperry, Wang and Olivetti computer demonstrations. Computer consultants will be available to answer your questions. Nov. 12—15:

ARTISTS IN ACTION: Local artists will be demonstrating techniques and medias in oils, acrylics, pen & ink, pencil crayon and water colours. Nov. 18—22: FALL FASHIONS: Every day of this week will be dedicated to a specific manufacturer's sportswear collection. Watch for discount coupons in The Ubyssey. Nov. 25—29:

CHRISTMAS THEMES: Live music and visits by authors will set the scene for many gift suggestions for Christmas.

#### **Badminton Club**

Faculty and Staff Badminton Club meets Tuesdays 8:30—10:30 p.m. and Fridays 6:30—9:30 p.m. in Gym B of the Robert Osborne Sports Centre. New members welcome.

## The Expressive Hand: Images of Buddha

Twenty photographic enlargements and thirty large silk banners dealing with various aspects of Buddha sculptures of India, Burma, Thailand, China and Japan. Special programs will be given on weekends. Presented by the Canadian Society for Asian Arts. Co-sponsored by the Institute of Asian Research. Free admission. Asian Centre Auditorium. 12—5 p.m., Oct. 29 to Nov. 15.

#### **Language Programs**

Non-credit conversational programs in French and Spanish begin the week of Oct. 28. An all-day French Intensive Sunday is offered on Oct. 27, 10 a.m.—10 p.m.; \$50 includes lunch and dinner. A Saturday morning class in Language Teaching Fechniques is also available. For more information, contact Language Programs and Services, Centre for Continuing Education, at 222-5227.

#### **AMS Bargain Boutique**

Tuesday, Oct. 29 through Friday, Nov. 1, the AMS presents Bargain Boutique, a vendor event featuring clothing, makeup, jewellry and gift items at bargain bazaar prices. SUB Main Concourse. 10 a.m. – 4 p.m.

#### Mahlheit

German club. Meets every Monday from 12:30—1:30 p.m. Everyone welcome. Room B224, Buchanan Building.

#### **Child Study Centre Lectures**

UBC Child Study Centre presents a lecture series—Beyond Monday Morning: A New Look At Curriculum Theory and Practise. Five sessions. First Session: Nov. 23. The Other Half of the Child: A discussion of the role of imagination in children's learning and implications for the curriculum, by Dr. Kieran Egan, Professor, Curriculum Development, Faculty of Education, Simon Fraser University. Fees: \$60 for series. Single lectures: \$15. For additional information phone the Field Development Office, 228-2013. Child Study Centre, 4055 Blenheim. 9 a.m.—12 p.m. Saturdays.

#### **UBC Hosts Music Meetings**

Four of North America's leading musical organizations will meet in Vancouver Nov. 7—10 with the UBC Department of Music acting as host. The American Musicological Society meets in the Hotel Vancouver, the College Music Society and the Society for Ethnomusicology in the Hyatt Regency Hotel and the Society for Music Theory in the Four Seasons Hotel. Registration and other information is available from the Department of Music, 228-3113.



#### **WEDNESDAY, OCT. 23**

**FORUM** on University education sponsored by the Alma Mater Society in the Conversion Pit of the Student Union Building. 12:30 p.m.

COLORADO STRING QUARTET plays music by Shostakovich, Hadyn and Cesar Franck. Tickets: \$8; \$5 for students and seniors. For tickets and information, call 228-3113. Recital Hall, Music Building. 8 p.m.

FRIENDS OF THE BOTANICAL GARDEN lecture on The Great Plant Hunters by leading British horticulturalist Roy Lancaster, who has led botanical expeditions to China, Russia, India and Iran. Tickets: \$5 from the UBC Botanical Garden Office, 6501 Northwest Marine Dr. (228-3928), or at the door. UBC Faculty Club. 8 p.m.

UBC GEOLOGICAL MUSEUM lecture by Dr. Paul Hickson, UBC Department of Geophysics and Astronomy, on The Origins of the Universe—Was the World a Fluke? Donation at the door, \$2.50 per person, \$4 per couple, students and children free. Geological Sciences Building. 8 p.m.

#### **THURSDAY, OCT. 24**

**UNITED NATIONS DAY CONCERT** by the UBC Wind Symphony in the Old Auditorium. Marches and festive pieces from many countries. 12:30 p.m.

ARTS 20 RELAY RACE from the Fairview site where UBC first opened its doors adjacent to Vancouver General Hospital to the UBC campus. Largest event of its kind in Canada. Opening ceremonies begin at 12:30 p.m. on the south plaza of the Student Union Building. Finish line at the Cairn on the Main Mall at about 1:45 p.m.

GREAT TREKKER DINNER. Presentation of the Great Trekker Award to Dr. Franc R. Joubin, UBC graduate and one of Canada's leading exploration geologists. Tickets \$20 (\$10 students). Pre-dinner reception starts at 6:30 p.m. Ballroom, Student Union Building.

#### MARION WOODWARD NURSING LECTURE.

Mme. Marie-France Thibaudeau, dean of nursing at the University of Montreal, speaks on Nursing as a Positive Force in the Health-Care System. Free admission. Lecture Hall 2, Woodward Instructional Resources Centre. 8 p.m.

#### FRIDAY, OCT. 25

**CANADIAN FOOTBALL.** The UBC Thunderbirds meet the University of Calgary. Thunderbird Stadium. 5 p.m.

**UBC BAND FESTIVAL** Concert No. 1. Massed band performance of the *1812 Overture* by the Pacific Wind Symphony, UBC Wind Symphony and the 15th Field Artillery Band. Free admission. Old Auditorium. 7:30 p.m.

**HOCKEY.** UBC plays the University of Calgary. Thunderbird Winter Sports Centre. 7:30 p.m.

#### **SATURDAY, OCT. 26**

GREAT TREK PARADEbegins at Queen Elizabeth Theatre at 10:30 a.m. Proceeds through downtown Vancouver via Georgia and Burrard Streets.

**THUNDERBIRD ALUMNI ATHLETIC DAY.** Feature of the day is an old-boys rugby game in Thunderbird Stadium at 2:30 p.m.

MUSEUM OF ANTHROPOLOGY. Vancouver folk fiddler Keith Malcolm and Grizzly Frank, Canada's virtuoso on the world's oldest percussion instrument, the bones, combine for a program of red-hot Canadian reels, old-time hoedowns and haunting tunes. Free with museum admission. 3:30 nm.

**UBC BAND FESTIVAL** Concert No. 2 by the 15th Field Artiflery Band. Free admission. Recital Hall, Music Building. 12:30 p.m.

**UBC BAND FESTIVAL** Concert No. 3 by the UBC Wind Symphony. Free admission. Old Auditorium. 7:30 p.m.

SCHOLARSHIP BENEFIT CONCERT by Societa del Quartetto di Milano, playing music by Bach, Handel and Scarlatti. Co-sponsored by the Italian Cultural Centre. Ticket information: 228-3113. Recital Hall, Music Building. 8 p.m.

#### **SUNDAY, OCT. 27**

MUSEUM OF ANTHROPOLOGY. African Drums, a program of festive music of Nigeria by Asa and the Ogedemgbe Drummers. Free with museum admission. 2:30 p.m.

**UBC BAND FESTIVAL** Concert No. 4. High school honour bands conducted by Martin Berinbaum and Robert Welch. Free admission. Old Auditorium. 2:30 p.m.

#### VANCOUVER SOCIETY FOR EARLY MUSIC.

Cantatas and Concertos from the Baroque. Erica Northcott, soprano, and ensemble led by John Sawyer. Ticket information: 732-1610. Recital Hall, Music Building. 8 p.m.

**BOOKSTORE DISPLAY.** The office of the federal Secretary of State will mount a display on "Funding for Higher Education," in the foyer of the University Bookstore during National Universities Week.

FIRST CLASS MAIL

UBC Reports is published every second
Wednesday by Community Relations, UBC,
6328 whemorial Road,
4340.cower, B.C., V6T 1W5
Telephone 228-3131. Lorie Chortyk, editor,
lim Banham, contributing editor.