

UBC Reports

TOURS

TRIUMF, Canada's meson facility and the world's largest cyclotron located at UBC, offers daily tours during National Universities Week from Monday, Oct. 21 to Saturday, Oct. 26, beginning at 10 a.m. Tour lasts about an hour and a quarter. TRIUMF is located at the extreme southern end of Wesbrook Mall, the eastern boundary of the University.

UBC COMPUTING CENTRE. Guided tour of computing facilities at 2:30 p.m. daily from Monday, Oct. 21 to Friday, Oct. 25. Groups are asked to call in advance (228-3939) so that adequate guides can be available to escort visitors. The centre is located in the Computer Science Building.

UBC LIBRARY TOURS begin at 12:30 p.m. every Thursday throughout October and November from the lobby just inside the main entrance of the Main Library.

DISPLAYS AND EXHIBITS

A selection of paintings from the **AMS ART COLLECTION** by Canadian artists will be on display from 10 a.m. to 4 p.m. from Monday, Oct. 21 to Sunday, Nov. 1 in the AMS Art Gallery in the Student Union Building. A public reception to mark the opening of the display is planned on Oct. 21 from 7 to 10 p.m.

HISTORIC PHOTOGRAPHIC DISPLAYS of UBC activities over the years can be seen in the concourse of the Student Union Building and in the Main Library. Both buildings are open daily.

SCENIC WONDERS OF CHINA, a photographic display, is at the Asian Centre from Saturday, Oct. 19 to Sunday, Oct. 27. The exhibit is open daily from 12 noon to 5 p.m.

UBC's GEOLOGY MUSEUM features mining and mineral displays guarded by a dinosaur skeleton. Specimen mineral samples are for sale. Call 228-5586 for details.

FINE ARTS GALLERY. *The Plastimetric Connection*, an exhibition of drawings and sculptures by Josef Caveno has been held over until Oct. 26 in the gallery in the basement of the main UBC Library. Gallery is open Tuesday through Friday from 10 a.m. to 5 p.m. and on Saturday from 12 noon to 5 p.m.

HOMECOMING 1985

The UBC Alumni Association and the Alma Mater Society have organized a number of on- and off-campus events to mark **HOMECOMING 85** and **NATIONAL UNIVERSITIES WEEK**. Many of these are noted in the day-by-day listings below. Other events include: Celebrations marking the 40th anniversary of the Faculty of Law on Oct. 18 and 19 at the Law Building on campus and at the downtown Courthouse; annual general meeting of the School of Social Work Alumni Division at 6 p.m. on Oct. 22 at Cecil Green Park; a pot-luck supper for nurses at Cecil Green Park at 5:30 p.m. on Oct. 24 prior to the Marion Woodward Lecture (see listing on appropriate day below); reunion of the Class of 1935 and Mechanical Engineering '50 at separate functions on Oct. 25; and a reception and dinner for all classes of Engineering '50 at Cecil Green Park on Oct. 26. Details on these and other alumni events are available by calling 228-3313.

SATURDAY, OCT. 19

JAPAN - What to Know Before You Go, a one-day seminar sponsored by the Centre for Continuing Education and the Institute of Asian Research. A basic introduction to the history, economy and legal system of Japan for travellers and business people. For details, call 222-5272 or 222-5240. \$150, includes Japanese lunch and materials. Room 177, UBC Law Building. 9 a.m. - 4 p.m.

SATURDAY, OCT. 19

VANCOUVER INSTITUTE lecture by President William Saywell of Simon Fraser University. Topic - *Relevance and Our Universities: Responsibility or Red Herring?* Free admission. Lecture Hall 2, Woodward Instructional Resources Centre 8:15 p.m.

SUNDAY, OCT. 20

MUSEUM OF ANTHROPOLOGY special presentation by Michael Dunn, one of Canada's foremost guitar makers, on the History of the Guitar. He will describe the evolution of the instrument and will illustrate his presentation with examples played on instruments from the 16th century to the present day. Free with museum admission. 2:30 p.m.

NATIONAL UNIVERSITIES WEEK

OCTOBER 19 THROUGH 27

A varied menu of events has been arranged for the general public and the University community during National Universities Week, which begins on Oct. 19 and continues until Oct. 27.

The events listed on this page provide basic information on National Universities Week events at UBC. If you want more information about specific events, call the telephone number associated with the item or call UBC's Community Relations Office, 228-3131.



EXTENDING IDEAS INTO YOUR COMMUNITY

TUESDAY, OCT. 22

SCIENCE FRONTIERS, the first in a series of five forums on basic research and applied technology, begins at Robson Square Media Centre Theatre in downtown Vancouver. The series is a joint project of the UBC Department of Physics and Placer Development Ltd. A series of short presentations beginning at 9:15 a.m. will conclude with a noon-hour lecture on the Lithoprobe Project, Canada's major earth sciences project of the 1980s. No advanced technical knowledge required for the series. Series continues on Nov. 1, 12, 19 and 29 with forums on the application of pure physics research, research for new materials and applications, advanced instrumentation and imaging science. Brochure and further information available from Prof. Douglas Beder, UBC physics department, 228-3853.

REDEDICATION CEREMONY of the Student Cairn opposite Brock Hall on the East Mall. It's estimated students have given more than \$6 million to the University for construction of such buildings as Brock Hall, the War Memorial Gymnasium, the Aquatic Centre and the present Student Union Building. The student Cairn has on it plaques noting each building which students have helped to fund. 2:30 p.m.

MEET THE BOARD OF GOVERNORS. An opportunity for students to meet members of one of UBC's main governing bodies. Starts at 8 p.m. in The Pit, Student Union Building.

WEDNESDAY, OCT. 23

FORUM on University education sponsored by the Alma Mater Society in the Convergence 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.

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GRANT DEADLINES

Grant Application Deadlines: Nov. 1985

- Agriculture Canada (CPD)
 - New Crop Development Fund (1)
- Agriculture Research Council of Alberta
 - Farming for the Future (1)
- American Council of Learned Societies
 - Mellon Fellowships for Chinese Studies (15)
- American Lung Association
 - Research (1)
- Canada Israel Fdn. Academic Exchange
 - Canadian Studies Program at Hebrew University (1)
- Canadian Liver Foundation
 - Fellowship Program (15)
 - Research (15)
 - Scholarship (15)
- Cancer Research Society Inc.
 - Nutrition in Relation to Cancer
- Distilled Spirits Council of US
 - Grants-in-aid for Research (1)
- Energy, Mines & Resources Canada
 - Research Agreements Program (15)
- Fitness & Amateur Sport
 - Research Contributions Program
- Hannah Institute
 - Grants-in-aid (1)
- Health & Welfare Canada: Welfare
 - National Welfare Grant (1)
 - National Welfare: Research Group Development (1)
 - National Welfare: Senior Research Fellowship (1)
- Hereditary Disease Foundation
 - Research (1)
- Lindbergh, Charles A. Fund
 - Lindbergh Grant (16)
- MRC: Awards Program
 - MRC Research Associateships (1)
 - MRC Scientist Award (1)
- MRC: Grants Program
 - Grants-in-aid: RENEWALS (1)
 - Maintenance Grants (1) Renewal
 - Major Equipment (1)
 - Program Grants (1)
- Muscular Dystrophy Assn. (U.S.)
 - Postdoctoral Fellowships (30)
 - Research (30)
- Muscular Dystrophy Assn. of Canada
 - Research (30)
- National Cancer Institute of Canada
 - Cancer Research Unit or equiv. (15)
 - Equipment (15)
 - Research (15)
- National Res. Council of Canada
 - Research Associateships in NRC Labs (30)
- National Research Council (Intl. Relations)
 - France-Canada Exchange (Natural/Applied Sc.) (15)
 - France-Canada Exchange (Social Sc. & Human.) (15)
- North Atlantic Treaty Organization
 - International Collaborative Research (30)
- NSERC: Fellowships Division
 - University Research Fellowship (1) (UBC deadline Oct. 11)
- NSERC: Individual Grants
 - Conference Grants (1)
 - Equipment (1)
 - Grants for Scientific Publications (1)
 - Individual Research (1)
 - Infrastructure Grants (1)

- Intermediate and High Energy Physics (1)
- Northern Supplements (1)
- Team Research (1)
- Travel Grants (1)
- NSERC: Major Equipment
 - Major Equipment (1)
- Science Council of B.C.
 - Research (1)
- Secretary of State: Canadian Studies
 - Canadian Studies: Learning Materials (1)
- Spencer, Chris Foundation
 - Foundation on Grants (30)
- SSHRC: Intl. Relations Division
 - Travel to Intl. Scholarly Conferences (1)
- SSHRC: Strategic Grants Division
 - Management Science: Doctoral Completion (15)
- Transport Canada
 - Negotiated Research Contributions (28)
- U.S. Dept. of Health, Educ. & Welfare
 - NIH Grants to Foreign Institutions (1)
- University of British Columbia
 - UBC: Killiam Senior Fellowship (1)
- Von Humboldt Fdn. (W. Germany)
 - Research Fellowship (1)
- Weizmann Inst. of Science
 - Charles H. Revson Career Development Chairs (30)
- World University Services
 - Awards to Foreign Nationals: Fellowships (1)

NOTICE OF SOCIAL SCIENCES & HUMANITIES RESEARCH COUNCIL PRESENTATION

Dr. Erika Bruce, Director General, Program Branch of the Social Sciences and Humanities Research Council of Canada, will address an open meeting of interested faculty as follows: Date: Tuesday, 29 Oct. 1985; Time: 2:30-4 p.m.; Place: Room A102, Buchanan Building. This will be an opportunity to learn more about changes to SSHRC programs arising out of the Crocker Report, and to discuss those changes already announced (cancellation of May 1986 Research Grants Deadline and of Leave Fellowship Program). Everyone welcome.

Botanical Garden sponsors lecture

The Friends of the UBC Botanical Garden are sponsoring a special public lecture on Wednesday, Oct. 23 entitled "The Great Plant Hunters."

The public lecture takes place at 8 p.m. in the UBC Faculty Club. Tickets are \$5 and are available in advance from the UBC Botanical Garden Office, 6501 Northwest Marine Drive (228-3928), or at the door on the evening of the lecture.

The Friends of the Garden are also sponsoring a bulb sale on Saturday, Oct. 19 and Sunday, Oct. 20 in the Garden Shop located at the entrance to the Main Garden (6250 Stadium Rd.). The sale takes place from 11 a.m. to 4 p.m. both days.

Enrolment figures down slightly in 1985/86

UBC's 1985-86 daytime winter session enrolment stood at 25,077 students on Sept. 30, exactly 100 students fewer than at the same date in 1984.

The enrolment decline is accounted for chiefly at the graduate level, where 3,617 students are registered for 1985-86, a decline of 72 from last year. Undergraduate enrolment in the current year totals 21,460 students compared to last year's total of 21,488.

Officials in the Registrar's Office emphasized that the Sept. 30 totals are preliminary figures that may change before Nov. 1, when Canadian universities issue official enrolment statistics.

UBC's Faculty of Arts shows the most significant enrolment increase in 1985-86. The faculty has this year registered 7,100 students, 370 more than last year.

Some of this increase, it's believed, reflects the suspension of enrolment in first-year Education, pending the introduction of a new teacher-training curriculum in September, 1986. Students who planned to enter first-year Education at UBC in September, 1985, were advised to enrol in other UBC faculties pending approval and introduction of the new teacher-training program.

Most of the enrolment increase in Arts is accounted for in programs leading to the degree of Bachelor of Arts. Registration this year total 6,225, an increase of 317 over last year's total of 5,908.

The number of students entering first-year academic programs at UBC has increased slightly from last year's total of 6,293 to 6,368 this year.

Enrolment in some faculties, however, continues to decline in the face of difficult economic conditions.

First-year enrolment in the Faculty of Forestry, for instance, this year declined to 36 students from last year's 58, reflecting the worst business conditions in years for the forest industry, according to forestry dean Dr. Robert Kennedy.

He said the total of first-year registrations looks a little better if the 12 forestry students enrolled at two Interior colleges are added to those registered at UBC. He said enrolment in forestry has been declining since 1979 when first-year registrations reached a high of 145.

"Students who enrol in forestry right now are like investors who buy stocks when the market's depressed," he said. "Those students will be sitting pretty in four years' time when they graduate because there will be a serious shortage of foresters resulting from the fact that under a recent federal-provincial agreement some \$300 million will be pumped into B.C. alone over

the next five years to improve the industry."

Enrolment in UBC's other major faculty—Science—remains almost identical to last year at 3,941 students, an increase of only five students.



Fourth-year Physical Education student Diana Rakecki tries out a new stationary exerciser called the Pioneer Wheeler while associate physical education professor Dr. Kenneth Coutts looks on. The wheeler, a gift from the Telephone Pioneers, a service organization in B.C. Tel., is useful in rehabilitation programs and for research because it's capable of simulating drag encountered under actual road conditions as well as various degrees of incline for uphill and downhill training situations. Diana, a world-class wheelchair athlete, won gold and silver medals at the 1984 World Wheelchair Games.

Man-in-Motion

Update: Oct. 7, 1985. Rick Hansen has travelled 8,200 miles on his round-the-world-wheelchair tour to raise funds for spinal cord research and rehabilitation, and is currently in Geneva, Switzerland. Contributions in B.C. so far total \$439,000. 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.

NUW

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THURSDAY, OCT. 24

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 PARADE begins 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 p.m.

UBC BAND FESTIVAL Concert No. 2 by the 15th Field Artillery 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.

SATURDAY, OCT. 26

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.

Funds for UBC research reach an all-time high

Funds for research at UBC stood at an all-time high of \$59,557,645 in the 1984-85 fiscal year.

The total represents a 21 per cent increase over the previous fiscal year, when the University received just over \$49 million for research.

Four UBC faculties were singled out by Dr. Peter Larkin, associate vice-president for research, as having made "significant gains" in research funding in the last fiscal year.

Statistics compiled by Dr. R.D. Spratley, director of UBC's Office of Research Services, show that the

biggest single gain was made by the Faculty of Applied Science, where grants increased by 36 per cent to \$7,624,101 from the previous year's total of \$4,850,820.

The three other faculties that registered significant gains were Arts, up 24 per cent to \$3,483,001; Medicine, up 23 per cent to almost \$20.7 million; and Science, up 15 per cent to a total of just over \$16.5 million.

Medicine and Science rank first and second out of UBC's 12 faculties in terms of research fund totals. Applied Science is third, followed by Arts,

Agricultural Sciences, Graduate Studies, Pharmaceutical Sciences, Forestry and Education, each of which received more than \$1 million. Other UBC faculties received amounts ranging from just over \$79,000 up to \$775,377.

Another highlight of the 1984-85 research picture is the near doubling of the value of industrial grants and contracts under which UBC undertakes research for the private sector.

The number of such contracts increased to 177 in 1984-85 compared to 107 in the previous year. The value of these awards in 1984-85 was \$3,386,000 compared with \$1,707,000 the previous year.

Dr. Larkin said a "fair proportion" of the increase in research funding was the result of the activities of UBC's new University-Industry Liaison Officer, Dr. James Murray.

"We have put special emphasis on building university-industry collaborative research since July 1, 1984, when Dr. Murray's appointment became effective," Dr. Larkin said. "He and Dr. Spratley together have done a superb job of improving our performance in this area."

Dr. Larkin said the University had also been active in obtaining grants from special programs operated by the Natural Science and Engineering Research Council, the national body that funds scientific research.

Eight UBC faculty members received 1984-85 funding of almost \$1 million under a new NSERC University-Industry Interface program for work on problems associated with the smelting of lead concentrates, grading of lumber and coal gasification.

Dr. Larkin said UBC now leads Canadian universities in terms of grants from the National Research Council for funding research in biotechnology. The 1984-85 total for research in this area almost tripled to more than \$430,000 from \$115,570 the previous year.

He added that UBC had set a goal of making research income at UBC equal to one half the provincial government operating grant. "We could reach that point by 1990," he said, "but I feel sure we'll be there by 1995."

Research centre opens

More than five years of planning and cooperation between the Shaughnessy and Children's Hospitals and the University of B.C. has resulted in a major medical research facility.

The Medical Research Centre on the Shaughnessy Hospital site on Oak Street, built at a cost of \$11 million, was officially opened Sept. 30. Participating in the ceremony were Lieutenant-Governor Robert G. Rogers; B.C. Health Minister Jim Nielsen; Universities, Science and Communications Minister Dr. Patrick McGeer; Dr. Pierre Bois, president of the Medical Research Council of Canada; Dr. Aser Rothstein, director of the Hospital for Sick Children Research Institute of Toronto; and others who led coordination and fund-raising for the new centre.

The centre is owned and operated by the University and incorporates both the Children's Variety Research Centre and the Shaughnessy Hospital Research Centre.

Each of the three partners contributed funds proportionate to the space they occupy. Money from the two hospitals

came from the community through public contributions. Heavily involved in raising funds for the project was the Variety Club, Tent No. 47.

Dr. William Webber, dean of UBC's Faculty of Medicine, who was master of ceremonies at the opening, said the centre will have a major impact.

"First of all, it will allow us to do better research," Dr. Webber said, "and will enable us to attract the highest quality of researchers and physicians to the Shaughnessy, Children's and Grace Hospitals on the Shaughnessy site, the largest health care complex in the province."

"Second, through interaction between clinicians and scientists, the centre will also have a direct affect on the quality of care provided for patients."

Research into arthritis, arteriosclerosis or hardening of the arteries, cystic fibrosis, diabetes, genetics, heart disease, immunology, infectious diseases, viruses, liver and biliary tract disease, psychiatric disorders, metabolic disease and spinal cord research will be conducted at the centre.

THE UNIVERSITY OF BRITISH COLUMBIA VICE-PRESIDENT, ACADEMIC

Applications and nominations are invited for the position of Vice-President, Academic, at The University of British Columbia. The Vice-President, Academic, reports to the President and is responsible for decisions involving planning, budgeting and staffing in support of academic excellence. Desirable qualities include demonstrated excellence in scholarship and in university administration.

Please address applications or nominations before November 15, 1985 to:

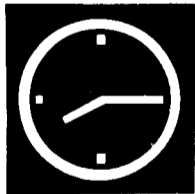
Dr. David W. Strangway
President-Designate
The University of British Columbia
6328 Memorial Road
Vancouver, B.C. V6T 2B3

UBC CALENDAR

Calendar Deadlines

Notices for the weeks of Oct. 27 and Nov. 3 must be submitted no later than 5 p.m. on Oct. 17 to the Community Relations Office, Room 207, Old Administration Building, 6328 Memorial Road. Notices must be submitted on proper calendar forms. For more information, call 228-3131.

THE VANCOUVER INSTITUTE.



Saturday, Oct. 12

Ecosystem Design: Local Surprise and Global Change. Prof. C.S. Holling, Animal Resource Ecology, UBC.

Saturday, Oct. 19

Relevance and Our Universities: Responsibility or Red Herring? Dr. William Saywell, president, Simon Fraser University. A National Universities Week event.

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

MONDAY, OCT. 14

Thanksgiving Day. University closed.

Asian Studies/Religious Studies Lecture.

Jainism and the Peace Movement. Acharya Sushil Kumar, Siddhachalam, New Jersey. Asian Centre Auditorium, 7 p.m.

TUESDAY, OCT. 15

Botany Seminar.

Knapweed: Its Control and Impact on the Rangeland of B.C. Alister D. Muir, Biological Research Consultant, Kamloops, B.C. Room 3219, Biological Science Building, 12:30 p.m.

Hewitt Bostock Memorial Lecture.

Folklore and Politics in the Soviet Union. Prof. F.J. Oinas, Slavic Languages and Literatures, Indian University, Bloomington. Room A202, Buchanan Building, 12:30 p.m.

Chemistry Seminar—Xerox Lecture.

Inorganic-Organic Macromolecules and Their Relationship to Biomedical Research and Solid State Phenomena. Prof. Harry R. Allcock, Chemistry, Pennsylvania State University, University Park, Pennsylvania. Room 250, Chemistry Building (south wing). 1 p.m.

Centre for Continuing Education Lecture.

International Scene—Will Gorbachev Make a Difference?: The Soviet World Today. Dr. Peter Petro, Slavonic Studies, UBC. \$7. Robson Square Media Centre, 800 Robson St. 1:30 p.m.

Electrical Engineering Seminar.

Design of a High Speed Error-Correcting Code. Dr. V.K. Bhargava, Professor, Dept. of Electrical Engineering, University of Victoria. Room 402, Electrical Engineering Building. 1:30 p.m.

Statistic Workshop.

Methods for the Systematic Evaluation of Statistical Graphs. Lise Manchester, Statistics, UBC. Room MA225, Mathematics Building. 3:30 p.m.

WEDNESDAY, OCT. 16 Pharmacology & Therapeutics Seminar.

Calcium Antagonists and Ischaemia-Induced Arrhythmias. Mr. M. Curtis, Pharmacology & Therapeutics, UBC. Room 317, Basic Medical Sciences Building, Block C, 12 noon.

Noon-Hour Concert.

Camille Churchfield, flute; Robert Silverman, piano; Janice Lindsdskog, harp play music of Schubert and Hovhaness. Recital Hall, Music Building. 12:30 p.m.

Forestry Seminar Series.

Impressions of Forestry in Quebec. Dr. D.P. Lavender, Forestry, UBC. MacMillan 166, 12:30 p.m.

Geography Colloquium.

Some Perspectives on the Promotion of Pacific Rim Trade and Investment: A Vancouver Municipal Initiative. Thomas Hutton, Office of Economic Development, City of Vancouver. Room 201, Geography Building. 3:30 p.m.

Science, Technology and Society Studies Roundtable.

Ptolemy's Geography: The Text, The Context and The Tradition. Prof. J.L. Berggren, Mathematics, Simon Fraser University. Room D352, Buchanan Building. 3:30 p.m.

Geophysics and Geology Seminar.

Lithoprobe-Results from Phase I on Vancouver Island; Current Status of the Project. Dr. Ron Clowes, Geophysics and Astronomy, UBC. Room 260, Geophysics & Astronomy Building. 4 p.m.

Animal Resource Ecology Seminar.

Insect Quality, Food Plant Quality and Fluctuations of Insect Population. Dr. Judy Myers, IARE, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

Canadian Association for Information Science.

Searching Vocabularies for On-Line Searching. Prof. A. Piternick, Library, Archival and Information Studies, UBC. Conference Room, B.C. Research, 3650 Westbrook Mall. 7:30 p.m.

Centre for Continuing Education.

International Scene—Will Gorbachev Make a Difference?: The Soviet World Today. Dr. Peter Petro, Slavonic Studies, UBC. \$7. Room 305, Carson Graham School, 2145 Jones Ave., North Vancouver. 8 p.m.

THURSDAY, OCT. 17 UBC Child Study Centre Open House for Faculty and Students.

Programs for children aged 2, 3 and 4 will be in operation from 9—11:15 a.m. and 1—3:15 p.m. The Child Study Centre, the Faculty of Education's research and demonstration preschool, is located on West 24th Avenue between Blenheim and Collingwood Streets (Kitchener School Annex). For further information, phone 736-5571. 9 a.m.—4 p.m.

Plant Science Seminar.

CO2 Enrichment, Air Pollution and Greenhouse Prototype with Control of Light Quality. Prof. Leiv Mortensen, Floriculture and Greenhouse Crops, Agricultural University of Norway. Room 342, MacMillan Building. 12:30 p.m.

Religious Studies Lecture.

Where is Christianity Going? Hans Kung, Director, Institute for Ecumenical Research, University of Tubingen (Germany). Room A106, Buchanan Building. 12:30 p.m.

UBC Symphony Orchestra Concert.

Timothy Vernon, conductor, with Sara Laimon, piano soloist. Music of Beethoven, Mozart and Dvorak. Old Auditorium. 12:30 p.m.

Economics Theory Workshop.

Why are Capitalists the Bosses? Profs. Mukesh Eswaran and Ashok Korwal, Economics, UBC. Room 351, Brock Hall. 4 p.m.

Physics Colloquium.

The Quantum Hall Effect. Dr. Steve Girvin, National Bureau of Standards, Gaithersburg, Maryland. Hennings 201. 4 p.m.

Centre for Continuing Education Lecture.

International Scene—Will Gorbachev Make a Difference?: The Soviet World Today. Dr. Peter Petro, Slavonic Studies, UBC. \$7. Robson Square Media Centre, 800 Robson St. 8 p.m.

FRIDAY, OCT. 18 Medical Genetics Seminar.

Chorionic Villus Sampling Update: It's a Very, Very Little Thing. Dr. Barbara McGillivray and Dr. Doug Wilson, Clinical Genetics Unit. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak Street. 1 p.m.

Linguistics Colloquium.

What to do with a Dead Elk: Structure in Discourse. Dale Kinkade, Linguistics, UBC. Buchanan Building, D224. 3:30 p.m.

Oceanography Seminar.

Hydrothermal Metal Deposits of the Tethys Ocean. Dr. A.H.F. Robertson, Grant Institute of Geology, University of Edinburgh. Room 1465, West Wing, Biological Sciences Building. 3:30 p.m.

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UBC CALENDAR

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Football.

UBC Thunderbirds meet the University of Manitoba. Thunderbird Stadium. 7:30 p.m.

UBC Symphony Orchestra.

Repeat program of Oct. 17. Old Auditorium. 8 p.m.

SATURDAY, OCT. 19

Centre for Continuing Education Seminar.

Children and Crisis. Dr. John Allan, Counselling Psychology, UBC. \$16. For registration information, call 222-5261. Seminar Room 102, Counselling Psychology Building, 5780 Toronto Rd., UBC. 9:30 a.m.—12:30 p.m.

Centre for Continuing Education Seminar.

Exercise and Fitness for Mid-Life and Later. Dr. Stanley Brown, Physical Education & Recreation, UBC. \$48. Enrolment limited. For further information, call 222-5270. Theatre, Psychiatric Unit, Health Sciences Centre Hospital. 9:30 — 4 p.m.

SUNDAY, OCT. 20

Lutheran Campus Ministry Seminar.

The Churches and South Africa. David Messenbring, associate director of the Southern Africa Advocacy Program of Lutheran World Ministries, New York. For further information, call 224-1614. Lutheran Campus Centre, 5885 University Blvd. 7:30 p.m.

MONDAY, OCT. 21

Lutheran Campus Ministry Public Meeting.

The Churches and South Africa. David Messenbring, associate director of the Southern Africa Advocacy Program of Lutheran World Ministries, New York. For further information, call 224-1614. Room 207/209 SUB. 9:30 a.m.—11:30 a.m.

Lecture.

Byzantine Castles of Asia Minor. Prof. Clive Foss, History, University of California, Berkeley. Lasserre 102, 12:30 p.m.

Leon and Thea Koerner Memorial Lecture.

Noh Hamlet: Adapting Shakespeare for Japanese Theatre. Prof. Kuniyoshi Munakata, Theatre Arts, University of Nebraska. Room A106, Buchanan Building. 12:30 p.m.

Mechanical Engineering Seminar.

Numerical Studies of Ship Stability in Beam Seas. Mr. John Fitz-Clarke, Mechanical Engineering, UBC. Room 1202, CEME Building. 3:30 p.m.

Applied Mathematics Seminar.

It's Not Always Easy to Find the Smallest Eigenvalue. Dr. Frederic Y.M. Wan, Applied Mathematics, University of Washington. Room 229, Mathematics Building. 3:45 p.m.

Guest Lecture.

X-Chromosome Inactivation—A Personal View. Dr. Mary Lyon, Genetics, MRC Radiobiology Unit, Oxfordshire, England. For further information, call Medical Genetics, 228-5311. Lecture Hall 3, Woodward Instructional Resources Centre. 4 p.m.

Biochemistry and Biomedical Discussion Group Seminar.

Biogenesis of the Proton-translocating ATPase of *E. coli*. Dr. R.D. Simoni, Biological Sciences, Stanford University. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Physiology Seminar.

Intra-Testicular Factors Controlling Testosterone Production. Dr. David Pomerantz, Physiology, University of Western Ontario. Room 2605, D.H. Copp Building. 4:30 p.m.

Archaeological Institute Lecture.

Ephesus: The Decline of a Classical City. Prof. Clive Foss, Classics, University of California at Berkeley. Museum of Anthropology. 8 p.m.

TUESDAY, OCT. 22

Library, Archival and Information Studies Colloquium.

State-of-the-Art: Children's and Young Adult Services in Canada. Adele Fasick, Library Science, University of Toronto. Room 835, North Wing, Main Library. 11:30 a.m.

Botany Seminar.

Importance of Iron in Nitrogen Fixation. John G. Reuter, Biology, Portland State University. Room 3219, Biological Science Building. 12:30 p.m.

Chemistry Seminar.

The Continuing Renaissance of Mass Spectrometry and the Structure Elucidation of Natural Nucleosides. Prof. James A. McCloskey, Medicinal Chemistry, University of Utah. Room 250, Chemistry Building (south wing). 1 p.m.

Electrical Engineering Seminar.

Graph Theoretic Applications to Modeling of 3-D Motion for Robotics. Dr. H.K. Kesavan, Systems Engineering, University of Waterloo. Room 402, Electrical Engineering. 1:30 p.m.

Centre for Continuing Education Lecture.

International Scene—The Remaining Dominoes of Mainland Southeast Asia. Chao-Tsang Yawngwe. \$7. Robson Square Media Centre, 800 Robson St. 1:30 p.m.

Leon and Thea Koerner Memorial Seminar/Discussion.

Instrument, Son and Dance in Noh Hamlet. Prof. Kuniyoshi Munakata, Theatre Arts, University of Nebraska. Music Studio, Asian Centre. 1:30 p.m.

Lipid and Lipoprotein Discussion Group Seminar.

Intracellular Transport of Cholesterol from the Endoplasmic Reticulum to the Plasma Membrane. Dr. Robert D. Simoni, Biological Sciences, Stanford University. Research Centre, Shaughnessy Hospital. 2 p.m.

Joint Statistics Workshop Environmental Seminar.

Health Risks from Acid Rain. Dr. D.R. Krewski, Health and Welfare Canada. Room MA225, Mathematics Building. 3:30 p.m.

Oceanography Seminar.

Von Karman Vortex Streets in the Coastal Ocean: Physics and Implications for Stimulation of Phytoplankton Production. Prof. Malcolm Bowman, State University of New York. Room 1465, West Wing, Biological Sciences Building. 3:30 p.m.

Department of Economics Seminar.

Utility and Health Care: Theory and Evidence. G. Torrance, McMaster University. Room 351, Brock Hall. 4 p.m.

Zoology Seminar.

Fish Hepatocytes: What Are They Good for Anyway? Dr. T. Mommensen, Zoology, UBC. Room 2000, Biological Science Building. 4:30 p.m.

WEDNESDAY, OCT. 23 Pharmacology and Therapeutics Seminar.

Chloride Conductance in Muscle. Dr. Peter Vaughan, Physiology, UBC. Room 317, Basic Medical Sciences Building, Block C. 12 noon.

Department of Obstetrics, Grace Hospital, Research Seminar.

Monoclonal Antibodies to Mouse Sperm. James Chang, Obstetrics & Gynecology, UBC. Room 202, Research Centre, 950 W. 28th Ave. 12 noon.

Forestry Seminar Series.

Swedish Silviculture 1985. Drs. Weetman and van der Kamp, Forestry, UBC. MacMillan 166. 12:30 p.m.

Noon-Hour Concert.

Vancouver Wind Trio. Recital Hall, Music Building. 12:30 p.m.

Geography Colloquium.

A Post-Glacial Chronology for Large Earthflows in South-central B.C. Penny Jones, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Centre for Continuing Education Lecture.

International Scene—Israel's Options. Michael J. Cohen, Bar-Ilan University, Israel. \$7. Room 305, Carson Graham School, 2145 Jones Ave., North Vancouver. 8 p.m.

THURSDAY, OCT. 24

Poetry Reading.

Reading by poet Erin Moure, author of *Domestic Fuel*, *Wanted Alive*, *Empire* and *York Street*. Sponsored by Canada Council and House of Anansi Press. Penthouse, Buchanan Building. 12:30 p.m.

Occupational Health & Safety Seminar.

Role of the Workers' Compensation Board in the 1980s. Patrick Byrne, Occupational Hygiene Officer, Workers' Compensation Board. Mr. Byrne is the WCB Officer responsible for the campus and will be prepared to answer any questions on health and safety issues related to our work environment. Lecture Hall 3, Woodward Instructional Resources Centre. 12:30 p.m.

United Nations Colloquium.

The UN and UBC Centre for Human Settlements collaborate in a colloquium to mark the 40th anniversary of the establishment of the United Nations. Introductory remarks by President *pro tem*. Robert Smith; principal speaker is Prof. John Conway, History, UBC, and former president of the Vancouver UN Association. Other speakers include Thomas J. Ronneng, consul general for Norway and Dr. Peter Oberlander, director of the UBC Centre for Human Settlements. Room 424, Library Processing Centre, 2206 East Mall. 3:30 p.m.

Physics Colloquium.

Super Strings. Dr. Stephen Shenker, James Franck Institute, University of Chicago. Hennings 201. 4 p.m.

Economics Theory Workshop.

Risk-bearing Capacity and Entrepreneurship as Privileges of Wealth. Profs. Mukesh Eswaran and Ashok Kotwal, UBC. Room 351, Brock Hall. 4 p.m.

Centre for Continuing Education Forum.

The Aquaculture Lease Concept: From Hunting to Farming in the Sea. Chaired by Dr. Norman Wilimousky, Animal Resource Ecology, UBC. Free admission. Call 222-5238 for further information. Lecture Hall 5, Woodward Instructional Resources Centre. 7:30 p.m.

Centre for Continuing Education Lecture.

International Scene—Israel's Options. Michael J. Cohen, Bar-Ilan University, Israel. \$7. Robson Square Media Centre, 800 Robson St. 8 p.m.

FRIDAY, OCT. 25

UBC Contemporary Players.

Stephen Chatman and Eugene Wilson, directors, play music of Bassett, Wilder and Holst. Recital Hall, Music Building. 12:30 p.m.

Poetry Reading.

Reading by Canadian poet Daphne Marlatt, author of *Steveston*, *Vancouver Poems*, *How Hug a Stone* and the recent *Touch to My Tongue*. Sponsored by the Canada Council and the UBC English department. Buchanan Penthouse. 12:30 p.m.

Medical Genetics Seminar.

A.S.H.G. Reports. Medical Genetics faculty. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1 p.m.

Football.

UBC Thunderbirds meet the University of Calgary. Thunderbird Stadium. 5 p.m.

Ice Hockey.

UBC vs. the University of Calgary. Thunderbird Winter Sports Centre. 7:30 p.m.

Notices . . .

Office for Women Students Workshops

Assertiveness for Women—Basic. Free workshops on Oct. 22, 29 and Nov. 5. Designed to teach women to express themselves directly and overcome obstacles to assertive behaviour. Preregister in Room 203, Brock Hall. Workshops in Brock 106A. 12:30—2:20 p.m.

Assertiveness for Women in Social Situations. Free workshops on Oct. 15, 22 and 29. Focus on learning how to make requests, set limits and take risks. Preregister in Brock 203. Workshops in Brock 106C. 12:30—2:20 p.m.

Essay Skills Workshops. Free workshops on Oct. 17, 24 and 31. Room B212, Buchanan Building. 12:30 p.m.

Enquiries regarding any of the above workshops: 228-2415

Volunteers Wanted

Mothers of children between the ages of 3 and 8 are required for a research project with the Department of Psychology. The project involves evaluating a program that teaches parenting skills. Approximately 60 minutes are required and \$5 will be paid for participation. For additional information, contact Susan Cross Calvert at 321-4346.

Dorothy Somerset Studio

The studio presents *Beyond Mozambique*, by George F. Walker, under the direction of Robert Garfat, as partial fulfillment of the M.F.A. Degree in directing, from Oct. 15 to Oct. 19. Student admission is \$4 with a valid student card. Adult admission is \$5. Curtain time is 8 p.m. For information and reservations, phone 228-2678 or drop by Room 207 in the Frederic Wood Theatre.

Mellon Fellowships

Nominations are now being accepted for Mellon Fellowships, which are awarded to outstanding students who plan to enter graduate studies in the fall of 1986. Students must be nominated by a faculty sponsor and must plan to study fields within the traditional humanities (fields not included are creative and performing arts, social sciences and professional fields such as education, law, library science and social work). Mellon Fellowships provide \$8,500 plus payment of tuition and standard fees to graduate school. Nomination deadline is Nov. 4.

Gordon Shrum Scholarship

One or more scholarships to a total value of \$1,300 have been made available by family and friends in memory of Prof. Gordon M. Shrum. The first award will be offered in 1986/87 and will be made to a student entering the final year of study in the honours program of the Department of Physics or Engineering Physics. For more information, call 228-5111.

UBC Research Forest

The third program in a series of free educational events takes place at the UBC Research Forest near Haney in the Fraser Valley on Saturday (Oct. 12). Dr. Roy Strang will present the program, entitled *Forestry, Ecology and the Environment*. The event combines an indoor lecture with a field trip into the surrounding forest, beginning at 1 p.m. rain or shine. Limited registration on a first-come, first-served basis. Call 463-8148 to register and get directions to the forest. Forest is open to the public from 7 a.m. to dusk daily and provides a self-guided tour over hiking trails. Dogs are not allowed in the forest.

UBC Computer Show

The latest equipment available from UBC suppliers will be on display from 10 a.m. to 4 p.m. Oct. 16 and 17 in the Ballroom and Party Room of the Student Union Building. For further information, call 228-2348. Sponsored by the AMS and UBC purchasing department.

60th Anniversary

The 60th anniversary of the opening of UBC's Chemistry Building will be marked at a ceremony in the building on Oct. 26. Grads who studied in what was formerly the Science Building are invited to a reunion from 2 to 5 p.m. Dinner (\$25 each) to follow. Information brochure available from the Alumni Association, 228-3313.

Mahlzeit

German conversation club meets every Monday at 12:30 p.m. in Room B224, Buchanan Building.

Toastmasters

Walter Gage Toastmasters meet every Thursday at 7:30 p.m. in Room 260 of the MacMillan Building. For more information, call Bill Brendan, 325-1414, or Bruce Kozak, 681-3759.

AGRICURL

Curling begins Tuesday, Oct. 15 at 5 p.m. at the Thunderbird Winter Sports Centre. New curlers welcome. Fee is \$65 for the season. For more information, call Jim Sheldford at 228-6578, Paul Willing at 228-3280 or Alex Finlayson at 228-4707.

FIRST CLASS MAIL

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