UBC Archives Serial

UBC Reports

Volume 33 Number 5, March 5, 1987

Open House—it's here Exploration '87 begins

It's finally here. After months and months of organization, planning and preparation, our Open House - Exploration '87 - begins tomorrow.

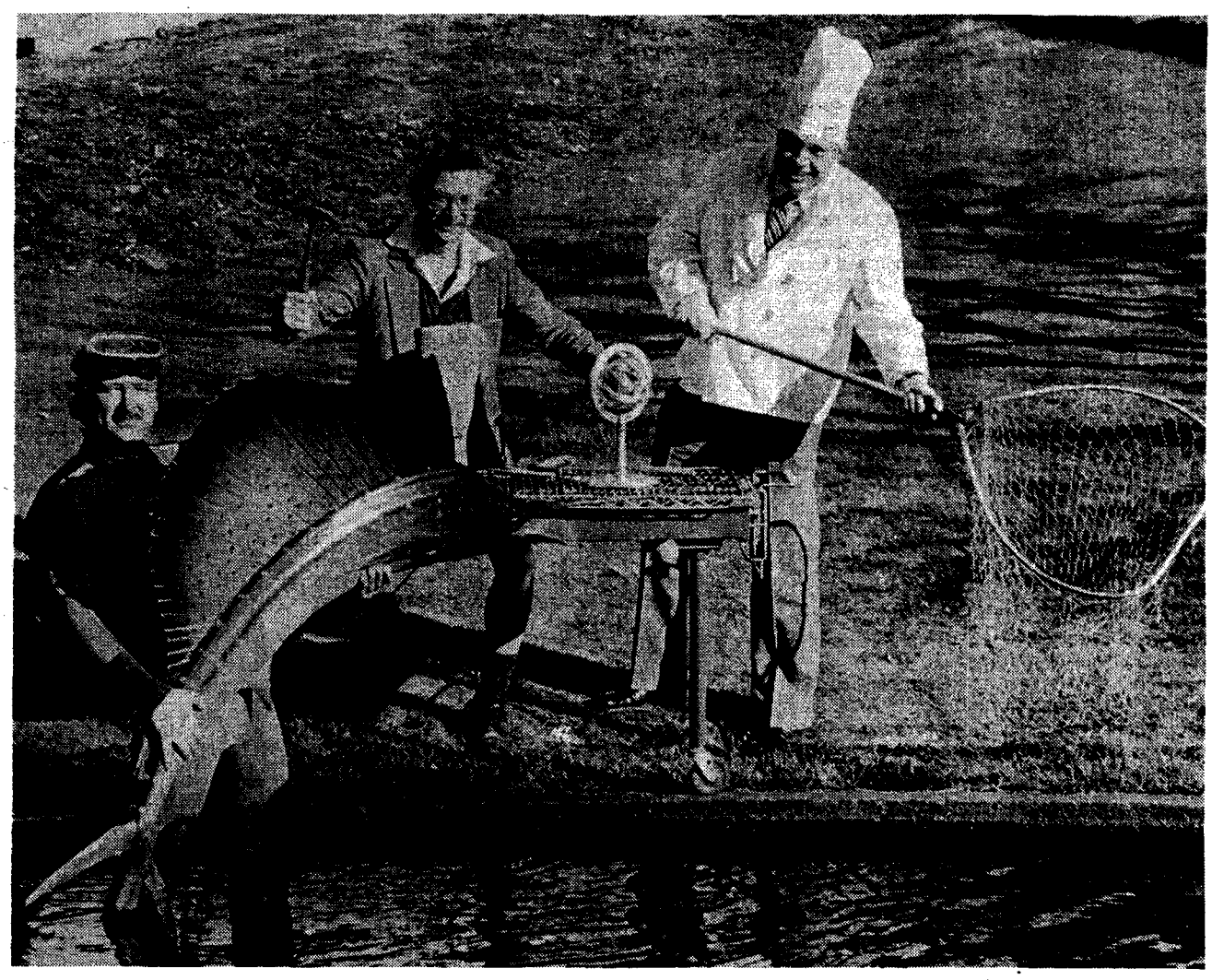
If you haven't been involved in the preparations, you are likely to be in for a big surprise - the word is out that we're hosting our biggest and best Open House ever, and people from all over the province are planning to attend. Friday will be "schools day", as teachers from as far away as Stewart B.C. bring their top students to visit the university they hope to attend in the future. Please go out of your way to help these groups feel at home - the impression they gain of us this weekend will be an important part of their decision-making in the years ahead.

By the time this issue of UBC Reports is out, University Boulevard will be decorated with bright yellow and blue banners, and four striped canvas tents will be in place in strategic locations around campus to act as information centres. The information tents will have copies of the events listing for Open House, and will be staffed by enthusiastic student volunteers, ready to help visitors to enjoy their day.

Traffic and security will be in full operation, with staff located around the campus, and the UBC RCMP Detachment will be there to handle special emergencies. The main information tent, located by the Bookstore, will operate a "lost and found" service, physical plant will be keeping the campus clean with extra garbage pick-up, and Custodial Services will be providing extra services in buildings and washrooms.

Last, but by no means least, the Community Relations office will operate as "Control Central" throughout the weekend, handling phone inquiries, distributing printed materials, providing a service to media, and acting as troubleshooters around the campus.

So come and join in the fun, and participate in this very special UBC event, which offers the largest, most exciting variety of events and activities since Expo '86 closed its doors on October 13.



UBC President Dr. David Strangway prepares to net a big one as Bob Carveth, curator of Zoology's fish museum, carries it out of the water and Physics professor Doug Beder wields a geology pick in readiness. The Zoology department can't promise you barbecued sailfish during UBC's Open House, but they will be providing barbecued salmon and beer. Just head for the Biological Sciences building and follow your nose.

Gala concert tonight

UBC's Open House kicks off tonight at 8:00 p.m. with the gala Celebrity Alumni Concert and Auction. Cameo performances by such well-known graduates as mezzo-soprano Judith Forst, astronaut Bjarni Tryggvason and poet Earle Birney will be featured and guests will be able to bid on one-of-a-kind items and experiences. There are still some tickets available at the door for balcony seats, $10 each, $5 for students and seniors. Come and join the fun!

Hundreds of free events are scheduled for the three days of Open House--Friday, Saturday and Sunday--detailed listings are available from any of four information kiosks located on campus.

Musical performances

Music lovers will be able to enjoy a wide variety of performances. The Museum of Anthropology is presenting a series of short concerts on the music and rhythms of Africa, China and Europe, and the Asian Studies department, in collaboration with the School of Music, is featuring the Peking Opera, a richly costumed theatre production with music. Visitors to the School of Music can learn to play a musical instrument in just 15 minutes, and listen to various groups in recital, including the UBC Chamber Singers, the UBC Symphony Orchestra, UBC Choral Union and UBC Percussion Ensemble, as well as various solo artists.

Gourmet fare

All regular food outlets will be open, and they have many great surprises to offer. Food Services has pulled all stops to put on a festive menu in keeping with the occasion. In addition, speciality foods can be found at other locations: NITEP will be offering traditional Native Indian foods, and the Faculty of Science is putting on a salmon barbecue and beer garden. Athletic and Sport Services will be offering pancake breakfasts and Agricultural Science students will be running a hamburger barbeque. You can sample a selection of herbal teas from the Botany department's Herbal Tea Bar, and try sushi or Chinese dim sum at the Asian Centre.

Events for children

Many attractions are provided especially for children, including hot air balloon rides, animal displays and circus entertainment provided by some of Canada's youngest talented performers--the CIRKIDS. Children (and adults) can pan for gold outside the Geology Building or take in an Indonesian puppet show at the Asian Centre. Join a behind-the-scenes tour of the Theatre department to find out about special effects and watch actors rehearse. Or find out how a court of law would handle a classic case of theft - Regina vs. Goldilocks - to be staged by elementary school students in front of a real judge. In Health Sciences, a babysitting service will be provided free of charge.

Gardeners give advice

Gardeners will be able to pick up gardening tips from horticultural experts on location at the Botanical Garden, or have soil tested by experts in Agricultural Sciences. The Faculty of Forestry is giving away a free tree seedling to each visitor. UBC's many gardens are open free of charge, and geography students are offering specialized tours of the campus.

Attractions unlimited

Open House offers the ideal opportunity to take in a special lecture in your area of interest. Almost every department is offering them, on every subject from poetry to forestry. Take in a video presentation on real estate valuation and investment in the Commerce Building, or see how industrial robots work in Canadian industry. The Faculty of Arts is sponsoring a forum featuring poet Earle Birney, journalist Allan Fotheringham, and writer/broadcaster David Suzuki. Chaired by former UBC chancellor J.V. Clyne, the panel will discuss the question "Why Bother with Ancient Greece in a World of Microchips?--The Liberal Arts in the 1990's".

Forum on AIDS

Four UBC health professionals will lead a forum on AIDS--Practical Prevention Measures. Sponsored by the Health Sciences department, the forum will address the practical issues of how people contract AIDS; what is safe, what's not; and what clinical treatment is available to people who are infected. The forum takes place Saturday in IRC.

Task force reviews sports services

March 31 of this year is the date set for the President's Task Force on Athletic and Sports Services to bring down their report. The Task Force, chaired by Dr. K.D. Srivastava, Vice President, Student and Academic Services, is to review and report on:

1. The administration and management structures (in athletics).
2. The relationship between Athletics and the School of Physical Education and Recreation.
3. The interrelationship between the various athletic and sports programs, including the procedures for establishing priorities.
4. The operation and role of Athletics Council and the Men's and Women's Athletic Committees.

"Essentially, the Task Force is reassessing priorities for Athletic and Sports Services," says Dr. Srivastava. "It is not a performance review. We will be looking at the rationale for an increase in the Student Activity Fee, and assessing what provisions are being made for improvement to student athletic services and facilities."

Task Force was established in February of this year. Its members, drawn from alumni, students, staff and faculty, are

Turn to Page Two see ATHLETICS

Minister tours campus

The Minister of Advanced Education and Job Training, The Honourable Stanley Hagen, made a second visit to the university campus recently at the invitation of UBC President Dr. David Strangway. "It was an opportunity for the Minister to see more of the University and meet with a number of faculty and students to hear from them first hand some of the exciting things happening on campus," Dr. Strangway said.

Mr. Hagen was accompanied by Dr. Jim Rae, Assistant Deputy Minister of Universities and UBC Arts student, Russ Brown, chairman of B.C.'s Youth Advisory Council. The council is a group of 12 young British Columbians who act as advisors to the ministry on a range of topics relating to young people.

A tight itinery enabled the minister and his party to see several different areas of the University. President Strangway and dean of Science Robert Miller accompanied the minister's party to see a wide range of teaching and research undertakings in biotechnology, including molecular genetics, fermentation/process engineering and plant biotechnology. Dr. Miller echoed the sentiments of many faculty who met with the minister; "Mr. Hagen showed a great deal of interest in the initiatives currently underway," Dr. Miller said.

A visit to the three main libraries and the new patent service office, led by UBC Librarian Doug McInnes, provided an opportunity to show off library resources and highlight some of the current problems facing the library: increasing journal subscription rates, overcrowding and lack of space for publications.

In the Asian Studies building, Mr. Hagen was shown through the library; "We emphasized the diversity of achievements of Asian activities in the Faculty of Arts and the time taken, more than 35 years, to build up this kind of strength," said Dr. Jonathan Wisenthal, Associate Dean of Arts.

In Commerce and Business Administration, Mr. Hagen discussed the variety of international programs, degree programs and endeavours in executive (non-credit programs) with Dean Peter Lusztig and Associate Dean Stan Hamilton. A tour of the David Lam Management Research Library was followed by a brief visit to the Chemistry Physics Building where, because of the state of disrepair of the building, students have to work in crowded conditions. "The minister talked to a number of students working in the labs about their working conditions," said Dr. Lawrence Weiler, head of the Chemistry department.

A demonstration of the uses of computers in the legal profession was staged by the Faculty of Law. "We thought it was a valuable opportunity to tell the minister what the faculty was doing," said law professor, Mr. Joost Blom. A final meeting with a dozen students, including the new executive of the AMS, wound up the minister's day on campus. AMS president Rebecca Nevraumont said one of the issues the students discussed with the minister was the disbanding of the Universities Council of B.C.

Dr. Strangway also addressed this issue. "People worry that there will be more government intervention with the dissolution of the council," Dr. Strangway said. "But universities have institutions such as boards and senates--administrative bodies which work to keep the university autonomous, yet part of the community. At UBC the work of these bodies will continue as before."

B.C.'s Premier Bill Vander Zalm visited UBC earlier this month for a private meeting with Dr. Strangway. Forests and Lands Minister Jack Kempf also paid a visit to the campus recently, as did Intergovernmental Relations Minister Bruce Strachan. Health Minister Peter Dueck is scheduled to visit March 27.

Grant boosts native studies

More native Indian students are likely to receive a University education in British Columbia in the future, as a result of a recent $300,000 grant from the Donner Canadian Foundation for the University of British Columbia's First Nations House of Learning.

The grant, to be given in three annual installments of $150,000, $100,000 and $50,000 respectively, will be used to set up a centre for proposed activities at UBC for native Indian people in British Columbia. The second and third installment are to be matched from other sources, resulting in a total of $450,000 for the project over three years.

"Eventually, we would like to have our own facility, perhaps a longhouse on the banks of Point Grey near the Museum of Anthropology," said native Indian education director Verna Kirkness. "Our long range plans include the possibility of founding an international institute at UBC for the advancement of indigenous people around the world."

The project has three immediate goals: to increase the numbers of native Indians enrolled at the University; to assist departments and faculties in developing programs and providing support services for native students; and to identify and promote research that will address the needs of British Columbia's native population.

A First Nations House advisory committee, chaired by the Hon. Thomas Berger, has been established to provide input from native Indian people. The First Nations House will be operational by September 1, 1987. The project will be staffed with a director and support staff who will have a wide range of responsibilities. It will provide a permanent base of operations at the University for native Indian concerns, and will hold seminars and workshops to strengthen the links between the University and the native Indian population.

ATHLETICS continued from Page One

meeting once a week, and are hoping to receive input from as many sources as possible. "I have received some letters already," says Dr. Srivastava, "and I would like to encourage whatever input people would like - either by letter, or phone, or in meetings with the committee. As Presidential appointees, the members of the Task Force will be working together to resolve the issues, rather than representing the specific constituencies from which they came."

Dr. Srivastava can be reached at 228-5075, or via campus mail at the Old Adminstration Building, 6328 Memorial Road.

New Sikh chair established

A Chair in Punjabi Language and Literature and Sikh Studies will be established at the University of B.C., President David W. Strangway has announced.

The federal government will match the $300,000 that has been raised by Canadian Sikh groups to fund the program.

Dr. Strangway is "very pleased that UBC has obtained this chair."

"UBC already has a very strong Asian Studies program," he said, "and the university is delighted to be able to expand it even further. The study of Punjabi language and literature is an aspect UBC has wanted to add on for some time, especially as there are a large number of students on the campus who relate to Punjabi."

Communications research funded

A recent grant from Northern Telecom Ltd. will help the University improve its computer communications research. Northern Telecom has agreed to make an annual contribution of $50,000 to the University, and UBC plans to use the funds to assist in applying for an NSERC Industrial Research Chair in Computer Communications. "The awarding of this chair would make it possible to attract a researcher of international stature to enhance and complement the current research group." says Dr. James Murray, director of UBC's Industry Liaison Program.

Computer communications research on campus is carried out by the departments of Computer Science and Electrical Engineering with eight faculty members and 30 graduate students involved. It is just one of seven research groups which make up the Centre for Integrated Computer Systems Research (CICSR). "CICSR was set up to foster collaboration in research between departments and to provide a focus for external contact with industry and government," Dr. Murray says.

Museum curator Joe Nagel sizes up the jellyroll display.

Giant jellyroll preserved

Although its name conjures up the image of a tasty local dessert, the Lytton jellyroll is in fact a geological curiosity. It is so unusual that the B.C. government's Heritage Conservation Branch recently commissioned a Calgary company to make two life-size impressions of the structure. One of the four by seven metre castings now stands in UBC's M.Y. Williams Geological Museum.

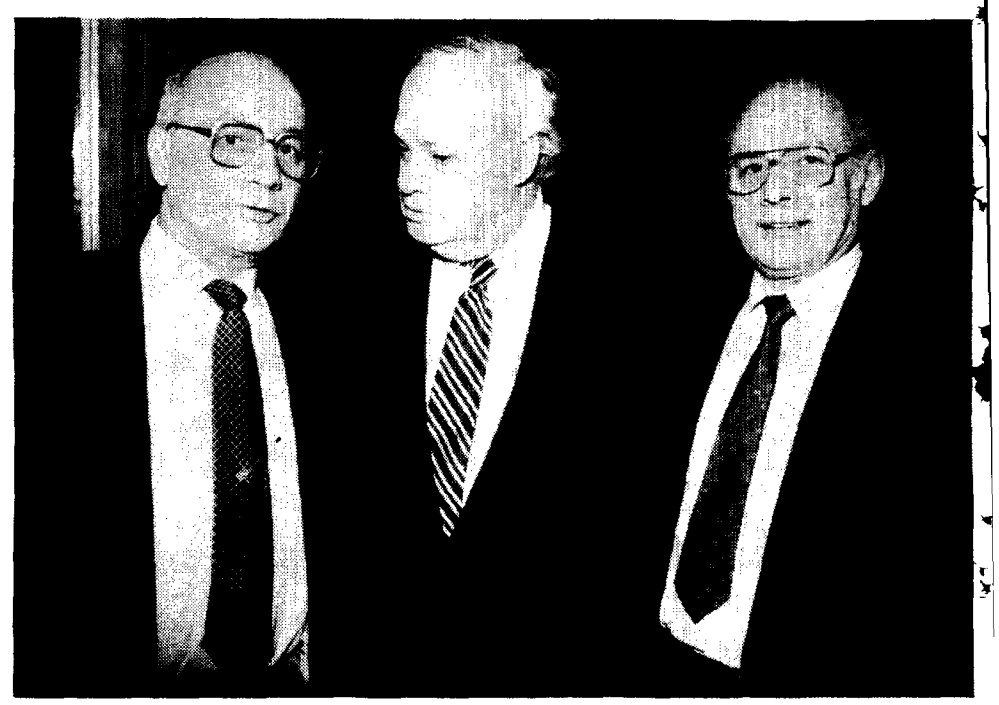
The Lytton jellyroll is open to view in a Ministry of Highways gravel pit two kilometres south of Lytton. It's a sedimentary formation of sand and clay that geologists call a turbidite. Scientists speculate it was formed in an ice-dammed lake during the last glaciation, 12,000 years ago, in an underwater landslide. Instead of breaking up and dispersing, the sediment layers rolled up like a jellyroll. Additional deposits covered and protected the anomaly.

Structures such as the jellyroll are usually measured in centimetres, rarely in metres. The Lytton jellyroll is the grandaddy of them all, spreading four by five metres. "Such structures give scientists a considerable amount of information about the physical processes of sedimentation," said Joe Nagel, Curator of the Geological Museum. "The Lytton jellyroll is special because of it's size."

Mr. Nagel was a key figure in negotiations with the B.C. government several years ago to mark and protect the jellyroll site. Working with the Lytton Heritage Society, and the Lytton Chamber of Commerce, he prompted the Heritage Conservation Branch to step in to preserve this unique feature of B.C.'s natural heritage before it was lost to erosion.

The Heritage Conservation Branch called in PML Exhibit Services, a company which had developed a specialized process for just this kind of project. Technicians first sprayed the feature with a mixture of laytex rubber to hold the loose grains of sand in place. They then covered it with more than 1,000 patches of burlap dipped in rubber to take the impression and backed the mould with fiberglass to stiffen it. The process preserves a negative copy of the feature; a positive reconstruction is then taken from the mould. Three days after the work was completed, part of the Lytton jellyroll slumped away.

One replication of the jellyroll was installed in the UBC Geological Museum. The other casting will go on display in the Lytton Heritage Park Museum, scheduled for construction later this year.



Mr. Helmut Eppich (left) and Mr. Hugo Eppich (right) with UBC President Dr. David Strangway.

$120,000 raised for fellowship

The German-speaking community of British Columbia has raised $120,000 to provide an endowment fund for a Graduate fellowship in Germanic Studies. The announcement of the new fellowship was made at a dinner and ceremony hosted by UBC President Dr. David Strangway and Mrs. Strangway, and Mr. Helmut Eppich and Mr. Hugo Eppich last month. The Eppich family laid the foundation for the endowment with a $50,000 donation. Contributions were quickly added by German speakers who represented many different countries including Austria, Switzerland, Yugoslavia, Romania, Sweden and Norway. The Honourable Frank Oberle, Minister of State for Science and Technology, attended the dinner as did major donors to the campaign.

PEOPLE

Seven UBC nominees are among 93 men and women who will receive the first annual Canada Research Fellowships, worth $35,000 a year for three years plus a research allowance.

The candidates who will use their fellowships at UBC are **Lawrence R. Aronsen**, a member of the history faculty; **Richard A. Cavell**, a UBC English graduate presently at York University; **Donna B. Gerdts**, who taught linguistics at UBC last year and is now in Buffalo, N.Y.; **Mark Glouberman**, philosophy, from the University of Calgary; **Robert D. Levine**, a former member of the UBC linguistics faculty, now at Simon Fraser University; **David Lorne MacDonald**, a Killam Post-Doctoral Fellow in literature; and **Carmela K. Patrias**, a UBC history graduate who is now a post-doctoral fellow at the University of Toronto.

The fellowships program is the first Social Sciences and Humanities Research Council initiative under the federal government's matching-funds policy, which provides, on a matching basis, grants equivalent to private contribution.

Each fellowship carries the possibility of renewal for a further two years, and is tenable only at a Canadian university.

The winners were selected from 191 candidates nominated by 26 universities.

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Prof. Keith Brimacombe of UBC's Department of Metals and Materials Engineering has been elected a Distinguished Member of the Iron and Steel Society of the American Institute of Mining, Metallurgy and Petroleum Engineers. It is the highest honor bestowed by the society and is given in "acknowledgement of exceptional achievements and contributions to the industry".

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Prof. Roy Rodgers of the School of Family and Nutritional Sciences has just published a new volume entitled Divorced Families: A Multidisciplinary, Developmental View. The book describes the post marital relations of divorced couples.

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Prof. Robert H. Jackson of the Political Science Department was recently awarded the 1986 prize of the British International Studies Association for the best article published during the year in the journal Review of International Studies. Prof. Jackson's article was entitled "Negative Sovereignty in Sub-Saharan Africa". **Prof. Kal Holsti** of the Political Science Department has been named one of six Canadian members of the Board of Directors of the Canadian Institute for International Peace and Security.

Prodigy to play

Corey Cerovsek, the 14-year-old Vancouver-born violin prodigy who has amazed audiences in London, England and throughout North America, will appear March 20 in a benefit concert for UBC's School of Music.

The concert, which will also feature performances by faculty and students in the school's string division, marks the initiation of a new scholarship for outstanding string students that will be named after Harry Adaskin, the first head of the original Department of Music.

Harry Adaskin and Corey Cerovsek will attend a post-performance reception at the Faculty Club, where drawings will be held for art works donated by Jack Shadbolt, Gathie Falk, Gordon Adaskin, Ciccimarry and Wayne Ngan.

Tickets are $25 for the concert, to be held in the Music Building's Recital Hall, and $75 for the concert and the reception. Seating is extremely limited.

Prof. at Moscow forum

A UBC professor who attended the recent International Forum for a Nuclear-Free World and the Survival of Mankind in Moscow says he was impressed with the "magnificient, humanist speech" delivered by Soviet leader Mikhail Gorbachev.

"I am convinced the Russians mean business about wanting a comprhensive nuclear weapons test ban, and the West should have a constructive response," says Dr. Thomas L. Perry, professor of pharmacology and therapeutics, Faculty of Medicine. Referring to the nuclear test made last week by the Soviets, he said he was "disappointed but not surprised since the Russians do not perceive there is the political will in the U.S. to reach a comprehensive test ban at this time".

Dr. Perry, who attended the forum as a member of Canadian Physicians for the Prevention of Nuclear War, said that "listening to Gorbachev, it was obvious he is making major efforts to change things."

He said the Soviet leader called it a "crime" to spend huge sums of money preparing for nuclear war when there are unmet health, education and agricultural needs in so many countries.

Dr. Perry said the new Soviet "glasnost" or openess was evident at the meetings held in the Kremlin where 1,000 foreigners from 80 countries met with the Russians to discuss the survival of humanity. He said there were forums for artists and writers, scientists, businessmen, religious representatives, even retired generals and admirals, as well as for physicians.

"The atmosphere was very good, discussions very vigourous and frank; there were disagreements but little in the way of prepared speeches. The main discussion among physicians dealt with the importance of working towards a nuclear test ban.

"They are trying hard to democratize the Soviet Union. I was impressed with how much freer Soviet physicians are now to criticize without looking over their shoulders."

Physicians at the forum agreed it is important that East and West overcome their paranoia and hostility and Dr. Perry believes one way to do this is with "increased personal contact. In Russia, our colleagues were very demonstrative, giving us great bear hugs as welcome. We must avoid stereotyping such as the images reinforced by the TV mini series **Amerika**," he said.

Dr. Perry, with Dr. James G. Foulks, has edited **End the Arms Race: Fund Human Needs**, which covers the Proceedings of the 1986 Vancouver Centennial Peace and Disarmament Symposium. The book is published by Gordon Souls, West Vancouver. Dr. Perry was heard on CBC-Radio's **Morningside** last week discussing the peace forum.

Call for entries

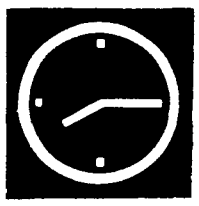
Once again the Science Council of B.C. is calling for nominations for their annual British Columbia Science and Engineering Awards. Awards are made in four categories: natural sciences, health sciences, engineering and applied sciences and industrial innovation and the deadline for the council to receive nominations is March 31. The awards were established in 1980 to recognize the accomplishments of B.C. researchers. Previous UBC winners include Prof. Vinod Modi (1986); Dr. Robert Noble, Prof. Keith Brimacombe (1985); Prof. Rudi Haering, Prof. Michael Smith (1984); Prof. John C. Brown (1983); Prof. Julia Levy (1982); Prof. Clayton Person, Prof. David Suzuki and Prof. John B. Warren (1981); and Professor Emeritus Harold Copp (1980).

UBC in focus

The UBC men's basketball team will be in Halifax next week for the Canadian Interuniversity Athletic Union (CIAU) Championship finals. The game will be televised and broadcast nationally on CTV Saturday March 14.

UBC Calendar

THE VANCOUVER INSTITUTE



Saturday, Mar. 14
Canada and the U.S.: Trade Realities. The Honourable Allan E. Gotlieb, O.C. Ambassador to the United States.

Saturday, March 21
Industrial Relations: Conflict or Cooperation.Prof. George S. Bain, Director, School of Industrial and Business Studies, Warwick University...

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

SUNDAY, MARCH 8

UBC Open House.
Peking Opera. Co-sponsored by the Department of Asian Studies. Free admission. Recital Hall, Music Building. 2 p.m.

Religious Studies Symposium.
Folk Healers for the Modern Masses. Japanese Situations: Dr. Tokutaro Sakurai, President, Komazawa University, Tokyo (sister university of UBC). Korean Cases: Dr. Yunshik Chang, Anthropology and Sociology, UBC. Room 604, Asian Centre. 7 p.m.

MONDAY, MARCH 9

Institute of Asian Research and the Consulate General of the Republic of Korea Films.
Kyung Ju – 17 minutes, 1986. Mount Sorak – 19 minutes, 1983. Cheju Island – 20 minutes, 1983. For further information call, 228-2746. Seminar Room 604, Asian Centre. 12:30 p.m.

Science for Peace Lectures.
The Physics of Weapons--IV. Prof. Luis de Sobrino, Physics, UBC. Room A205, Buchanan Building. 12:30 p.m.

Chemistry Lecture.
Laser Multiphoton Ionization. Prof. Richard N. Zare, Chemistry, Stanford University. Room 225, Chemistry Building. 2:30 p.m.

Mechanical Engineering Seminar.
Flow and Heat Transfer in the Continuous Casting Process. Paul Matys, Graduate Student, Mechanical Engineering, UBC. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Biomedical Discussion Group.
Interaction of Vanadium with Tyrosine Kinases and Other Enzymes. Dr. Michael Gresser, Chemistry, Simon Fraser University. IRC 4. 3:45 p.m.

Astronomy Seminar.
The Institute for Advanced Study Galaxy Model: A Software Telescope. Dr. Kavan Ratnatunga, Dominion Astrophysical Observatory, Victoria. Room 260, Geophysics and Astronomy Building. 4 p.m.

Economics Seminar.
Is One Enough for Monopoly? Raymond Deneckere, Northwestern University. Room 351, Brock Hall. 4 p.m.

Preventive Medicine and Health Promotion Seminar.
Evaluation of Preventive Interventions. Dr. Sam Sheps and Dr. Martin Schechter, Epidemiology and Biostatistics, Health Care and Epidemiology, UBC. For further information call, 228-2258. Room 253, James Mather Building, 5804 Fairview Crescent. 4 p.m.

International House Film Night.
The Gods Must Be Crazy. A South African comedy. Free admission. Students, faculty and members of community welcome. Gate 4, International House. 7:30 p.m.

Archaeology Lecture.
Palmyra: The Art of a Syrian Desert City. Prof. Malcom Colledge, Classics, University of London. Museum of Anthropology. 8 p.m.

Graduation Recital.
Karen Ng, piano. Concerts subject to change. Free admission. Recital Hall, Music Building. 8 p.m.

TUESDAY, MARCH 10

School of Library, Archival and Information Studies Colloquium.
Scandal in America: T. J. Wise and Buxton Forman. Nicolas Barker, Head of Conservation, British Reference Library. Room 835, North Wing, Main Library. 11:30 a.m.

Botany Seminar.
Resin Components of Grindelia and Other Astereae for the Southwestern U.S. Dr. Barbara Timmermann, Pharmaceutical Sciences, University of Arizona. Room 3219, Biological Sciences Building. 12:30 p.m.

Student String Division Recital.
Free admission. Recital Hall, Music Building. 12:30 p.m.

C.A. McDowell Lecture in Chemical Physics.
Lasers: Chemistry on the Light Side. Prof. Richard N. Zare, Chemistry, Stanford University. Room 250, Chemistry Building. 1 p.m.

Oceanography Seminar.
Mortality of Juvenile Salmon During Early Sea Life: Is Predation Really a Major Factor? Dr. N. B. Hargreaves, Pacific Biological Station, Nanaimo. For further information call, Dr. William Hsieh 228-2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Centre for Metallurgical Process Engineering, Distinguished Lecturer Series.
Some Views on the Potential of Microscale Composite Materials. Dr. J. D. Embury, McMaster University. Room 317, Frank Forward Building. 3:30 p.m.

Statistics Workshop Seminar.
The Entropy Principle and Constrained Majorization, with Applications to Lotteries, Elections, Sports, Paired Comparisons. Harry Joe, Statistics, UBC. Room 102, Ponderosa Annex C. 3:30 p.m.

Research Centre Seminar.
Rubella Virus Identification Using In Situ Hybridization. Dr. J. D. Filipenko, Pathology, UBC. Room 202, The Research Centre, 950 West 28th Avenue. 4 p.m.

Economics Seminar.
A Direct-Mechanism Characterization of Sequential Bargaining Under Incomplete Information. Larry Asubel, Northwestern University. Room 351, Brock Hall. 4 p.m.

Anatomy Seminar.
Actin Filament Bundles in Mammalian Sertoli Cells – Structure and Function. Dr. Brian Grove, Anatomy, UBC. Room B37, Friedman Building, 2177 Wesbrook Mall. 4 p.m.

WEDNESDAY, MARCH 11

Pharmacology and Therapeutics Seminar.
The Effects of Ca ++ – Antagonists on Mean Circulatory Filling Pressure in Conscious Rats. Robert Waite. Room 317, Basic Medical Sciences Building, Block C. 12 noon.

Wednesday Noon-Hour Concert.
John Sawyer, violin and Doreen Oke, harpsichord. Donation requested. Recital Hall, Music Building. 12:30 p.m.

History Lecture.
Industrialization and the Standard of Living in Sweden in the Eighteenth and Nineteenth Centuries. Co-sponsored by Committee on Lectures. Prof. Ulf Olsson, University of Umea. Room A205, Buchanan Building. 12:30 p.m.

Forestry Seminar.
Carnation Creek – Some Reflections on Water, Forest and Logging in a Long Term Experimental Watershed. Dr. Eugene Heatherington, Pacific Research Centre, Victoria. For further information call, 228-2507. Room 166, MacMillan Building. 12:30 p.m.

Geography Colloquium.
Problems with Models of Frost Heave. Chris Burn, Killam Postdoctoral Fellow, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Applied Mathematics Seminar.
Progress in Modeling the Response of Air-Blast Loaded Beam and Plate Structures. Dr. M. D. Olson, Civil Engineering, UBC. Room 229, Mathematics Building. 3:45 p.m.

Animal Resource Ecology Seminar.
Territoriality, Foraging and Fat Gain in Hummingbird Migration. Dr. Lynn Carpenter, Ecology and Evolutionary Biology, University of California at Irvine. Room 2449, Biological Sciences Building. 4:30 p.m.

Cinema 16.
Virgin Spring. Sub Auditorium. 7 p.m. and 9:30 p.m.

CAIS Seminar.
Artificial Intelligence and Default Reasoning. Prof. James Delgrande, Computing Science, Simon Fraser University. Conference Room, Sedgewick Library. 7:30 p.m.

THURSDAY, MARCH 12

Medical Grand Rounds.
Immunology of Multiple Sclerosis. Dr. Jack P. Antel, Neurology, Montreal Neurological Institute, McGill University. Lecture Theatre, Room G279, Acute Care

UBC Calendar

Unit. 12 noon.

Geological Sciences Seminar.
The Cassiar Mountains: Paleozoic Ophiolites and Cretaceous–Eocene Manto Silver Deposit. Dr. J. Nelson, B.C. Ministry of Energy, Mines and Petroleum Resources. Room 330A, Geological Sciences Building. 12:30 p.m.

UBC Chinese Instrumental Ensemble.
Program of Hakka and Cantonese music. Guest performer, Huang Jinpei visiting professor of music from the Guangzhou Conservatory of Music, Canton. Director, Alan R. Thrasher. Free admission. Recital Hall, Music Building. 12:30 p.m.

Aquaculture Seminar.
The Effect of Dietary Lipids on Broodstock Salmon and Fry Survival. Dr. Robert Roy, Department of Fisheries and Oceans, West Vancouver Laboratory. For further information call, Dr. K. M. Cheng, 228–2480. Room 160, MacMillan Building. 12:30 p.m.

School of Social Work Continuing Education Program and Centre for Continuing Education Open Forum.
Questioning the Policy Makers. Andy Armitage, Superintendant of Family and Child Services, Ministry of Social Services and Housing, B.C. For further information call, 228–2576. Lecture Hall A, School of Social Work. 12:30 p.m.

Oceanography Seminar.
Sounds Interesting – Use of Acoustic Techniques to Probe the Atmosphere and the Ocean. Dr. David Farmer, Institute of Ocean Sciences. Room 1465, Biological Sciences Building. 3:30 p.m.

Adult Education Research Centre Seminar.
Building the Social Movement: The Role of Research. Dr. Ron Faris, Director, Academic and Continuing Education Programs, Ministry of Advanced Education and Job Training. Room 1, Adult Education Research Centre, 5760 Toronto Road. 7:30 p.m.

UBC Choral Union.
James Schell, director. Free admission. Recital Hall, Music Building. 8 p.m.

FRIDAY, MARCH 13
Third–Year Recital.
Mitchell Leigh, piano. Graduate recital. Concerts subject to change. For further information call, 228–3113. Recital Hall, Music Building. 12:30 p.m.

Germanic Studies Lecture.
Macht auf dem Theater: Zu Schillers Begruendung des modernen politischen Theaters. Prof. Gisbert Ter–Nedden, Fernuniversitaet – Gesamthochschule Hagen, Federal Republic of Germany. Room B212, Buchanan Building. 12:30 p.m.

Medical Genetics Seminar.
Case Presentations and Counselling Issues. Clinical Geneticists, Clinical Genetics Unit, Grace Hospital. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

Germanic Studies Lecture.
Rueckblick auf die "Blechtrommel." Prof. Gisbert Ter–Nedden, Fernuniversitaet – Gesamthochschule Hagen, Federal Republic of Germany. Buchanan Penthouse. 3:30 p.m.

Chemical Engineering Seminar.
Predicting the Linting Characteristics of Groundwood Paper. Robert Mason, Graduate Student, Chemical Engineering, UBC. The Jari Paper Mill, Steven Weatherall, Graduate Student, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 3:30 p.m.

UBC Choral Union.
James Schell, director. Repeat of March 12 concert. Free admission. Recital Hall, Music Building. 8 p.m.

SATURDAY, MARCH 14
Terrorism.
A program on the extent of terrorism. Speakers include Sgt. Wayne Douglas, RCMP; Alan Cunningham, History, SFU; David Schweitzer, Sociology, UBC. Cost is $30. For registration information call, 222–5238. IRC 2. 9:30 a.m. to 3:30 p.m.

Graduate Recital.
Stephen Creighton, flute. Concerts subject to change. For further information call, 228–3113. Recital Hall, Music Building. 8 p.m.

SUNDAY, MARCH 15
Third–Year Recital.
Toni Marr, violin. Concerts subject to change. For further information call, 228–3113. Recital Hall, Music Building. 2:30 p.m.

MONDAY, MARCH 16
World War 11 Lecture.
The Role of the German Army in Auschwitz. Dr. R. Urba, UBC. Buchanan Penthouse. 11:30 a.m.

Student Composition Division Recital.
Concerts subject to change. For further information call, 228–3113. Free admission. Recital Hall, Music Building. 12:30 p.m.

Science for Peace Lecture.
The Biological Effects of Modern Warfare -- 1. Prof. George Spiegelman, Microbiology UBC. Room A205, Buchanan Building. 12:30 p.m.

Institute of Asian Research and the Consulate General of the Republic of Korea Films.
Korean Garments – 18 minutes, 1986. Traditional Korean Wedding – 20 minutes, 1985. Sulpure, Korean Folk Dance – 18 minutes, 1986. For further information call, 228–2746. Seminar Room 604, Asian Centre. 12:30 p.m.

Mechanical Engineering Seminar.
The Dynamics of Guided Circular Saws. Prof. S. G. Hutton, Mechanical Engineering, UBC. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Biochemical Discussion Group.
Characteristics of a Heat–Shock Transcription Factor of Drosophila Melanogaster. Dr. Carl Parker, California Institute of Technology. IRC 4. 3:45 p.m.

Applied Mathematics Seminar.
An Asymptotic Analysis of the Density Profile of a Gas in a Gravitational Field. Dr. Bernard Shizgal, Chemistry, UBC. Room 229, Mathematics Building. 3:45 p.m.

Astronomy Seminar.
The Institute for Advanced Study Galaxy Model: A Software Telescope. Dr. Kavan Ratnatunga, Dominion Astrophysical Observatory, Victoria. Room 260, Geophysics and Astronomy Building. 4 p.m.

TUESDAY, MARCH 17
School of Library, Archival and Information Studies Colloquium.
Shakespeare Music Catalogue. Dr. Bryan Gooch, Editor, Shakespeare Music Catalogue. Room 835, North Wing, Main Library. 11:30 a.m.

Botany Seminar.
Mate Choice in Plants. Dr. Mary Price, Biology, University of California. Room 3219, Biological Sciences Building. 12:30 p.m.

Cecil H. and Ida Green Visiting Professor.
The Future of Trade Unions. Prof. George Bain, School of Industrial and Business Studies, University of Warwick. Room 104, Henry Angus Building. 12:30 p.m.

Student Keyboard Division Recital.
Concerts subject to change. For further information call, 228–3113. Free admission. Recital Hall, Music Building. 12:30 p.m.

Chemistry Seminar.
Picosecond Laser Studies of Molecular Motion in Liquids. Prof. Robin M. Hochstrasser, Chemistry, University of Pennsylvania. Room 250, Chemistry Building. 1 p.m.

Metals and Materials Engineering Seminar.
TEM Characterization of Interphase Boundaries in Al–Ag and Al–Ag–Cu Systems. K. K. Sagoe–Crentsil, Graduate Student, Metals and Materials Engineering, UBC. Room 317, Frank Forward Building. 3:30 p.m.

Statistics Workshop Seminar.
Constrained Estimation and Cluster Analysis Using *Minimum Kullback Leibler Divergence Methods.* Anne Sheehy, University of Washington. Room 102, Ponderosa Annex C. 3:30 p.m.

Oceanography Seminar.
Carbon Accumulation in the Recent Sediments of the Black Sea. Prof. S. E. Calvert, Oceanography, UBC. For further information call, Dr. William Hsieh, 228–2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Mathematics Colloquium.
A Non–Euclidean Big Bang. Prof. Harold Stark, Mathematics, M.I.T. and U.C.S.D. Room 1100, Mathematics Annex. 3:45 p.m.

Graduate Recital.
Ray Horst, clarinet. Concerts subject to change. For further information call, 228–3113. Free admission. Recital Hall, Music Building. 8 p.m.

WEDNESDAY, MARCH 18
Pharmacology and Therapeutics Seminar.
Intracellular Ca2+–Homeostasis: A Study in Control and Cystic Fibrosis Patients. Dr. S. Katz. Room 317, Basic Medical Sciences Building. Block C. 12 noon.

Art and Archaeology Lecture.
Greek Art in the Middle East after Alexander's Conquest. Prof. Malcom Colledge, University of London. Room 104, Lasserre Building. 12:30 p.m.

Wednesday Noon–Hour Concert.
Elizabeth Volpe, harp. In cooperation with CBC Radio. Donation requested. Recital Hall, Music Building. 12:30 p.m.

Forestry Seminar.
Kiwi Wood – Is It Any Good? Dr. Everett E. Ellis, Canterbury University, New Zealand. For further information call, 228–2507. Room 166, MacMillan Building. 12:30 p.m.

Geography Colloquium.
Interpreting the Wetlands of Southwestern Ecuador. Alfred H. Siemens, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.
Role of Food Supply in Determining Numbers of Shore Birds on British Estuaries. Dr. John Goss–Custard, Institute of Terrestrail Ecology, Furzebrook Research Station, Dorset. Room 2449, Biological Sciences Building. 4:30 p.m.

Cinema 16.
Gertrude Stein: When This You See Remember Me. SUB Auditorium. 7 p.m. and 9:30 p.m.

Zoology Lecture. 1987 Spencer Memorial Lecture.
The Genetic Architecture of Insect Life Histories. Dr. Hugh Dingle, Entomology, University of California, Davis. Room 2000, Biological Sciences Building. 8 p.m.

THURSDAY, MARCH 19
UBC Chamber Ensembles.
John Loban, director. Free admission. Recital Hall, Music Building. 12:30 p.m.

Geological Sciences Seminar.
Geology and Mineral Deposits of the Cowichan Lake Area. Dr. N. Massey, B.C. Ministry of Energy, Mines and Petroleum Resources. Room 330A, Geological Sciences Building. 12:30 p.m.

Asian Studies Colloquium.
Mishima Yukio as a Philosophic Novelist. Dr. Roy Starrs, Asian Studies, UBC. Room 604, Asian Studies. 12:30 p.m.

Reading and Panel Discussion.
Reading by surrealist poet–novelist Michael Bullock with comments on his work from Andrew Parkin, Jack Stewart and Andrew Busza. Sponsored by the English Department. Buchanan Penthouse. 3:30 p.m.

Cecil H. and Ida Green Visiting Professor.
Recent Developments in Private Sector Industrial Relations in Britain. Prof. George Bain, School of Industrial and Business Studies, University of Warwick. Room 101–102, Law Building. 3:30 p.m.

Asian Research Seminar.
Central Tax Reform, Land Tenure and Local Dominance in Qing South China. Edgar Wickberg, History, UBC. For further information call, 228–2746. Room 604, Asian Centre. 4:30 p.m.

Adult Education Research Centre Seminar.
The Enemies of Adult Education. Prof. Gordon Selman, Adult Education, UBC. Room 1, Adult Education Research Centre, 5760 Toronto Road. 7:30 p.m.

FRIDAY, MARCH 20
University Singers.
James Fankhauser, director. Free admission. Recital Hall, Music Building. 12:30 p.m.

Medical Genetics Seminar.
Approaches in Genetic Analysis of Linkage Group I in C. Elegans. Anne Marie Howell, Terry Starr and Ken Peters, Medical Genetics, UBC. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

Chemical Engineering Seminar.
Basics of Colour Control in Papermaking. Keith Davenport, Graduate Student, Chemical Engineering, UBC. Continuous Digestor and Computer Control Using EA Analysis. John McIlwain, Graduate Student, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 3:30 p.m.

Scholarship Benefit Concert.
Corey Cerovsek, violin prodigy with faculty and students of the School of Music String Division. In honour of Harry and Frances Adaskin. Tickets: $25 for concert; $75 for concert, reception and drawings for art by Jack Shadbolt, Gathie Falk and other leading artists. Tickets limited. For further details and reservations call, 228–3113. Recital Hall, Music Building. 8 p.m.

SATURDAY, MARCH 21
UBC Child Study Centre.
Fourth in a series of five lectures with the general title Helping Children Learn, sponsored by UBC's Child Study Centre. One Teacher ..All Teachers.. The Personalization of Learning. Sister Valerie and Mary Taylor. Information on fees is available from the education faculty's Field Development Office, 228–2013. Child Study Centre, 4055 Blenheim St. 9:30 a.m. – 12:30 p.m.

Thunderbird Rugby.
UBC hosts the Trojans Club Team. Thunderbird Stadium. 2:30 p.m.

University Singers.
James Fankhauser, director. Repeat of March 20 concert. Free admission. Recital Hall, Music Building. 8 p.m.

NOTICES
Nitobe Memorial Garden.
The Nitobe Memorial Garden will be closed weekends. Hours will be Monday to Friday, 10 a.m. to 3 p.m. Free admission during winter hours.

Botanical Garden.
The Main Botanical Garden on Stadium Road will be open daily (including weekends) from 10 a.m. to 3 p.m.

UBC Tennis Lessons.
The Tennis Centre is offering lessons in the tennis bubble, every Wednesday and Friday, or Tuesday and Thursday. The lessons are one hour twice a week for two weeks – novice, intermediate or advanced players. A complete list of courses is available by calling 228–2505, or you can pick up a brochure from the Tennis Centre Office, Osborne Unit 11.

Frederic Wood Theatre.
The Frederic Wood Theatre presents The Winter's Tale by William Shakespeare under the direction of Ray Michal, until March 14. For information and reservations call, 228–2678. Frederic Wood Theatre. 8 p.m.

Badminton Club.
Faculty and Staff Badminton Club meets Tuesday 8:30 – 10:30 p.m. and Fridays 7:30 – 9:30 p.m. in Gym A of the Robert Osborne Sports Centre. Fees $10 until April 3. New members welcome. For more information call, Bernie 228–4025.

Statistical Consulting and Research Laboratory.
The Statistical Consulting and Research Laboratory (SCARL) is operated by the Department of Statistics and is intended to provide statistical advice to faculty and graduate students working on research problems. The faculty and staff associated with SCARL will be pleased to help with the design and analysis of experiments, surveys and other studies. You are encouraged to seek advice in the early stages of your research so that consultants may be helpful with the design. To arrange an appointment, fill out a client form, available from Room 210, Ponderosa Annex C. For further information call, 228–4037

Volunteer Connections.
To find an interesting and challenging volunteer job, get in touch with Volunteer Connections, the on–campus information and referral service supported by the AMS. Student interviewers are trained to help UBC students, staff and faculty find volunteer jobs in their area of interest. For an appointment to explore the available volunteer options, contact: Volunteer Connections, Student Counselling and Resource Centre, Brock Hall 200. 228–3811.

Calendar Deadlines.
For events in the period March 22 to April 4, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, March. 12 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

FIRST CLASS MAIL

UBC Reports is published every second Thursday by Community Relations, UBC
6328 Memorial Road,
Vancouver, B.C. V6T 1W5
Telephone 228–3131. Elaine Stevens, editor
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