

UBC REPORTS

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Megan Cross photo

Winning Wall

One of the more than 400 teams who signed up to Storm the Wall on the 20th anniversary of the competition struggles to conquer the crowd-pleasing 12-foot wooden monster. The popular Intramural Sports and Recreation five-person relay consists of swimming 11 widths of the Aquatic Centre pool, a 450-metre sprint, a 2.8-kilometre cycle, a one-kilometre run and finally a team-storming of the wall. Finishing first in the student team entries were: men, Team EPO (12:31); women, Women's Med (14:43); co-recreational, Les Rehabitants (12:55). Top Ironpeople were Arts student Will Amos (15:23) and Forestry student Farah Fraser (17:45). Winners in the community division were the Guard Dogs, the men's campus patrol team, who turned in a time of 16:53.

Arts dean resigns for challenges, growth

Shirley Neuman, dean of UBC's Faculty of Arts since 1996, has announced she is leaving the university to accept a position as dean of the College of Literature, Science and the Arts at the University of Michigan.

Neuman says her decision to leave is in no way the result of any disaffection with UBC. She says she accepted the offer because the University of Michigan is one of the two best public universities in North America.

"I did not seek this opportunity; it sought me," says Neuman. "I decided, finally, to take it up because it offers challenges and room for growth that I believe will enable me to become much better at this task of university leadership and because it does so in a university — like UBC — of great intellectual vitality and distinction."

Barry McBride, vice-president Academic and Provost, regrets Neuman's departure and says she has shown out-

standing leadership, working effectively in support of the Faculty of Arts and UBC in difficult financial times.

"I would like to thank Shirley for her many contributions to UBC in the three years she has been here," says McBride. "I congratulate her on this significant appointment, and I wish her every success as she takes on new challenges."

Neuman came to UBC in 1996 from the University of Alberta where she was chair of the English Dept. She will leave UBC to take up her new appointment in July.

An advisory search committee to find a new dean will be set up as soon as possible McBride says. In the interim, McBride will be appointing an acting dean to begin July 1.



Neuman

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Tuition fee freeze to continue: Clark

Tuition fees will remain frozen for a fourth year at B.C.'s post-secondary institutions.

In announcing the decision, Premier Glen Clark said the provincial government's post-secondary education strategy for 1999-2000 also includes the creation of 2,900 new student spaces. An additional \$7.7 million will be spent on student financial assistance.

"Our commitment to improving access to post-secondary education is part of our goal to diversify and strengthen B.C.'s economy," says Clark who is also minister responsible for youth.

Of the new spaces, 700 will be in high-tech programs, adding to 500 created last year.

According to government figures, the average undergraduate tuition in B.C. is \$2,280 compared to \$3,490 in Ontario and \$3,260 in Alberta.

Increased provincial government support for student financial assistance brings the total to \$126.5 million — more than double the figure in 1991, says Clark.

"Our commitment to maintaining the tuition freeze, bolstering student financial assistance and creating new spaces

ensures the education people need is available at a cost that doesn't force them to mortgage their futures," says Andrew Petter, minister of Advanced Education, Training and Technology.

Clark and Petter say B.C.'s access plan is working and that enrolment has increased as a direct result of increased funding and frozen fees.

Since 1991, the number of students at B.C. post-secondary institutions has increased by 10 per cent, while in the rest of Canada it has declined by 4.4 per cent.

In a report released last month by the Canadian Centre for Policy Alternatives, UBC Economics Prof. Robert Allen noted spending on colleges and universities has increased much more rapidly in the 1990s in B.C. than elsewhere in Canada and enrolment has expanded.

However, in "The Education Dividend" Allen notes post-secondary enrolment has not been much greater than population growth with the result that participation rates did not rise sharply.

Class sizes have also grown substantially at B.C. universities because enrolment has been increased without sig-

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In Memoriam

Evelyn Lett, 1896 - 1999

A Truly Great Trekker

Evelyn Story Lett, one of UBC's first graduates and a founding member of the Alma Mater Society, died March 26.

Together with her future husband, Sherwood Lett, she created the first formal draft of the AMS constitution which gave women the right to vote in student elective elections.

In 1917, her graduating year, the annual said "as a rare specimen of a devotee to both studies and student activities, Evelyn should be put under a glass case as an example for the rising generation."

She received her Master of Arts from UBC in 1926.

After World War II she served on a federal government commission to study employment problems of women. In 1949 she drew up a petition to the government which resulted in women's residences on campus.

In 1958 the university awarded her an honorary degree.

The UBC president at the time, Norman MacKenzie, said that "her wide range of public services reflects the humanity, compassion and respect for learning which have made Evelyn Story Lett a woman, a graduate

and a citizen whom we are proud and happy to honour."

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Lett

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Fees

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nificant corollary increases in the number of full-time faculty, the report says.

In addition to freezing tuition fees, Allen's report recommended the government significantly increase educational spending in order to achieve its stated objectives of economic development and greater access.

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Lett

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Always active in community organizations, she served on the board of the YWCA and Vancouver General Hospital, and helped establish the Women's Auxiliary of the Salvation Army. She was also a founding member of the Vancouver Art Gallery.

In 1996 the AMS created an endowment to provide financial aid for students needing child care. The fund, the largest endowment of its kind at a Cana-

dian university, was named in honour of Lett.

She was also given a Lifetime Achievement Award by the Alumni Association, which she helped found.

Last year, at age 101, she travelled to Ottawa to receive the Order of Canada.

"My family is more excited than me," she said. "I just want to be presented as a good citizen of Vancouver and of Canada."

Alumnus, students, former dean join Board of Governors

Four new members have recently joined UBC's 15-member Board of Governors.

UBC alumnus and architect Joe Wai has been appointed to the board for a three-year term.

Principal of Joe Y. Wai Architect, Inc., Wai designed the Dr. Sun Yat-Sen Classical Chinese Garden in Vancouver. His practice reflects his interests in social and seniors' housing as well as community projects.

He has served on a variety of boards, including the GVRD Housing Advisory Committee and the Canadian Museum of Nature.

Mark Beese, a fourth-year Forestry student, has been

elected to the board for a one-year term. Beese has served as chair of the UBC Student Senate Caucus.

An active member of the Alma Mater Society (AMS) student council, Beese has been involved with the first-year orientation program, Imagine UBC.

Third-year Science student Jesse Guscott also joins the board for a one-year term. Guscott has served as a commissioner on the AMS Finance Commission.

Anthropology and Sociology Prof. Patricia Marchak is appointed to the board for a three-year term.

Marchak, a former UBC dean of Arts, is also a faculty associate

with the Institute for Resources and Environment at UBC.

UBC's Board of Governors comprises the chancellor, the president, eight persons appointed by the lieutenant-governor, two faculty members elected by faculty, two full-time students elected by students and one person elected by full-time university staff members.

Other board members are: Chancellor William Sauder, UBC President Martha Piper, Chair Harold Kalke, Larry Bell, Anatomy Prof. Joanne Emerman, Kenneth Georgetti, Roslyn Kunin, Guninder C. Mumick, UBC Bookstore staff member Ben Pong, Linda Thorstad and Marion York.

UBC FOOD SERVICES HOURS OF OPERATION

April 12 - 30, 1999

Barn		7:30am - 4:00pm
IRC		8:00am - 3:30pm
Pacific Spirit Place		7:30am - 2:00pm
Subway	12 - 28	7:30am - 7:30pm
	29 - 30	7:30am - 4:30pm
Steamies at the Bookstore		9:30am - 3:00pm
Espresso On the Go		7:00am - 4:00pm
Trekkers Restaurant		9:00am - 2:00pm*
*Hours at Trekkers will change depending on demand.		
Express	12	7:30am - 4:30pm
	13 - 15	7:30am - 7:00pm
	16 - 29	7:30am - 4:30pm
	30	7:30am - 3:30pm
Seattle's Coffee Cart	outside Trekkers	
	12 - 29	8:00am - 1:00pm
Yum Yum's	12 - 23	8:00am - 2:45pm
Arts 200 & Edibles are Closed		

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The University of British Columbia is among North American leaders in the development and commercialization of technologies and ideas arising from university and affiliated hospital research. In the past year alone, the University Industry Liaison Office (UILO) received over 100 invention disclosures, filed 95 patents, completed 19 licensing agreements, helped obtain industrial research funding of \$33.8 million, and formed 7 spin-off companies.

As the new Managing Director of UILO, your mandate will include the development and implementation of a new vision, strategy and structure for technology transfer in order to capitalize even more fully on the commercial potential of discoveries by UBC researchers. Leading a highly qualified and committed team of 16, you will ensure that the UILO continues to serve as an important link between industry and UBC's research resources and technology opportunities.

You have a successful track record in managing technology transfer and intellectual property gained in either a business or university context, ideally both. You bring outstanding leadership, interpersonal, communication and management skills with the stature and ability to develop productive relations with many different stakeholders. Your knowledge and appreciation of the unique culture of a university and your understanding of the dynamics involved with the commercial development of new advances will both be key to your success.

UBC hires on the basis of merit and is committed to employment equity. UBC encourages all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada in the first instance.

Explore this challenging opportunity by sending your resume in confidence to Wendy Carter or Kyle Mitchell, Ray & Berndtson/Tanton Mitchell, Suite 710 - 1050 West Pender Street, Vancouver, B.C., V6E 3S7, fax: (604) 684-7988, e-mail: vancouver@raybern.ca or by calling for further information (604) 685-0261.



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Managing Editor: Paula Martin (paula.martin@ubc.ca)

Editor/Production: Janet Ansell (janet.ansell@ubc.ca)

Contributors: Bruce Mason (bruce.mason@ubc.ca),

Susan Stern (susan.stern@ubc.ca),

Hilary Thomson (hilary.thomson@ubc.ca).

Calendar: Natalie Boucher (natalie.boucher@ubc.ca)

Editorial and advertising enquiries: (604) UBC-INFO (822-4636) (phone), (604) 822-2684 (fax). UBC Information Line: (604) UBC-INFO (822-4636)

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Susan Stern photo

Designer Dumpsters

"We love to paint anything," say Agricultural Science students Selam Alazar (front) and Yasmin Chir as they transform a garbage dumpster into a work of art. The students were part of the team that won the Spring Festival "Dumpsters in Bloom" painting contest held last week. UBC staff and students turned out six colourful, eye-catching refuse bins that will be placed around the campus.

Researchers, students unite biotech forces

by Hilary Thomson

Staff writer

Some of the brightest young minds in the Lower Mainland have teamed up with UBC researchers to compete in the Connaught Student Biotechnology Exhibition being held April 19 at the Robson Square Conference Centre.

"B.C. is Canada's fastest growing biotech region," says Microbiology Prof. Doug Kilburn, director of UBC's Biotechnology Laboratory. "We need to bring biotech to the classroom to encourage young people to pursue careers in this industry."

Intended to raise awareness about biotechnology and its application in areas such as health care, agriculture and the environment, the exhibition has been held annually at centres across Canada since 1994. This is the first time there has been an exhibition in Vancouver.

UBC faculty served as mentors for four of the eight projects entered in the exhibition, representing disciplines such as medical genetics, zoology and botany.

Francis Ouellette of the Centre for Molecular Medicine and Therapeutics (CMMT) supervised three students from John Oliver Secondary School in Vancouver in a bioinformatics project comparing gene patterns in yeast and humans.

Bioinformatics, also known as computational biology, combines biology, mathematics and computer science to understand biological data.

"These students are bright and enthusiastic," says Ouellette, who is the director of the Bioinformatics Core Facility at CMMT. "Results from this project may contain discoveries that would be useful to some of our labs here."

Sir Winston Churchill Secondary School students Helen Liu and Quinn Peters, both in Grade 11, investigated the

mechanical properties of spider silk under the mentorship of Margo Lillie, a research associate in the Zoology Dept.

"It was really fascinating," says Liu. "Learning how to approach a problem is one of the most valuable tools we discovered. Working with a researcher just opens up your mind to what you can do."

Working at Prof. John Gosline's Biological Sciences lab, Liu and Peters tested the silk's properties of elasticity, extensibility and strength and its reaction to chemicals. Spider silk has potential in industrial applications because of its ideal balance of properties, says Liu.

"It was a thrill to be able to supervise these students because of their youthful enthusiasm and wealth of ideas," says Lillie. "My challenge was slowing them down and warning of possible pitfalls but allowing them to make their own mistakes."

In addition to general project direction, mentors had students carry out experiments under supervision in UBC labs and provided critical analysis of the results.

"Researchers are key to any successful biotech community," says Theresa McCurry, executive director of the B.C. Biotechnology Alliance (BCBA) which is hosting the event. "They've been very supportive and made it easy for us to pull these projects together."

Students will give a 10-minute presentation and respond to questions at the event which is expected to draw 2,000 students and educators.

Winning teams will receive cash awards of up to \$2,000 — half the award goes to the students, the other half to the school for the purchase of scientific equipment.

Projects will be judged by Kilburn, Assoc. Prof. of Medicine Steven Pelech, Yves Geoffron of the National Research Council and Bruce Schmidt, CEO of UBC spin-off company IGT Pharma Inc.

Faculty build teaching skills in new program

by Hilary Thomson

Staff writer

Graduation comes early this year for 10 UBC faculty members who are the first-ever class to complete the UBC Certificate Program on Teaching in Higher Education.

"I congratulate the graduates of this program," says UBC President Martha Piper, who will be officiating at the graduation ceremony April 8. "They are demonstrating a commitment to enhanced student learning and to developing their professional skills."

A pilot program of the Centre for Teaching and Academic Growth, which began in 1987 to build the teaching skills of UBC faculty and graduate students, the certificate program is unique in Canada because it relates strictly to faculty and gives credit for prior learning.

"We want to build on the expertise that we have here at UBC," says Gail Riddell, the centre's director. "This program invests in the people who are here now and who will be part of this community over the long-term."

In addition to supporting current faculty the program will assist the hundreds of new faculty members who will be hired over the next five years, adds Riddell.

Breaking down teacher isolation was one of the key benefits of the program for Education Asst. Prof. Tony Clarke.

"I was able to get first-hand feedback on my practice as an educator," says Clarke. "This was at times very humbling but more importantly extremely stimulating."

The program integrates theory and practice with 150 hours of interactive modular workshops, discussion and analysis, peer feedback on teaching sessions, and independent professional development activities.

Participants develop a teaching portfolio and present curriculum and teaching workshops to colleagues.

Topics are based on needs assessments done by the centre and include adult learning theory, curriculum development, course design and assessing student learning.

An independent learning plan takes into account participants' prior learning.

Program participant Prof. Helen Burt chairs the undergraduate curriculum review committee in the Faculty of Pharmaceutical Sciences.

"I wanted to build my knowledge in areas such as curricular design, strategies for assessment of learning outcomes and methods for facilitating critical thinking and active learning," says Burt. "The match between what I needed to learn and the certificate program was almost too good to be true."

Critical analysis, feedback and discussions with peers in the program were particularly challenging and rewarding, she adds.

Assessment is based on participation in all elements of the program, self-reports and peer feedback and the teaching portfolio.

The portfolio is reviewed with an advisory board comprising Riddell, the pro-

gram's co-ordinator, and two representatives from the Faculty of Education. Two program graduates will be added to the board in May. Participants are given a pass or fail grade.

"This program ties in with a new

" They are demonstrating a commitment to enhanced student learning and to developing their professional skills."

— President Martha Piper

worldwide focus on scholarship in teaching and a Canadian project that aims to develop national criteria for teaching accreditation," says Riddell.

New faculty in the U.K. and Australia are required to take similar certification in the first two years of teaching.

UBC's program has a waiting list of 75 people according to Education sessional lecturer Harry Hubball, the program's co-ordinator as well as one of its new graduates.

Other graduates are: Simon Albon, senior instructor, Pharmaceutical Sciences; Asst. Prof. Inge Andreen, Education; Alice Cassidy, lecturer, Zoology and faculty associate, UBC Centre for Teaching and Academic Growth; Asst. Prof. Gary Hepburn, Education; Janice Moshenko, lecturer, Pharmaceutical Sciences; Marion Pearson, senior instructor, Pharmaceutical Sciences; and Ellen Rosenberg, senior instructor, Science.

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Government responds to dean's resignation

From a media release distributed last week by the Humanities and Social Sciences Federation of Canada.

In light of the recent resignation of UBC Dean of Arts, Dr. Shirley Neuman, the Hon. Ron Duhamel, the secretary of state for Science, Research and Development, reaffirmed the government's support for research in the humanities and social sciences on Monday while speaking in the House of Commons.

Dr. Neuman, one of Canada's leading literary scholars and the founder of both NeWest Press and Longspoon Press, announced her intention to resign as dean of Arts at UBC on Friday to take up a similar position at the University of Michigan. Her resignation has prompted wide-spread concern that federal cuts to transfers for post-secondary education and the historical underfunding of research in the hu-

manities and social sciences has left Canadian universities unable to keep leading Canadian scholars in Canada.

Describing Dr. Neuman's departure as a "big loss for Canada," MP Ray Pagtakhan asked "what is the government doing to restore funding to research in the social sciences and humanities, a true pillar of Canadian identity?"

Duhamel responded that "while I understand this situation has occurred, I also recognize, as does my colleague, the importance of social sciences and humanities research in Canada." He noted that the government had increased the Social Sciences and Humanities Research Council Budget by \$7 million in 1998 and \$5 million in 1999.

"This government recognizes the importance of research," he concluded. "We have invested heavily and shall continue to do so."

Calendar

April 4 through April 17

Monday, April 5

Easter Monday Public Swim
UBC Aquatic Centre from 1-5pm; 6-10pm. \$3.50 adults; \$2.75 students; \$2 children/seniors. Call 822-4522.

Tuesday, April 6

Microbiology And Immunology Seminar
The Gene Transfer Agent Of Rhodobacter Capsulatus. Andrew Lang. Westbrook 100 from 12:30-1:30pm. Call 822-3308.

Botany Seminar
Summer Food-Plant Selection By Snowshoe Hares. Pippa Secombe Hett. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Classical Archeology Lecture
Excavations At Morgantina. A Greek City Of Ancient Sicily. Barbara Tsakirgis. Classical Studies, Vanderbilt U. Lasserre 104 at 12:30pm. Call 822-2889.

Australian Studies Seminar
Australian Identity Towards The 21st Century. John Goldlust. Sociology, LaTrobe U. CK Choi 120 from 12:30-2pm. Call 822-2629.

Nursing Lecture
A Community-Based Mental Health Nursing Program For Rehabilitation Of Long-Term Psychiatric Patients. Susie Kim. UBC Hosp T206 from 3-4pm. RSVP by April 1. Call Janice 822-7453.

Peter Wall Institute Complexity Seminar
Can The World Stand The Present Interest Rates? Jose Luis Lopez-Leautard, U of Mexico. University Centre Peter Wall Institute small conference room at 3:30pm. Call 822-3620.

Poetic Persuasions
Reads From Her Book Of Poems: *The Disorder Of Love*. Karen Connelly. poet. Green College at 7:30pm. Politics in Burma discussion to follow. Call 822-1878.

Wednesday, April 7

Orthopedics Grand Rounds
Embolization Of Musculoskeletal Tumours. Dr. P. Munk; Dr. T. Marotta. VGH, Eye Care Centre Aud. at 7am. Call 875-4192.

School Of Music Concert
UBC Asian Music Ensembles. Alan Thrasher; Michael Tenzer, director. Music Recital Hall at 12:30pm. Call 822-5574.

Obstetrics And Gynecology Research Seminar
Gene Therapy And Ovarian Cancer. Kyung-Chul Choi. B.C.'s Women's Hosp. 2N35 at 2pm. Call 875-3108.

Mechanical Engineering Seminar
Full Scale Tests Of A Wright Brothers Replica Aircraft. Prof. F.E.C. Culick. Applied Physics and Jet Propulsion, CalTech. CEME 1215 from 3:30-4:30pm. Refreshments. Call 822-3770.

Geophysics Seminar
Did Outburst Drainage Of Laurentide Proglacial Lakes Cause The Cold Event 8200 Years Ago? Donny Barber, U of Colorado. Geophysics/Astronomy 260 at 4pm. Call 822-4108.

Ecology, Evolution And Biodiversity Seminar
Alternative Mating Tactics And Reproductive Success In Male Sockeye Salmon. Drew Hoysack,

Zoology. FNSB 60 at 4:30pm. Call 822-2069.

Individual Interdisciplinary Studies
Applied Research In The Modern University. Martha Salcudean. Mechanical Engineering. Green College at 5pm. Call 822-1878.

Stress Workshop
Strategic Stress Management. Brian Tucker. University Hill United Church. VST Chancellor Lounge at 7pm. Call 739-7279.

Cultural And Media Studies
Panel Discussion - The Arts Critic: Role, Rights, Responsibilities? Various speakers. Reception Green College Coach House at 7:15pm. Green College at 8pm. Call 822-1878.

Thursday, April 8

Pathology Distinguished Lecture Series
The Role Of IgE And Eosinophils In The Pathogenesis Of Allergen-Driven Airway Hyper-Responsiveness. Erwin Gelfand, chairman. Pediatrics, National Jewish Medical and Research Center. VGH, Eye Care Centre Aud. at 8am. Call Bruce Verchere 875-2490.

School Of Music Concert
UBC Symphony Orchestra. Catherine Wong, violin soloist; Jesse Read, director. Chan Centre Chan Shun Concert Hall at 12:30pm. Call 822-5574.

Genetics Graduate Seminar
Invasion Of The Jumping Genes: Can We Enslave The Migrant DNA. Gerald Meister. Westbrook 201 at 3:30pm. Refreshments. Call 822-8764.

Physics And Astronomy Colloquium
Decoherence, Chaos And The Second Law. Wojciech Zurek, Los Alamos. Hennings 201 at 4pm. Refreshments Hennings 325 at 3:45pm. Call 822-2137; 822-3631.

Policy Issues In B.C. Post-Secondary Education
Difference, Globalization And The Internationalization Of Curriculum. Fazal Rizvi, director, Monash Centre for Research in International Education. Green College at 4:30pm. Call 822-1878.

Friday, April 9

Pediatric Grand Rounds
From Genes To Gene Therapy: Medicine In The Millennium. Prof. Michael Hayden, Medical Genetics. GF Strong Aud. from 9-10am. Call Ruth Giesbrecht 875-2307.

Health Care And Epidemiology Rounds
Historical Trends In Epidemiology Of Injury And Industrial Disease In B.C. 1950-1996. Aleck Ostry. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Swim Meet
Canadian Dolphins Swim Club Invitational Swim Meet And Pentadolphinlon. UBC Aquatic Centre at 9am (preliminaries); 4pm (finals). Continues to April 11. Register with organizer. Call 822-9623.

Electrical And Computer Engineering Seminar
Ultra-Wideband Impulse Radar Technology. Prof. M. Hussain. Kuwait U. MacLeod 214 from 12:30-1:30pm. Refreshments. Call 822-2405.

Ecology, Evolution And Biodiversity Seminar
The 1999 Evolution Lecture: Dynamics Of Adaptation And Diver-

gence During 20,000 Generations Of Experimental Evolution Of E. Coli. Prof. Richard Lenski. Michigan State U. FNSB 60 at 12:30pm. Call 822-2069.

Occupational Hygiene Seminar
Does Economics Have A Place In The Evaluation Of Occupational And Environmental Health? Robin Hanvelt. Health Care and Epidemiology. UBC Hosp., Koerner Pavilion G-279 from 12:30-1:30pm. Call 822-9302.

Earth And Ocean Sciences Colloquium
Faults And Fluids: What Can We Learn About Brittle Failure In The Crust From Shallow Subsurface Hydrology? Stu Rojstaczer, Duke U. GeoSciences 330-A at 3pm. Call 822-3278.

Mathematics Colloquium
Surfaces Of Constant Mean Curvature In R³. Prof. Daniel Pollack. U of Washington. Math 100 at 3:30pm. Refreshments Math Annex 1115 at 3:15pm. Call 822-2666.

Equality, Security And Community Colloquium
Education And Social Capital. John Helliwell, Economics. Green College Coach House from 3:30-5pm. Call 822-4870; 822-1878.

Chemical Engineering Weekly Seminar
A Comparative Study Of Titanium-Containing Aluminophosphate Molecular Sieves TAP0-5, -11, -31, and -36. Serge Kaliaguine, Laval U. ChemEng 206 at 3:30pm. Call 822-3601.

Astronomy Colloquium
The Evolution Of The ISM In Star-Forming Galaxies. Eric Wilcots, U of Wisconsin. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

School Of Music Concert
UBC Symphony Orchestra. Catherine Wong, violin soloist; Jesse Read, director. Chan Centre Chan Shun Concert Hall at 8pm. Call 822-5574.

Saturday, April 10

Focus Meeting
The Aging Brain And Neurodegeneration. M. Cynader; J. Stoessl, D. Doudet. IRC #5 from 8am-3pm. Call 875-5470.

UBC Botanical Garden Lecture
What Plant Where. Judy Newton. UBC Botanical Garden Reception Centre from 9am-12noon. \$25; \$22 members. To register call 822-3928.

69th Annual Dinner
Vancouver Oxford And Cambridge Society. Prof. John Helliwell. Green College Great Hall at 6:30pm. Call 669-1170.

Spring Gala Concert
UBC Medical Students. Chan Centre Chan Shun Concert Hall at 7:30pm. \$10 - proceeds to Canuck Place. Call Ticketmaster 280-3311 or for more info. 822-2697.

Vancouver Institute Lecture
How The Media Undermine Democracy. James Fallows, journalist, author, media critic. IRC #2 at 8:15pm. Call 822-3131.

Sunday, April 11

Concert
Vancouver Philharmonic Orchestra, Fraser Valley Symphony. Chan Centre Chan Shun Concert Hall at 2pm. Call Ticketmaster 280-3311 or for more info. 822-2697.

Concert
Octagon '99: A Showcase Of Eight Celebrated Canadian Musicians. Chan Centre Chan Shun Concert Hall at 8pm. Call Ticketmaster 280-3311 or for more info. 822-2697.

Monday, April 12

Fine Arts Graduation Show
UBC Fourth Year BFA Graduation Show. Asian Centre Aud. from 11am-4pm. Continues to April 26, closed weekends. Web site: http://www.interchange.ubc.ca/ubcintl or call 822-3462.

Biochemistry And Molecular Biology Seminar
Control Of Cell Fate Determination In Drosophila: The Roles Of Notch And The Nemo Kinase. Esther M. Verheyen, Biological Sciences, SFU. IRC #4 at 3:45pm. Refreshments at 3:30pm. Call 822-3178.

Astronomy Colloquium
The Next Generation Space Telescope. James Graham. U of California. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

Green College Lecture
Machines. Information And Knowledge. Prof. Alistair MacFarlane, U of Cambridge. Green College at 7:30pm. Call 822-6291; 822-8660; 822-1878.

St. John's College Lecture
The Question Of Exile In The Works Of Nancy Huston. Valia Spiliotopoulos. St. John's College Fairmont Lounge at 8pm. Call 822-8788.

Tuesday, April 13

MOA Public Program
Researching Freddie Alexi - A World Of Discovery. Doreen Jensen, Gitxsan artist, writer, and researcher. MOA at 7pm. Call 822-5087.

Concert
Gil Shaham, violinist; Akira Eguchi, piano. Chan Centre Chan Shun Concert Hall at 8pm. Call Ticketmaster 280-3311 or for more info. 822-2697.

Wednesday, April 14

Orthopedics Grand Rounds
Developments In Rheumatoid Fore Foot Reconstruction. Dr. Alastair Younger. VGH, Eye Care Centre Aud. at 7am. Call 875-4192.

Ecology, Evolution And Biodiversity Seminar
Antarctic Pinnipeds: Differing Strategies For Prey Acquisition.

John Bengtson, National Marine Mammal Laboratory. FNSB 60 at 4:30pm. Call 822-2069.

Respiratory Research Seminar
Functional Outcomes Following Lung Transplantation. Dr. Robert Levy. Medicine. VGH, doctors' residence, third floor conference room from 5-6pm. Call 875-5663.

St. John's College Speaker Series
Forest Management In B.C. Antje Wahl. Forestry. St. John's Fairmont Lounge at 8pm. Call 822-8788.

Thursday, April 15

Health, Safety And Environment Course
Occupational First Aid Level I. Vancouver Fire Hall #10, 2992 Westbrook Mall from 8:30am-4:30pm. \$90. To register call Pamela Rydings 822-2029.

Earth And Ocean Sciences Colloquium
Phanerozoic Continental Drainage And Nd Isotopes In Sedimentary Rocks Of North America. Gerry Ross, Geology and Geophysics, U of Calgary. GeoSciences 330-A at 12:30pm. Call 822-3278.

Medieval And Renaissance Discussion
Medieval And Renaissance Apocalyptic Panel Discussion. Various speakers. Green College at 4:30pm. Call 822-1878.

Agricultural Sciences Lecture
Threats To Marine Ecosystems Worldwide (And Solutions To The Problem). Tundi Agardy, senior director, Coastal Marine Conservation Program, Conservation International. Chan Centre Royal Bank Cinema at 8pm. Call 822-1219.

Friday, April 16

Health Care And Epidemiology Rounds
Tale Of Three Cities: Contrasting Patterns Of Respiratory-Related Diseases In Mexico City, Vancouver And Prague. Robert Hogg; various speakers. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Pediatric Grand Rounds
Hello Dolly: The Implications Of Cloning. Dr. Patricia Baird, Canadian Institute For Advanced Research. GF Strong Aud. from 9-10am. Call Ruth Giesbrecht 875-2307.

UBC REPORTS

CALENDAR POLICY AND DEADLINES

The *UBC Reports* Calendar lists university-related or university-sponsored events on campus and off campus within the Lower Mainland.

Calendar items must be submitted on forms available from the UBC Public Affairs Office, 310-6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. Phone: UBC-INFO (822-4636). Fax: 822-2684. An electronic form is available at <http://www.publicaffairs.ubc.ca>. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the April 15 issue of *UBC Reports* — which covers the period April 18 to May 1 — is noon, April 6.

Calendar

April 4 through April 17

Concert

Brandenburg Concerti 1-6. Vancouver Symphony Orchestra In Concert. Chan Centre Chan Shun Concert Hall 8pm. Call Ticketmaster 280-3311 or for more info 822-2697.

Saturday, April 17

Art Exhibit

Genevieve Cadieux, Morris and Helen Belkin Art Gallery from 10am-5pm. Continues to June 13. Tues.-Fri. 10am-5pm; Sat.-Sun. 12noon-5pm. \$2 adults; \$1 seniors; free for students. UBC faculty, staff. Web site: <http://www.belkin-gallery.ubc.ca> or call 822-2759.

MOA Exhibit Opening Ceremony

Nunavutmiutaniq Elisasiq - A Tribute to the People of Nunavut. MOA at 7pm. Exhibit continues to Sept. 9. Free to UBC students, staff, faculty. Web site: <http://www.moa.ubc.ca> or 822-5950.

Concert

Brandenburg Concerti 1-6. Vancouver Symphony Orchestra. Chan Centre Chan Shun Concert Hall 8pm. Call Ticketmaster 280-3311 or for more info 822-2697.

Next deadline:
noon, April 6

Notices

UBC Food Services Exam Hours

Effective April 12-30. Pacific Spirit Place from 7:30am-2pm; Subway from 7:30am-7:30pm; Barn from 7:30am-4pm; Trekkers from 9am-2pm; Express at Trekkers from 7:30am-7pm; Yum Yum's from 8am-2:45pm; Bread Garden from 7:30am-4:30pm; IRC from 8am-3:30pm; Arts200 and Edibles closed. See ad in this paper. Web site: www.foodserv.ubc.ca or call 822-3663.

University Women's Club Reception

The University Women's Club Of Vancouver invites women graduates from universities worldwide to attend the Spring Prospective Members Reception on April 8 at Hycroft, 1489 McRae Avenue, Vancouver from 6-8pm to meet members, hear about current and upcoming events and tour the Heritage clubhouse. For information and reservations call 731-4661.

Museum Of Anthropology Exhibition

Nunavutmiutaniq Elisasiq. The official opening ceremony for this exhibit of Inuit sculpture will be on Saturday, April 17, to coincide with and honor the first official day of existence of Nunavut. Continues to August 31. Free to UBC students, staff, faculty. Web site: <http://www.moa.ubc.ca> or call 822-5087 or 822-5950.

Gardens Open

The Nitobe Memorial Garden, UBC Botanical Garden and Shop in the Garden will be open until October 11 (inclusive) from 10am-6pm daily (including weekends). For the gardens call 822-9666 and the Shop 822-4529.

Vancouver (European) Handball Team

Is looking for players at all levels. We meet Fridays from 8-10pm at the Osborne Gym. For more information, visit our Web site: <http://handball-bc.hypermart.net> or call 822-4576.

Female Volunteers

Daughters who have returned home to live with their parents are needed for a PhD psychology study. An interview at your convenience is required. Please call Michele 269-9986.

Twin Research

Are you, or do you know a female adult twin? We are studying the relationship types of fraternal and identical female twins. If you can help by completing some questionnaires and being interviewed about relationships, please e-mail: tmacbeth@cortex.psych.ubc.ca or call Tannis MacBeth, Psychology 822 4826.

UBC Utilities Advisory Notice
UBC Utilities regularly performs maintenance work on underground piping and electrical systems. Work sites are always blocked off with appropriate signs

and barriers, however sometimes these signs and barriers are removed by unauthorized individuals. Please approach work sites cautiously and respect signs and/or work crew instructions to avoid potential harm. If you have any questions concerning a UBC Utilities work site, please call 822-9445.

Research Study

I am a grad student looking for families with an autistic child(ren) to answer a questionnaire regarding the effects of raising autistic children. The child must be seven years old or younger. Please call Kerri Smalley 738-8025.

TRIUMF Public Tours

An 80 min. tour takes place every Wednesday and Friday at 1pm. Free parking. Continues to April 30. To arrange for a group tour call 222-7355 or Web site: <http://www.triumf.ca/>.

Volleyball

Faculty, Staff and Grad Students Volleyball Group. Every Monday and Wednesday. Osborne Centre Gym A from 12:30-1:30pm. No fees. Drop-ins and regular attendees welcome for friendly competitive games. Call 822-4479 or e-mail kdc@unixg.ubc.ca.

UBC Zen Society

Each Monday during term (except holidays) meditation session. Asian Centre Tea Gallery from 1:30-2:20pm. All welcome. Call 822-2573.

Parents with Babies

Have you ever wondered how babies learn to talk? Help us find out! We are looking for parents with babies between four to 21 months of age to participate in language development studies. If you are interested in bringing your baby for a one-hour visit, please call Dr. Janet Becker's Infant Studies Centre, Psychology, 822-6408 (ask for Kate).

Studies in Hearing and Communication

Senior (65 years or older) volunteers needed. If your first language is English and your hearing is relatively good, we need your participation in studies examining hearing and communication abilities. All studies take place at UBC. Hearing screened. Honorarium paid. Please call The Hearing Lab, 822-9474.

Parents With Toddlers

Did you know your child is a word-learning expert? Help us learn how children come to be so skilled at learning new words! We are looking for children (two-four years old) and their parent(s) to participate in language studies. If you are interested in bringing your child for a 45-minute visit, please call Asst. Prof. Geoffrey Hall's Language Development Centre, Psychology at UBC, 822-9294 (ask for Kelley).

Relationship Research Study

Heterosexual men (25 years of age and older), in relationships of greater than six months needed for a UBC study of relationships. Complete questionnaire at home, receive \$10. Call 822-2151.

UBC Campus Tours

The Student Recruitment Office offers guided walking tours of the UBC campus. The tour begins at 9:30am every Friday morning at Brock Hall. To book a tour please call 822-4319.

BC SMILE

The British Columbia Seniors Medication Information Line (BC SMILE), answered by licensed pharmacists, is a free telephone hotline established to assist seniors, their families and caregivers with any medication-related questions including side effects, drug interactions, and the misuses of prescription and non-prescription drugs when it is not possible to direct such questions to their regular pharmacist or physician. M-F, 10am-4pm. Call 822-1330 or e-mail smileubc@unixg.ubc.ca.

Statistical Consulting And Research Lab (SCARL)

SCARL offers long- or short-term statistical and analytical assistance to UBC researchers. Resources include expertise in many areas of statistical methodology and a variety of statistical software. Web site: www.stat.ubc.ca/~scarl, e-mail scarl@stat.ubc.ca or call 822-4037.

Parent-Child Relationship Study

Are you a parent of a child who is still in school? Would you like to help me understand how parents know that they are important? Complete a survey in your own home and return your responses by pre-paid mail. Call Sheila Marshall 822-5672.

UBC Fencing Club

UBC Fencing Club meets every Wednesday 8:30-10:30pm, Friday 6-10pm and Sunday 3-7pm in Osborne Gym A. Learn decision making, poise and control. Newcomers welcome. Drop-in fee. Leave message at 878-7060.

UBC Birding

Join a one-hour birding walk around UBC Campus, every Thursday at 12:30pm. Meet at the Rose Garden flagpole. Bring binoculars if you have them. For details, call Jeremy Gordon 822-8966.

Chan Centre Tours

Free tours of the Chan Centre for the Performing Arts are held every Tuesday. Participants are asked to meet in the Chan Centre main lobby at noon. Special group tours can be booked through www.chancentre.com or at 822-1815.

Got A Stepfather?

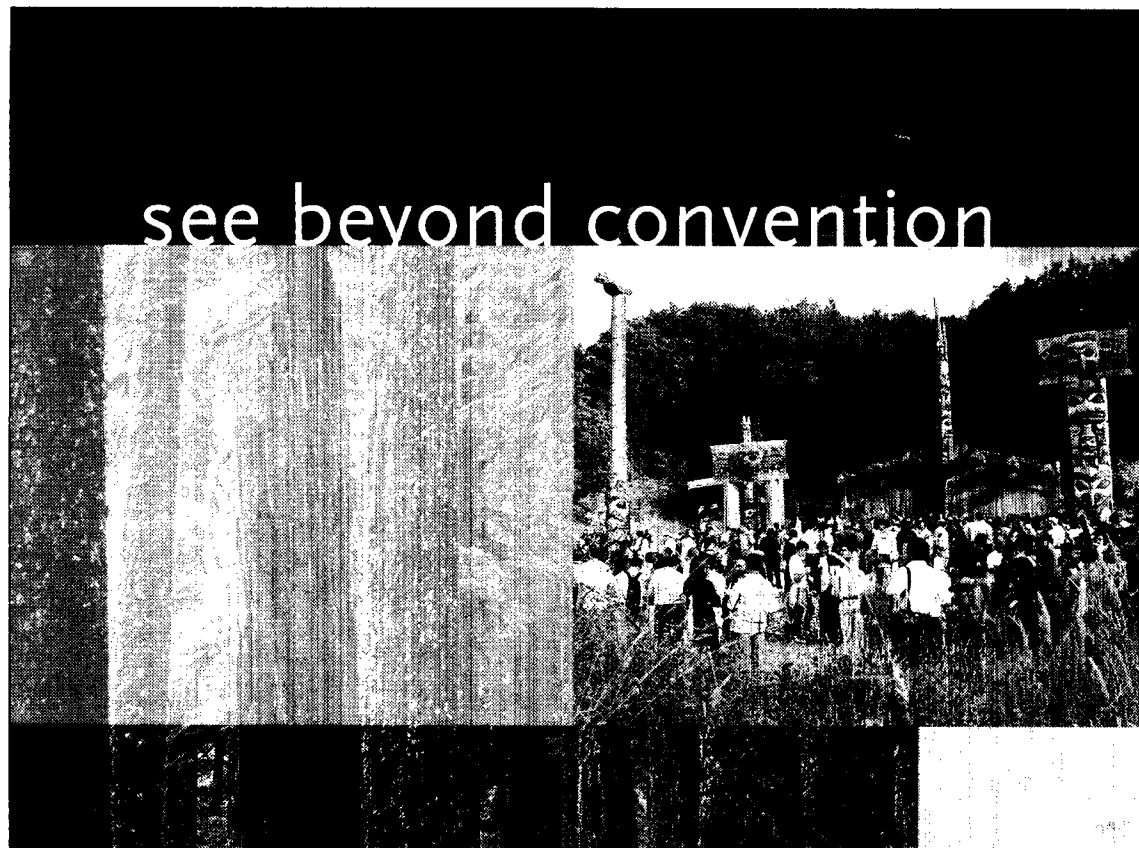
17-23 years old? Love him, hate him or indifferent, you qualify. \$10 for 30 min., anonymous questionnaire, student or non-student, mailed survey. Contact gamache@interchange.ubc.ca or Susan at 822-4919.

Faculty Women's Club

The Faculty Women's Club is composed of academic faculty, professional staff and post-doctoral fellows at UBC and its affiliates. It brings together women connected to the university either through their work or that of the spouses, for social activities and lectures. Its main purpose is to raise funds for student scholarships. There are 18 different interest groups within the club. Come and join us! Call Louise Klaassen, president 222-1983; Marya McDonald, membership 738-7401.

Research Study

5-12 year old children are needed to participate in UBC Psychology research to learn more about the ways children respond to questions about cartoons and stories. Please call Assoc. Prof. Johnston's lab at 822-9037.



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But we're not stopping there. We know IT will play an even bigger role in the education of future students, like this little guy. Building a high-speed campus-wide network to provide online access anytime, anywhere, is just one of our initiatives that will impact upcoming generations.

In our line of work we touch a lot of lives. What can we do for *you*?

Planning now for the future



Academic Accommodation for Students with Disabilities*

*policy received by the Board of Governors for information on March 18th

Policy

The University of British Columbia recognizes its moral and legal duty to provide academic accommodation. The University must remove barriers and provide opportunities to students with a disability, enabling them to access University services, programs and facilities and to be welcomed as participating members of the University community. The University's goal is to ensure fair and consistent treatment of all students, including students with a disability, in accordance with their distinct needs and in a manner consistent with academic principles.

The University will provide academic accommodation to students with disabilities in accordance with the Human Rights Code (BC) and the Canadian Charter of Rights and Freedoms. Provision of academic accommodation shall not lower the academic standards of the University. Academic accommodation shall not remove the need for evaluation and the need to meet essential learning outcomes.

Definitions

Student

A student is a person who:

- a) is registered in full-time or part-time credit or non-credit courses offered by the University; or
- b) has formally applied to the University as a prospective student.

Disability

Persons with disabilities are persons who:

- a) have a significant and persistent mobility, sensory, learning, or other physical or mental health impairment which may be permanent or temporary; AND
- b) experience functional restrictions or limitations of their ability to perform the range of life's activities; AND
- c) may experience attitudinal and/or environmental barriers that hamper their full and self-directed participation in life.

To be eligible to receive academic accommodation, students must self-identify and provide appropriate documentation of disability.

Academic Accommodation

An academic accommodation is a change in the allocation of University resources, or in teaching or evaluation procedures, which is designed to meet the particular needs of a student with a disability.

University

"University" includes all individuals involved in the provision of University-related services including teaching, advising, administering or other support services (e.g., faculty, administrators, counsellors, or other support staff).

Responsibilities of the University Towards Students with Disabilities

The University has a responsibility to:

- (a) ensure that persons are not denied admission on the basis of their disability;
- (b) accommodate students with disabilities, where appropriate, with respect to admission criteria;
- (c) make its courses or programs accessible to students with disabilities in accordance with the Human Rights Code (BC) and the Canadian Charter of Rights and Freedoms;
- (d) review documentation to ensure that recommendations and decisions regarding accommodation are based on appropriate medical information as well as educational considerations;
- (e) provide reasonable accommodation to students with disabilities;
- (f) appoint at least one Disability Liaison Person in each Faculty and in appropriate non-academic units;

- (g) ensure that faculty and staff are knowledgeable about relevant University policies and procedures and familiar with broader issues regarding persons with disabilities;
- (h) treat the information obtained as confidential according to the Freedom of Information and Protection of Privacy Act (BC).

Responsibilities of Students with Disabilities

Every student with a disability at The University of British Columbia who seeks academic accommodation due to his or her disability has a responsibility to:

- (a) provide the necessary documentation to the Disability Resource Centre. The University of British Columbia does not provide or assume the cost of diagnostic services.
- (b) bring the request for accommodations or for changes in the accommodation needs to the attention of appropriate personnel in a timely manner in order to allow for arrangement of accommodations.
 - New students are encouraged to self-identify at the time of acceptance.
 - All new and returning students who will be requesting an accommodation are required to contact the DRC at the beginning of each term.
 - Students who become disabled, either permanently or temporarily, and students with disabilities whose health status changes significantly during their time at the University, should contact DRC as soon as possible.
 - At the beginning of each term, all students should discuss their situations with each instructor from whom they are seeking accommodation. DRC will contact instructors prior to this meeting if requested to do so by the student.
 - All requests for exam and other test accommodations (e.g., extended time, alternative location, etc.) should be received by the DRC at least one week prior to the scheduled date for mid-term examinations/tests and one week prior to the start of formal examination periods.

Documentation

Documentation acceptable to the University must be obtained from medical doctors, psychologists and/or special education/rehabilitation personnel or other health professionals who have specific training, expertise, and experience in the diagnosis of conditions for which accommodation is being requested. All persons submitting documentation must be appropriately certified and/or licensed to practice their professions.

Documentation should outline the nature of the disability, along with a detailed explanation of the functional impact of the disability. A diagnosis alone is not sufficient to support a request for an accommodation.

All information obtained by the staff at the Disability Resource Centre will be treated as confidential. Personal documentation held by the DRC will be destroyed five years after a student's last registration.

When releasing information about the nature of the disability, its likely impact in an academic setting and recommended accommodations to the Disability Liaison Person and/or instructors concerned, the DRC's actions will be governed by the Freedom of Information and Protection of Privacy Act (BC).

Documentation must be current:

- (a) For new students who have a stable condition, usually no more than three years must have elapsed between the time of the assessment and the date of the initial request

for accommodation.

- (b) For returning students whose condition has remained stable since the time of submission of the original supporting documents, no further documentation will be required.
- (c) When a new or returning student's functional abilities have shown significant change (i.e., either an improvement or deterioration of status has taken place or is expected to take place) or when the accommodation requests have changed significantly over the course of studies (e.g., from 1st to 2nd year), new or updated information may be requested by the DRC. The University of British Columbia does not provide or assume the cost of diagnostic services.
- (d) In exceptional circumstances, a student will be provided accommodation on a limited basis without documentation.

Process for Reaching Accommodation

DRC staff will review the documentation provided. In consultation with the student, DRC staff will determine the range of accommodations that would be appropriate in a post-secondary setting based on the functional impact of the disability and the student's field of study.

Appropriate instructor(s) and the Disability Liaison Person in the student's faculty will be notified of the DRC's determination of the range of appropriate accommodation by the DRC or the student. With consideration of essential learning outcomes for the course or program at issue, the instructor will discuss the range of recommended accommodations with the student to determine which of these accommodations are appropriate for the course or program. The meeting between student and instructor must take place within 10 days of notification to the instructor by the DRC. If an agreement is reached between the student and instructor, the accommodation(s) will be implemented promptly.

If an agreement cannot be reached, or if the dialogue has not taken place, the student or instructor may request the assistance of the Disability Liaison Person or a DRC staff member to determine appropriate accommodation.

Appeals

If the student does not agree with the recommendations of the DRC, he or she may appeal to the Disability Accommodation Appeal Committee.

If the instructor does not agree with the recommendations of the DRC or if the student and the instructor are unable to agree on the accommodation(s) and they have consulted with the Disability Liaison Person and/or a DRC staff member, the issue will be brought before the Disability Accommodation Appeal Committee.

The Disability Accommodation Appeal Committee consists of nine members: three faculty members appointed by the Faculty Association, three students appointed by the Alma Mater Society and three members appointed by the President. The members of this committee will be appointed for up to 3 years. Appeals will be heard by three members: a member of Faculty, a student and a chair appointed by the President.

The Disability Accommodation Appeal Committee will meet with the student, instructor, DRC representatives or others as soon as possible to consider information about the student's disability, accommodation requirements, and learning outcomes.

The Disability Accommodation Appeal Committee will determine the appropriate accommodation on the basis of the student's disability and the expected learning outcomes of the course or program. The Committee will provide written reasons for its decision. Pending further appeals, the decision of the Disability Accommodation Appeal Committee will be implemented.

The decision of the Disability Accommodation Appeal Committee may be appealed to the Vice President Academic and Provost.

Please direct any inquiries or comments to Dennis Pavlich, University Counsel



Susan Stern photo

Music faculty show student composers from Lower Mainland high schools the creative possibilities in the School of Music's computer music studio. Pictured (l-r) are Shane Leech-Porter, St. George's School, Music Prof. Stephen Chatman, Olga Routkovskaia, Burnaby South Secondary School, Mark Whitmore, North Delta Secondary School, Music Prof. Keith Hamel, Amy Shackleton, Burnaby South Secondary School, and Music Asst. Prof. Michael Tenzer. Thirty students participated in the free day-long workshop offered by the school.

Workshop hosts young composers

Thirty budding student composers from Lower Mainland high schools and community colleges caught the beat of UBC's School of Music recently.

The school's first-ever music composition workshop offered the students an opportunity to experience a university student composer's typical day.

"These are music students, some of whom are taking theory or composition classes," says Music Prof. Stephen Chatman. "Some are studying composition privately and others are instrumental performers. We are trying to reach out to the community and this is a natural means of doing that."

The school offers a wide variety of courses including classical music composition, orchestration, jazz arranging, theory, film music, computer music and performance.

Chatman, and colleagues Prof. Keith Hamel and Assoc. Prof. Eugene Wilson led the visitors through a composition seminar and a tour of the computer music

studio. Assoc. Prof. Michael Tenzer directed a special demonstration by the Gamelan Ensemble comprised of students in the School of Music.

"We gave the students relevant career information, encouragement and a first-hand opportunity to experience an environment in which to pursue a career in music composition," says Chatman.

The school has a strong national reputation and many of its composition students have won national and international awards. This year there are 20 composition majors studying for bachelor's, master's and doctoral music degrees.

The visiting students came from high schools in Vancouver, Burnaby and Delta as well as Vancouver Community College, Langara College and Capilano College.

"It cost us only \$35 for refreshments and we were able to provide a meaningful experience for these high school and college students," says Chatman.

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The Early Years:
Supporting Families and Young Children
January 27-29, 2000

Location: Coast Plaza at Stanley Park, 1733 Comox Street,
Van., BC

Sponsored by: Interprofessional Continuing Education, UBC

Deadline For Abstract Submission - June 1, 1999

For Further Information:

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The 4th BC Conference on Aboriginal Women & Wellness
THE LEGACIES WE LEAVE OUR CHILDREN

January 8-11, 2000 Vancouver, British Columbia

TYPES OF PRESENTATIONS: the legacies we leave our children from past, present and future perspectives; the presentation should be in the following areas: ways of birthing, health promotion, language, storytelling, governance, cultural and political movements, oral traditions, and spirituality.

More info., Call (604) 822-4965 or
Deadline: June 11/99 Fax (604) 822-4835 or E-mail elaine@cehs.ubc.ca



LANGUAGES

French

Non-credit conversational classes start

Spanish

April 17th

Italian

Saturday morning classes

Japanese

Daytime classes during the week

Mandarin

French or Spanish Immersion Weekend at UBC
May 15-16

Cantonese

Italian Immersion in Florence, Italy
May 1-18

Arabic

Punjabi

822-0800

Greek

Swedish

Language Programs and Services

UBC Continuing Studies

www.cstudies.ubc.ca/languages

Russian

Volleyball stars UBC's top athletes

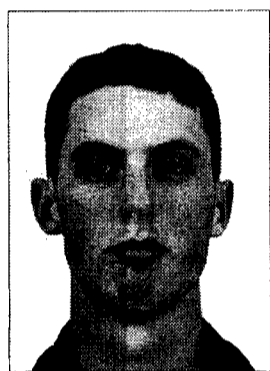
The spotlight shone on two of Canada's best volleyball players and three of its top varsity teams at UBC's 78th annual Big Block Club Reunion and Awards Banquet held last week.

Chosen as the university's female and

male athlete of the year were volleyball standouts Joanne Ross and Mike Dalziel. Three UBC teams — women's field hockey and women's and men's swimming, which all won Canadian Interuniversity Athletic Union (CIAU) national championships — share the du Vivier Team of the Year award.



Ross



Dalziel

Highlights of the banquet included the induction of 121 Block members (second-year athletes, coaches and trainers) a season-in-review

video as well as the presentation of UBC's major athletic awards.

"It was a banner year — in fact a three-banner year," says Kim Gordon, UBC's intercollegiate co-ordinator.

"UBC earned three conference championships in addition to three national titles," adds Athletics and Recreation director Bob Philip. "There were many outstanding individual performances. UBC athletes are also competing internationally — keep an eye on our swimmers and others at the Sydney Olympics."

Joanne Ross competed with the Canadian National Team and joined the T-Birds halfway through the season. She earned All-Star and Outstanding Player honours on the way to helping UBC win a second consecutive Canada West championship.

One of the nation's best-ever players, Ross is graduating in Science this year. She won the Marilyn Pomfret Trophy for top female athlete.

Mike Dalziel, who will graduate with honours in Mechanical Engineering this year, has been an Academic All-Canadian with an average of at least 80 per cent in each of his four years at UBC.

He led the CIAU in service aces and earned UBC's Bobby Gaul Memorial Trophy, awarded each year to the graduating male athlete who displays outstanding leadership and sportsmanship.

The Thunderbird women's field hockey team kicked off the 1998/99 season with UBC's 41st national championship. UBC's Hash Kanjee was named CIAU Coach of the Year after leading his team to victory over the UVIC Vikes in the championship final.

UBC's swim teams successfully defended their CIAU national titles and coach Tom Johnson was named CIAU Women's and Men's Coach of the Year for the second straight season.

The low point of the season was the recent resignation of football coach Dave Johnson after a physical confrontation.

Last year, the football team and university community lost head coach Casey Smith to cancer. Smith was posthumously given the Arthur W. Delamont award for freshman spirit. It was accepted by his widow Karen Smith at the banquet.

Forum

Why education spending is a good investment for B.C.

by Robert Allen

Economics Prof. Robert Allen's research focuses on economic growth and technological change in North America and Europe. The following is an excerpt from "The Education Dividend," a report he wrote for the Canadian Centre for Policy Alternatives (B.C. Office). The entire report can be found on the centre's Web site at www.policyalternatives.ca.

The economy of the 21st century will require a highly educated work force, and, indeed, the Canadian economy has been shifting in this direction since the 1960s. The expansion of colleges and universities has increased the supply of educated workers, while demand for their skills has grown at least as rapidly.

Data from the 1990s indicate that further expansion of the educational system is warranted. The test is whether the social rate of return exceeds the cost of borrowed funds.

Education involves the cost of building and operating schools, the student's cost of books and supplies, and the wages students forego by studying instead of working.

The principal economic gain from this investment is the higher wages that graduates and program completers earn as a result of their studies. Juxtaposing these figures gives the social rate of return, which shows the combined profitability of education to the student and the Treasury (and thus all citizens.)

Social rates of return are extremely high for finishing high school or completing high school or acquiring a trade certificate, for college career programs, and for university degrees. The profitability of completing high school with either a diploma or trade certification is in excess of 25 per cent in most cases, while the profitability of a college career diploma or undergraduate degree is generally a further 10 to 15 per cent.

Undergraduate degrees in all fields of study are highly profitable for women, and most fields are also profitable for men. Since these rates of return exceed the cost of government borrowing (5 per cent), it is profitable for the province to borrow money to make these investments.

Interprovincial comparisons throw more light on the matter.

In the 1990s, B.C. has increased its spending on education by a greater percentage than has any other province. Much of this increase, however, has simply met the needs of population growth, which has been higher here than anywhere else in Canada.

Pupil-teacher ratios in elementary and secondary schools are higher here than in many provinces, so there is a case for more spending to reduce class sizes and drop-out rates.

Post-secondary participation rates (at both the vocational/career and university levels) are near the Canadian average when participation is measured with enrolment. When program completions are the measure, B.C. does badly at the university level, since this province awards fewer bachelor degrees relative to its population than does any other province.

The number of degrees awarded is far below the growth in demand for



Allen

university graduates, so there is a strong case for expanding the universities and university colleges at the third and fourth year levels.

Class sizes have grown substantially at the province's universities because enrolment has been increased without significant corollary increases in the number of full-time faculty. An increase in the number of full-time faculty would cut class sizes, providing better education for all undergraduates, and improving completion rates.

B.C. has frozen tuition fees for post-secondary programs at low levels. This is a desirable policy in many respects, since it promotes economic development and greater access, while reducing inequality. However, the provincial government

" B.C. should increase spending on education even if greater spending leads to a deficit or postpones tax reductions."

— Prof. Robert Allen

must significantly increase educational spending in order for these objectives to be realized.

B.C. should increase spending on education even if greater spending leads to a deficit or postpones tax reductions. Education is too good an investment to pass up. It is only sound business to borrow money at 5 per cent in order to realize a profit of 10 per cent, 15 per cent, or even 25 per cent.

The demand for educated workers is rising in British Columbia, and the increase is expected to continue into the next millennium. Knowledge-based industries provide the opportunity to diversify the B.C. economy away from the extraction and export of primary resource commodities.

The profitability of investing in education at all levels is very high, and so there is both economic need and popular demand for more spending in this area.

Social rates of return and comparisons with other jurisdictions suggest the following areas require attention:

1. The B.C. pupil-teacher ratio in elementary and secondary schools exceeds the national average. An additional 1,550

teachers would be required to bring the ratio down to the Canadian average (based on 1996/7 figures).

2. A significant proportion of students in British Columbia fail to complete high school. Programs to increase graduate rates warrant further support.

3. B.C.'s universities and university colleges should be expanded to increase the number of bachelor degrees by about 70 per cent, or 8,000 per year. This would bring the rate of university completion up to the Ontario level, which is appropriate since B.C. (like Ontario) is a growth centre of the knowledge-based economy. Most of the expansion should be at the third and fourth year undergraduate level.

4. The colleges and universities need more full-time faculty to reverse the increases in university class sizes that have occurred in the last decade, as well as to teach the additional undergraduates that the provincial economy requires. To erase the damage of funding restraint and return the student-to-full-time-teacher ratio to its 1980 value would require another 1,800 full-time teachers in the university and university colleges.

In addition, the following conclusions regarding educational funding were implied by the analysis.

5. The long-run success of the B.C. economy means that the province's population has been growing — and will continue to grow — faster than that of the rest of Canada.

B.C. not only must provide the resources for its existing population — which all jurisdictions must do — but in addition must build and operate schools to accommodate the new immigrants. The latter expenditure implies that B.C. must invest at a higher rate than most other provinces.

B.C. now spends a smaller fraction of its GDP on education than all provinces except Ontario and Alberta. B.C. should increase its investment rate in education to be the highest in Canada if it expects to continue to be a growth centre in the knowledge-based economy of the 21st century.

6. Most funding for B.C. colleges and universities has come from the provincial government (including federal transfers to the province for post-secondary education).

Government funding has one great advantage over tuition fees as a source of revenue; namely, that the provincial government can borrow at lower cost than private individuals. Hence, if the province finances education, it will be profitable to expand the system beyond the point where private individuals would find it profitable.

A larger system would be good for growth and good for equality in the province. To secure these favourable outcomes, however, the provincial government must expand funding for post-secondary education.

College and university graduates, in fact, pay for more than the cost of their education through the higher taxes they pay over their lifetimes. These taxes, in effect, are compulsory contributions to their alma maters.

The federal and provincial treasuries should pass these contributions on to the colleges and universities and not use them to retire debt or reduce taxes.

News Digest

The university is seeking nominations for the 1999 3M Teaching Fellowship Awards.

The awards, begun in 1986, recognize individuals who excel in teaching and demonstrate an exceptionally high degree of leadership and commitment to the improvement of university teaching across disciplines. Up to 10 awards will be given in 1999.

Among last year's recipients were associate professors Carol-Ann Courneya of the Faculty of Medicine and Barbara Paterson of the School of Nursing.

The award is sponsored by 3M Canada Inc. and the Society for Teaching and Learning in Higher Education.

Nomination forms are available from the Office of the Vice-President, Academic and Provost by calling 822-2124 or e-mail to gsmith@oldadm.ubc.ca. They are also available on the Web at <http://www.science.mcmaster.ca/idc>. Nominations should be received by the Office of the Vice-President, Academic and Provost, no later than May 7.

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UBC's International Health Elective Program has received honourable mention for excellence in internationalization from the Association of Universities and Colleges of Canada (AUCC) and Scotiabank.

Launched in 1997, the awards recognize Canadian universities' achievements in bringing an international perspective into teaching, research and campus services.

The UBC program, which is in its first year of operation, supports students who participate in health-care assignments in developing countries. It is offered through UBC's Centre for International Health.

.....

The MS Society of Canada Professorship in Multiple Sclerosis Research, the first in Canada, has been established in UBC's Faculty of Medicine.

The professorship is part of an overall multiple sclerosis research strategy involving UBC's MS Clinic, which is the largest in Canada, and the Brain Research Centre, the new collaborative research venture of UBC and the Vancouver Hospital and Health Sciences Centre.

Multiple sclerosis attacks the protective covering of the central nervous system, causing inflammation and interfering with messages sent from the brain and spinal cord to the body.

More than 50,000 Canadians have the disease, one of the highest incidence rates in the world.

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The classified advertising rate is \$16.50 for 35 words or less. Each additional word is 50 cents. Rate includes GST. Ads must be submitted in writing 10 days before publication date to the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, accompanied by payment in cash, cheque (made out to UBC Reports) or journal voucher. Advertising enquiries: UBC-INFO (822-4636).

The deadline for the April 15 issue of UBC Reports is noon, April 6.

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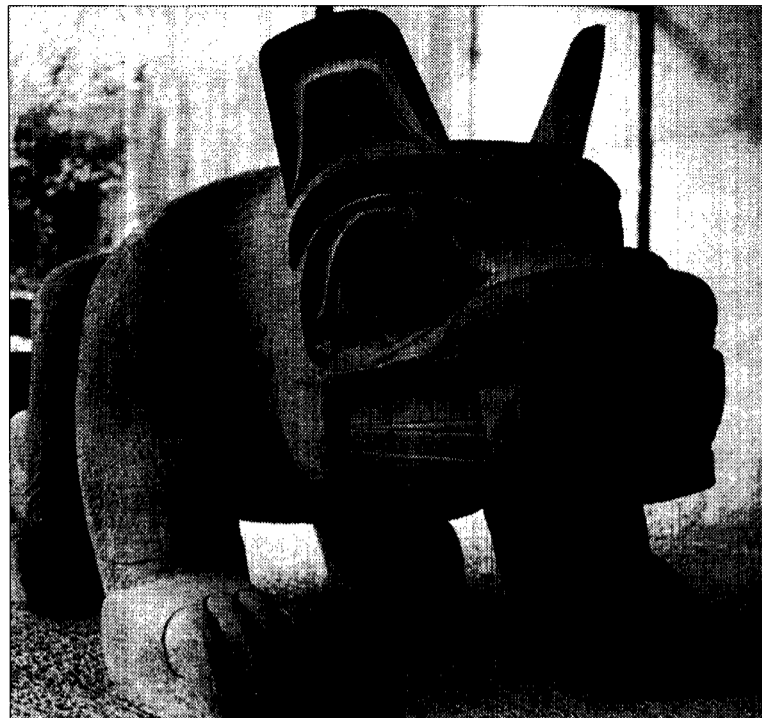
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Bill McLennan photo

Bearing Up

Sculpted by renowned Haida artist Bill Reid, this bear was once a magnet for grandchildren's play in philanthropist Walter Koerner's garden. Son Michael Koerner chose it to be featured in *Objects and Expressions*, a commemorative book published in honour of the museum's 50th anniversary. The book highlights favourite items from the museum's collection selected by fifty people associated with the museum over the years. The book is available in the museum's gift shop.

Quarterly takes first serious look at Nisga'a agreement

by Bruce Mason
Staff writer

In the midst of widespread interest, controversy and confusion concerning the historic Nisga'a Treaty, UBC's *BC Studies: The British Columbian Quarterly* has published the first serious look at the agreement.

"How we improve relations between Native peoples and others should receive the type of consideration this issue offers," says Geography Prof. Cole Harris, co-editor of the quarterly. "The treaty itself is an exceedingly important document which requires a broader view and deeper reflection than the popular media can provide."

There is widespread interest in the special issue. Among those who immediately ordered copies are Chief Joe Gosnell, president of the Nisga'a Tribal Council, the Ministry of Justice in Quebec and academics in Australia.

The edition begins, appropriately, with Gosnell's speech to the legislature on Dec. 2, 1998 — a compact and powerful statement of the treaty's meaning for his people.

Some contributors support the agreement. Hamar Foster, legal historian at the University of Victoria, provides a rich survey of the background. Charles Taylor, distinguished professor emeritus of Philosophy at McGill University, considers the propositions that it is racist and creates an unwarranted level of government. UBC Political Science Assoc. Prof. Sam LaSelva discusses the treaty in relation to Confederation and reflects on some of the fundamentals of this country, liberalism and the U.S.

Other contributors are critical. Gordon Gibson, senior fellow of the Fraser Institute, says the agreement stresses the collective at the expense of the individual, ignoring human nature and the lessons of history. Neil Sterritt, a Gitksan lawyer and a central figure in the long Delgamuukw land claims trial rejects it for very different reasons. He considers it a land grab.

The final word is given to the trickster Raven, as far as he can be caught and reported by John Borrows, an associate professor of Law at the University of Toronto.

"Because of the importance of treaty and the debate that surrounds it, planning for this edition began immediately after the signing on Aug. 4," says UBC Educational Studies Prof. Jean Barman, co-editor of *B.C. Studies*. "In short order, these seven authors have created an important collection of remarkable writing."

To order a copy of the special issue (\$10, plus \$2.50 postage), call (604) 822-3727. For more information check the Web site <http://www.interchange.ubc.ca/bcstudies>.

Engineer earns Killam Fellowship

UBC Chemical Engineering Prof. John Grace is one of 12 outstanding Canadian researchers to receive a Canada Council Killam Research Fellowship.

Killam Research Fellowships are among Canada's most distinguished research awards and enable Canada's best scientists and scholars to devote up to two years to full-time research.

Grace leads a team of faculty, graduate students, post-doctoral fellows and visiting scholars investigating the fundamentals and applications of fluidized beds.

The UBC team is one of the leading groups in the world studying and applying fluidization.

"This fellowship will allow me to spend additional time to work on aspects of fluidization that have not been studied very much because of their complexity," says Grace.

Fluidized beds are formed when a gas or liquid is passed upward through a bed of solid particles to support the weight of the particles.

Fluidization causes the particles to behave as if they are themselves elements of a fluid.

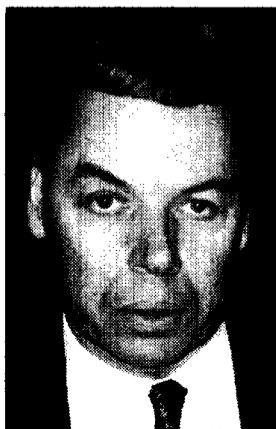
Fluidized beds are widely applied in industrial processes such as catalytic cracking of hydrocarbons used in making gasoline and other fuels.

Among the 14 researchers across Canada who have had their fellowships renewed for a second year is Prof. Richard Ericson, principal of Green College.

Ericson, a leading international socio-legal researcher is conducting a major research project on how governance is achieved through both public and private insurance mechanisms.



Grace



Ericson

People

by staff writers

Prof. **Derek Atkins** has been appointed associate vice-president, Planning. He will be involved with all aspects of academic planning within UBC, with particular reference to the new Academic Plan and Trek 2000. Atkins will report to Vice-President, Academic and Provost, Barry McBride as well as Vice-President, Research, Bernie Bressler.

Atkins has served as dean pro tem in the Faculty of Commerce and Business Administration for the past two years. He was also the associate dean and division chair in the faculty, as well as chair of the Senate Budget Committee. His expertise in research, teaching and consultancy has been in the area of operations, management and planning for a variety of organizations.

Atkins will begin the job later this month.

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Curriculum Studies Asst. Prof. **Kit Grauer** recently received the Pacific Region's Art Educator of the Year award from the National Art Education Association (NAEA) in Washington, D.C.

Grauer was recognized for her university teaching and for her extensive participation in art education locally, nationally and internationally.

Association president Michael Day said Grauer exemplifies the high quality of individuals involved in the field of art education today.

Grauer, winner of a UBC Killam Teaching Prize in 1994, is president of the International Society for Education through Art (InSEA), an organization that represents 88 countries.



Grauer

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Applied Science Dean **Michael Isaacson** and Civil Engineering Prof. **Liam Finn** have been named fellows of the Engineering Institute of Canada (EIC). They are among four engineers from Vancouver to earn the recognition for exceptional contributions to engineering in Canada.

Isaacson, a professor of Civil Engineering, joined UBC in 1976. His primary research interests are coastal and offshore hydrodynamics.

Finn, who joined the university in 1961, retired from teaching in December. His particular expertise is earthquake engineering design and offshore engineering, for which he is internationally renowned.

•••••

Prof. **Douglas Pulleyblank**, acting head of Linguistics, has been named a faculty adviser to the 52nd annual summer seminar of the World University Service of Canada (WUSC) in Zimbabwe.

A specialist in African languages, Pulleyblank and another adviser will accompany 20 Canadian students on a six-week study and research seminar in May.

The annual seminar counts many distinguished alumni, including former prime minister Pierre Trudeau, as well as many current UBC faculty and staff. More than 60 UBC students have participated



Pulleyblank

in the seminar since its inception.

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The American Institute of Aeronautics and Astronautics (AIAA) has presented Mechanical Engineering Prof. Emeritus **Vinod Modi** with its highest award of achievement.

Modi earned the 1999 AIAA Pendray Aerospace Literature Award "for his extraordinarily significant contributions to the literature of aerospace vehicle dynamics, controls and robotics, and for his pervasive academic impact upon several generations of dynamics and control students."

Modi is the first Canadian to receive the Pendray award which was created in 1951.

Love of learning

Asst. Prof. Inge Andreen teaches poor communities to learn for life



Susan Stern photo

by Susan Stern

Staff writer

It's no wonder that Inge Andreen is only the second person to receive the Canadian Association of Community Educators (CACE) Research Award in 14 years.

This cheerful, high-energy professional has criss-crossed Canada and the globe on a serious education mission to communicate the concept of community-based education.

In the process, Andreen, an assistant professor in UBC's Dept. of Curriculum Studies, has made a big difference in poor communities in Canada, Thailand, Malaysia, Vietnam, China, India, Africa, Costa Rica and the Caribbean.

In community-based education, the school is the centre of a community and it is responsible for the learning and teaching of everyone who lives there, no matter what age. Inclusion is the heart of Andreen's education philosophy.

"This means that all learners should be at the table," she says. "Everyone in the school and the community, should be involved in making decisions about their school and learning and working together to make their community a better place."

Andreen became interested in community-based education in 1976 after seeing community schools in action in Vancouver.

"I realized these schools embraced my philosophy of teaching and learning in living colour," she says.

A year later she became involved as a professor in the Community Education Teacher Education Program in the Faculty of Education.

Before she sets off to a new location, Andreen does what she calls 'front-end loading.'

"I learn about the place, the interests of the people and who will be involved so I won't be walking in blind," she says.

Sitting in her small cluttered office in the Scarfe building, Andreen rifles through a mountain of books, papers and photographs to illustrate her points.

Curriculum Studies Asst. Prof. Inge Andreen surrounds herself with some of the mementos she has collected on her global travels to teach community-based education in poor areas. From Myanmar to Newfoundland, she has devoted herself to the challenges of teaching others how to provide a vision for their community.

In a tiny remote community of 300 people on Newfoundland's south coast in which Andreen worked there was no village centre and no shops. The only local businesses included some farmers, a few contractors, a potter and a weaver.

The Belange Memorial School was the centre for residents who were scattered throughout the area. The school was near a wetlands area and that became the focus of Andreen's approach. Taking eco-tourism as the starting point, Andreen used the school to address the community's number one problem — 70 per cent unemployment.

"The idea is to show the community how they can stay in their community and earn a living with what they have around them," she says.

She introduced the school's teachers to on-going field studies. Students drew birds in the wetlands and studied their habits. It was their job to design walkways to protect the flora and fauna while taking advantage of the best views to attract visitors.

The students began to organize pioneer games to further enhance the attraction for tourists. Teachers had to learn the skills needed to work with

volunteers of all ages.

"It's a concept where science and social issues get together," she says. "You take traditional subjects, such as math and social studies and weave them into a common theme that solves common issues."

From the outposts of Newfoundland to the jungles of Costa Rica, Andreen thoroughly enjoys seeing communities develop, grow and thrive.

"It's a real challenge because each community is so different", she says.

In a remote Costa Rican jungle community, the challenge was safe drinking water.

"Waste water was boiled for drinking. They had no idea it was dangerous," she says. "In the school we told teachers and the students that diseases are caused by dirty water. Everyone — young children and adults — helped to build the water pumps."

And wherever she goes, Andreen tries to emphasize the role of women.

"As I get older I get more impatient when women are not recognized for the role they play in the community," she says. "I make a point of talking on birth control and parenting. It all has to be a community vision."

That's not always welcome with male

officials in developing countries, but Andreen talks about it anyway. And sometimes a respected foreign visitor can get the attention of the powers-that-be to help pave the way for local women.

Such was the case in Vietnam during a 3-week session on community-based schools. One of the few women in the Vietnamese government was so grateful she insisted Andreen accept a beautiful string of carved ivory beads that had been in her family four generations.

Andreen has also found appreciative women in the Caribbean islands of Nevis, Dominica, Barbados, Grenada and Guyana on the South American mainland.

That's the good part. Andreen has also experienced frustration.

"Usually the most disappointing thing is the tendency of governments to send totally unsuitable people to the training sessions or conferences," she says.

And there's been some risk.

During a trip to Myanmar, Andreen posed as a tourist with her two children in order to spend five days in clandestine meetings with 20 teachers explaining the concept of community-based schools.

"People were receptive to the idea that women and elders should play a role. But if the military regime had found out, I would have been in big trouble," she says.

After teaching at UBC for 34 years and winning UBC's Killam Teaching Prize, Andreen will formally retire from UBC on the last day of the century, Dec. 31, along with her sister, Dr. Peggy Ross, who is an associate dean of Medicine at UBC. Andreen says she is ready. But journeys to the far corners of the earth to impart the usefulness of community-based education will continue.

"It's my volunteer work," she says. "I see myself as a teacher. And community-based education offers all of the challenges of being a good teacher — of knowing who your audience is and selling them on their ability to provide a vision for their community," she says.