

UBC REPORTS

Volume 43, Number 21

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Stephen Forgacs photo

Cookie Classics

Food Services staff Irena Stec and commissary baker Tom Zorbakis show off some of the thousands of baked treats prepared by Food Services for the holiday season. This year, the bakery, located in the Totem Park residences, will produce 15,600 shortbread cookies, 2,400 rumballs, 6,000 bars, 3,000 gingerbread cookies, 15,600 tarts and 90 kilograms of Christmas cake. The baked goods are available for purchase by phone at 822-6828, or in person at the Pacific Spirit Place Cafeteria in the Student Union Building Monday to Friday from 11:30 a.m. to 2 p.m. Orders must be placed by Dec. 16.

Piper calls campus post-APEC forum for Jan. 20

UBC will hold a post-APEC forum on Jan. 20, 1998 in the Chan Centre for the Performing Arts.

"We should take the opportunity offered by the APEC experience to reflect on the values of a democratic society and on the role of universities within such a society," said President Martha Piper in a letter to campus following the Nov. 25 APEC Economic Leaders' Meeting, which was hosted by the federal government at the Museum of Anthropology.

Piper has offered funding to each of UBC's two student organizations, the Graduate Student Society and the Alma Mater Society. The \$5,000 given to each group is "to support UBC students and is available to fund research, legal or otherwise, on the events of Nov. 25."

UBC is also supporting a request by Vancouver-Quadra MP Ted McWhinney to the Solicitor General to undertake an enquiry or review of police actions once the RCMP's internal report is forwarded to the government.

Piper's Nov. 26 letter to campus also

reaffirmed the university's position in light of the demonstrations which took place on campus during the leaders' meeting.

"The University of British Columbia upholds the right of all to express their views freely and engage in peaceful demonstrations. Should any members of the UBC community feel that these rights were denied during the recent demonstrations, we encourage them to bring their concerns to the attention of the university, care of Dennis Pavlich, associate vice-president, Academic and Legal Affairs," she wrote.

More than 90 messages ranging from expressions of concern regarding police action to comments on the proposed post-APEC forum have been received to date.

UBC will review its agreement with the federal government to determine whether there was any breach of obligation on the part of the government with respect to security issues outlined in the agreement. Part of the review will include the submissions received from campus as well as a detailed report from the RCMP.

Life scientist wins prestigious Steacie

by Stephen Forgacs

Staff writer

Terry Snutch, a professor in UBC's Biotechnology Lab, has won the Steacie Prize, Canada's most prestigious award for young scientists and engineers.

The \$10,000 award comes in recognition of Snutch's outstanding research into the function of calcium channels in the human body.

"Receiving the Steacie Prize was not something I ever expected, it was a complete shock," says Snutch. "I'll be holding a party for my lab to

celebrate because an award like this is rarely the result of one individual's efforts. The credit goes to my entire team."

Snutch is the seventh UBC researcher

to win the prize since its inception in 1964, and the first in the life sciences field.

The prize is awarded annually to a person no older than age 40 by the

E.W.R. Steacie Memorial Fund. The prize is named in memory of E.W.R. Steacie, a physical chemist and former president of the National Research Council (NRC) of Canada, who is recognized for his strong support for the development of science in Canada.

"Terry Snutch's research program is generating results that have already had a major impact on his field and hold great promise for the

treatment of many serious human ailments," says Bernie Bressler, UBC's vice-president, Research.

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Snutch

Think About It sales to support students

Wondering what to buy for Christmas?

The UBC Bookstore wants you to "Think About It."

In particular, Western Canada's largest bookstore wants people to consider purchasing umbrellas, hats, mugs and T-shirts adorned with the "Think About It - UBC" slogan.

"Certainly, the baseball caps circulated by Martha Piper at her installation in September were a huge hit," says Bookstore Director Debbie Harvie. "These Think About It items we're selling are a start. Hopefully, we can add more merchandise to the Think About It line in the future."

Harvie said that 10 per cent of proceeds raised from the sale of Think About It products will be used to

support student education and student research programs at UBC. Harvie credits Bernie Bressler, UBC vice-president, Research, for the value-added idea.

Bressler, who recently launched the public awareness campaign *Think About It - UBC Research*, said the message has been well received by people on- and off-campus.

"The fact is that people don't stop and think enough about the truly excellent research that is being undertaken here at this university and what it means to our economy and quality of life," says Bressler.

Bressler says his office has been contacted by numerous academic

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"birth defects
can be prevented"

JUDITH HALL

HEAD, Dept. of Pediatrics at UBC
and BC's Children's Hospital

THINK
About It.

UBC RESEARCH

Letters

Don't forget farming: dean

Editor:

I was delighted with the write-up on the Faculty of Agricultural Sciences in the recent *UBC Reports*, but not with the unfortunate front-page index entry.

As much as I enjoy the fun of alliteration in headlines, in this case the effect was to contradict our work, purposes and intentions.

We must remember our roots — which are the land, farming and agriculture. We need to identify critical agricultural issues, and promote creative and exciting solutions through our diversified re-

LETTERS POLICY

UBC Reports welcomes letters to the editor on topics relevant to the university community. Letters must be signed and include an address and phone number for verification. Please limit letters, which may be edited for length, style and clarity, to 300 words. Deadline is 10 days before publication date. Submit letters in person or by mail to the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, by fax to 822-2684 or by e-mail to janet.ansell@ubc.ca.

search and educational resources. We want to cooperate with all of our communities and constituencies, especially the farming community.

The new direction of the Faculty of Agricultural Sciences must be about the support of all initiatives that work towards sustainable land, food and community systems.

**Moura Quayle, Dean
Faculty of Agricultural
Sciences**

Student protesters made us proud, says staff member

Editor:

I think that the university should be proud of its students who drew national and international attention by demonstrating against APEC.

I spent two hours standing at the front of the demonstration on Main Mall and was witness to the response by the various police forces to the peaceful and well organized opposition to APEC. Their response was unnecessary violence and the cries of "shame" were well placed. Dogs, horses, pepper spray, guns, snipers — enough force to put down a small uprising and totally inappropriate to peaceful protest in a democratic country. As was demonstrated throughout the hosting of APEC, democracy is fragile and we need to be vigilant. I have to admit some surprise at the lack of presence by the unions on campus and the faculty association. Solidarity with other workers and support for academic freedom I would have thought fundamental to a free-thinking university. Democracy becomes more fragile in the face of complacency and apathy.

I have worked on campus for over 20 years and was a student in the early '70s. This kind of action by the students is welcome and should be encouraged and I personally want to thank them.

**Jo Hinchliffe
Women's Studies Centre**

Snutch

Continued from Page 1

Snutch and his research team investigate how calcium gets in and out of the brain's 100 billion nerve cells, or neurons, and triggers electrical and chemical signals en route. Calcium plays a positive role as a messenger between neurons that control skeletal, heart and smooth muscle contraction, hormone secretion and all electrical signaling in the central nervous system. However, too much calcium entering a cell, through what are known as calcium channels, can be toxic.

Snutch's research during the last eight years has led to a number of major breakthroughs. He has identified and cloned five genes encoding the channels that regulate calcium entry into brain cells. Some of these genes are also turned on in the heart. In fact, Snutch believes that there may be as many as a dozen types of calcium channels, controlling different functions in different parts of neurons and different types of cells.

Snutch's research holds promise for the creation of novel drugs to treat cardiovascular disorders including hypertension, angina and certain arrhythmias. Migraine headaches and some forms of epilepsy are other disorders also shown to involve calcium entry into cells.

Processes developed in his lab have enabled scientists to study channels and all their properties outside the brain and to use this information to design and screen for drugs that can either block or excite certain channels by themselves without risk of affecting other channels.

One of the channels that Snutch cloned is blocked by a toxin that a Micronesian cone snail uses to paralyze its prey. The toxin also blocks channels involved in strokes and pain transmission. A drug company in the U.S. has taken this information and is developing a pain reliever reported to be a thousand times more sensitive than morphine.

Since his arrival at UBC in 1989, Snutch has accepted a steady stream of provincial, national and international research awards. These include the Killam Research Prize (1991); Alfred Sloan Research Fellowship (1991-93); International Research Scholar, Howard

Hughes Medical Institute (1991-96); Outstanding Academic Alumni Award, Simon Fraser University (1994); Medical Research Council of Canada Scientist Award (1995-2000); and the 1996 International Albrecht Fleckenstein Award.

Think

Continued from Page 1

units on campus requesting information on how to adapt the slogan to their own area. He says academic departments, faculties or programs can place custom orders for Think About It products through the Bookstore with 10 per cent of the ticket price going to support student initiatives.

Bressler urged people on campus to help spread the Think About It message by referring to the slogan whenever and wherever possible. The Think About It logo can be downloaded from the campaign Web site at www.research.ubc.ca.

Edwin Jackson

Best Wishes for the Christmas, Hanukkah and Holiday Season!

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THE UNIVERSITY OF BRITISH COLUMBIA

First Nations House of Learning Director

The University of British Columbia is seeking a Director for the First Nations House of Learning. The House of Learning, housed in a spectacular longhouse, is known for its unique approach to making the University's vast resources more accessible to First Nations peoples and their communities. It is committed to excellence and is dedicated to quality post-secondary education relevant to the philosophy and values of First Nations.

The House of Learning serves to encourage the development of courses and programs; to facilitate cultural relevance; and to provide a variety of student services. Programs offered by the University's faculties include, but are not limited to, the Native Indian Teacher Education Program (NITEP), Ts'kel graduate studies, First Nations Legal Studies, First Nations Health Careers, and initiatives in the Faculties of Arts, Forestry, Applied Science, Agricultural Sciences, Science, Commerce and Business Administration and Graduate Studies, as well as general involvement with all areas of post-secondary education.

The successful candidate will have substantial experience with First Nations cultures and in higher education. For an external appointee, a faculty or staff appointment may be arranged with an appropriate department. The appointment is for a five-year term, and the successful candidate is expected to take office July 1, 1998.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents of Canada.

The position profile is available on request from the address below. Applications and nominations will be received until January 15, 1998 or until the position is filled, and should be forwarded to Dr. Daniel R. Birch, Vice President, Academic and Provost, and Chair of the Search Committee, 6328 Memorial Road, Vancouver, B.C. V6T 1Z2, or by e-mail to passmore@unixg.ubc.ca.

Snow?



"The University will remain open during snow storms but may cancel or reschedule classes on a university-wide basis and/or curtail non-essential services in response to the conditions."—UBC Policy on Disruption of Classes/Services by Snow, May 1994

In the event of extreme snow conditions, listen to CBC Radio, CKNW and other local radio stations for information.



UBC REPORTS

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

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

Contributors: Stephen Forgacs (stephen.forgacs@ubc.ca),

Sean Kelly (sean.kelly@ubc.ca),

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

Gavin Wilson (gavin.wilson@ubc.ca).

Editorial and advertising enquiries: (604) 822-3131 (phone), (604) 822-2684 (fax). UBC Information Line: (604) UBC-INFO (822-4636)

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Sean Kelly photo

It's A Wrap

First-year Science student Brian Nguyen, second-year Pharmaceutical Sciences student Pamela Liu, and first-year Arts student Carie Siu (right), wrap gifts at the UBC Bookstore. The holiday gift-wrapping service, with volunteer staff accepting donations to the campus United Way campaign, will be offered at the UBC Bookstore Dec. 13 from 11 a.m. - 3 p.m. UBC faculty, staff and students have raised more than \$255,000 since October. The United Way campaign officially ends Dec. 15.

Traffic ideas flow in, lead to transit passes

Since Gordon Lovegrove started his job as UBC's new director of Transportation Planning, he's received a steady stream of suggestions from the community on and off campus.

"The suggestions are really helpful," he says. "And now that BC Transit is offering a month's free transit to the person who comes up with the best suggestion for improving transportation options to UBC or reducing the number of single-occupant vehicle trips to and from campus, I expect that people will be putting even more thought into the transportation challenges we face."

Computer Science PhD student Andreas Siebert won a one-month BC Transit pass for his suggestion that special road markings be placed at the intersections of 16th Ave. and Wesbrook and East malls to let vehicle drivers know they are crossing a bike lane when they turn left. Lovegrove will follow up on the suggestion with the Ministry of Highways.

So far, the suggestions show that cyclists are among the most vocal proponents of change. Of the 36 suggestions he received

last month, 20 were related to bike facilities, from bike racks to bike lanes.

"We are really trying to raise awareness and encourage the involvement of everyone regarding UBC transportation issues, including students, faculty, staff and people in the community who are affected by campus traffic," Lovegrove says.

Lovegrove is also creating a transportation Web site to promote interaction and to help keep the community informed of transportation-related developments. The Web site is the focus of yet another contest for a free one-month transit pass. It needs a catchy name that ties in with the theme of transportation, says Lovegrove, and again he's turning to the community for help.

"The university means business. We'll be implementing a process that will involve all stakeholders and should get underway early in 1998. In the meantime, the more suggestions I receive, both for a Web site name and dealing with campus transit issues, the better."

Lovegrove can be reached by phone at 822-1304, by fax at 822-3250, and by e-mail at gord@plantops.ubc.ca.

Scholar aims to lessen First Nations suicide rate

by Gavin Wilson

Staff writer

A UBC counselling psychology professor has taken a different approach in his research on suicide among First Nations youth.

Instead of focusing on the problems that troubled young people, Asst. Prof. Rod McCormick wanted to discover what life-affirming experiences pulled them back from the brink of taking their own lives.

Now he is using his findings to develop workshops he hopes will help prevent suicide among First Nations youth. The suicide rate for First Nations people aged 10-25 is as much as eight times higher than that of non-First Nations young people.

"The problem of suicide among First Nations youth has been well documented. The time has now come for First Nations people to look for the solutions," says McCormick, who is of the Mohawk First Nation.

"Very little attention has been given to research that focuses on the healing practices used by First Nations people. In particular, what do we know about the healing practices that work for First Nations youth who are suicidal?"

During the course of his research, McCormick interviewed 25 First Nations people who told him of their own feelings of suicide during their youth and the experiences of healing and recovery that saved them.

McCormick recorded almost 300 events that led to recovery and organized them into categories. The largest of the 22 categories were events that increased the young persons' self-esteem and self-acceptance.

Experiences that helped participants in the study feel loved, respected, acknowledged and valued increased their self-esteem, which in turn allowed them to explore alternatives to suicide.

Having another person concerned enough to ask what is wrong was another critical point that started some of the participants on their path to healing. They described the powerful effects of being understood and listened to, being accepted, supported and encouraged.

"Many suicidal youth simply want to feel connected with someone or something that is meaningful to them," McCormick says.

Other sources of this included connection to culture and tradition, spiritual connection, connection to nature, and participation in ceremony.

McCormick hopes to translate his healing categories into strategies that will provide First Nations communities with ways to reduce the incidence of suicide. He is currently working on a suicide prevention workshop with funding from the First Nations Wellness Society.

The key to future solutions, he says, is for health researchers and practitioners to ask First Nations youth what works best for them.

Dog video test to raise student project funds

by Hilary Thomson

Staff writer

Psychology Prof. Stanley Coren has gone to the dogs and he's taking the Dept. of Theatre, Film and Creative Writing with him.

Together they've produced a video, *The Intelligence of Dogs*, which builds on the popularity of Coren's 1994 book on the subject, now in its 16th printing.

Designed to help dog owners better understand their pets, the video guides owners through a series of simple dog intelligence tests that can be completed at home. Proceeds from sales of the video will be used to purchase equipment, and fund graduate student travel and chairs in both departments.

"All faculties are challenged to find funding these days," says Psychology Dept. head Tony Phillips. "We immediately saw the commercial potential of a fun video about dogs."

John Wright, head of the Theatre, Film and Creative Writing Dept., says he jumped at the chance to be involved with the video. It was produced by a team of eight students in the department and directed by graduate student Pat Harrison.

"I'm known as the dog person of the department," says Harrison. "I love dogs and this is my third major dog project."

Starring in the video are 22 dogs belonging to members of the faculty and the community, including Coren's own dogs, Odin, a flat-coated retriever and Wiz, a King Charles spaniel.

Coren hosts the show, giving a step-by-step explanation of 12 tests designed to measure dogs' adaptive intelligence or learning that fits a particular situation. In other words, canine street smarts.

The dogs show viewers how it's done, demonstrating the range of intelligent responses.

To test problem-solving, for instance, a leashed dog watches its owner place a treat under a tin can. The dog is then released and timed on how long it takes him to recover the treat.

The language comprehension test has the owner address the dog in the customary tone while substituting an irrelevant word for the pet's name. The intelligent dog ignores the command "Here, refrigerator!", and waits to be personally addressed.

The video also shows how to measure observation, social learning and memory in a variety of tests using simple props such as furniture, towels and, of course, dog treats.

The time it takes to complete the task earns the dog a score on a five-point scale. The dogs don't seem too concerned about their performance, however. To them, it's just another game.

Most dogs have an intelligence roughly equivalent to that of a two-year old child, Coren says. Dog breeds known to have high adaptive intelligence include border collies, poodles, German shepherds, retrievers and Dobermans.

Dogs chewing at the short end of the intelligence stick are bulldogs, basenjis (an African hunting dog) and the beautiful but less than brainy Afghan.

So what if your pooch flunks the IQ test? Coren says talking to your pet, and naming actions and objects, helps them identify words with activities and develops their adaptive intelligence.

"Most of my dogs haven't even been in the top 50 per cent of intelligent breeds," says Coren, who is a trainer at the Vancouver Dog Obedience Training Club. "But they were all loyal, loving, playful companions — wonderful pets."

The video costs \$19.95 and is available at UBC Bookstore or by calling the Dept. of Psychology at (604) 822-3244.

Correction

In the Nov. 27 issue of *UBC Reports*, the Centre for Applied Ethics should have been identified as part of the Faculty of Graduate Studies. Assoc. Prof. Wayne Norman spends the majority of his time with the Centre for Applied Ethics and the remainder in the Faculty of Commerce and Business Administration.

Grad named B.C.'s Rhodes scholar

UBC graduate John McArthur has been awarded the 1998 Rhodes Scholarship for B.C.

McArthur graduated from UBC in 1996 with a BA in political science. He is now studying for a master's degree in public policy at the Kennedy School of Government at Harvard University.

The Rhodes Scholarship provides all expenses for two years of study at Oxford University, with an option for a third year. Eleven Rhodes Scholarships are awarded in Canada each year, one of which is allocated to B.C.

McArthur intends to pursue a law degree at Oxford.

At Harvard, he is involved in rowing and edits the international section of the *Citizen*, a campus newspaper. In the summer

of 1997 he worked in Washington D.C. for the Canadian embassy as a liaison officer to the World Bank.

While at UBC, McArthur won the Alumni Association's outstanding student award and was named a Wesbrook Scholar for finishing in the top 10 per cent of his class and demonstrating an ability to serve, work with and lead others.

His athletic career at UBC included four years with the Thunderbird swim team. As well, he volunteered with the Immigrant Services Society of B.C.

The Rhodes scholar requires a high level of scholastic achievement, success in sport, strong qualities of leadership and character and demonstrated public service.



McArthur

Calendar

December 14 through January 10

Monday, Dec. 15

Biochemistry and Molecular Biology Discussion Group Seminar

Theoretical Aspects Of Electron Transfer in Metalloproteins. Scott Northrup, Chemistry, Tennessee Technological U. IRC#4 at 3:45pm. Refreshments at 3:30pm. Call 822-3178.

Green College Resident Speaker Series

Taxation By The Australian States. Bernie Walrut, Fisheries Centre. Green College at 5:30pm. Call 822-1878.

Wednesday, Dec. 17

Orthopedics Grand Rounds
Central Cord Syndrome. Dr. Michael Goytan, Orthopedics. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

Trekkers Restaurant

Trekkers Christmas Lunch. Featuring Christmas salad, roast turkey with trimmings, cranberry cheesecake, coffee, tea or egg nog. Trekkers Restaurant, David Lam Research Centre from 11am-2:30pm. \$9.95 plus GST. Call 822-3256.

The Express

Christmas Special. Trekkers Restaurant, David Lam Research Centre from 11am-2:30pm. \$5.25. Call 822-3256.

Royal Society of Canada

Luncheon With Guest Speaker. Green College Great Hall at 12:30pm. \$15. To register call Stephen Calvert 822-5210.

Friday, Dec. 19

Pediatric Grand Rounds

I Got It From The Net: How To Deal With The Internet In Pediatric Practice. Dr. Peter MacDougall, Pediatrics. GF Strong Aud. at 9am. Call 875-2307.

Saturday, Dec. 20

Concert

Chan Centre For The Performing Arts Celebrates Christmas. Vancouver Chamber Choir; Ed Henderson and Friends; William B. Davis; Jon Washburn, conductor. Chan Centre at 8pm. \$25 adults; \$15 students/seniors; \$10 children 12 and under. Tickets available through Ticketmaster or at the door. Call 280-3311.

Sunday, Dec. 21

Concert

Chan Centre For The Performing Arts Celebrates Christmas. Vancouver Chamber Choir; Ed Henderson and Friends; William B. Davis; Jon Washburn, conductor. Chan Centre at 2pm. \$25 adults; \$15 students/seniors; \$10 children 12 and under. Tickets available through Ticketmaster or at the door. Call 280-3311.

Wednesday, Dec. 24

Christmas Eve Brunch

Trekkers Christmas Eve Brunch. Trekkers Restaurant 8am-1pm. Call 822-3256.

Friday, Dec. 26

Pediatrics Grand Rounds

Grand Rounds Cancelled.

Sunday, Dec. 28

UBC Men's Volleyball

Rucanor Thunderball XII. War Memorial Gym from 5:30-7:30pm. Continues to Dec. 30. Call 822-2473.

UBC Men's Hockey

Father Bauer Hockey Classic. Thunderbird Winter Sports Centre at 7:30pm. Continues to Dec. 30. Call 822-2473.

Friday, Jan. 2

Pediatrics Grand Rounds

Grand Rounds Cancelled.

Tuesday, Jan. 6

Metals And Materials Engineering Seminar

Advanced Refractory Ceram-Concrete. Florin Esanu. Frank Forward 317 from 3:30-4:30pm. Call 822-1918.

Wednesday, Jan. 7

Orthopedics Grand Rounds

Allografts In Revision Hip Arthroplasty. Dr. Don Garbuz, Orthopedics; Dr. Robert Kerry, Orthopaedics. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

Centre For Southeast Asia Research Seminar

Cleaning Up Doi Moi - Can Regulation And Good Governance Promote Environmental Values In Vietnam? Ian Townsend-Gault, Director, Centre for Asian Legal Studies, Law. CK Choi 120 from 12:30-2pm. Call 822-2629.

The Interdisciplinary Seminar

"What's In A Name?" Questioning Globalization. Victor Li, English, Dalhousie University. Green College at 5pm. Call 822-0549.

Thursday, Jan. 8

Science First! Lectures:

Exploring The Brain

Development: How To Get Wired. Vanessa Auld; Timothy O'Connor; Jane Roskams. Westbrook 100 from 12:30-1:30pm. See Web site at www.science.ubc.ca/seminars/seminarseries.html. Call 822-5552.

Science And Society

What? The First Of Three Lectures In The Series: The Social Construction Of What? Ian Hacking, Philosophy, U of Toronto. Green College at 5pm. Call 822-1878.

Poetic Persuasions

Open Reading. Green College at 7:30pm. Call 822-1878.

Friday, Jan. 9

Pediatrics Grand Rounds

Inhaled Corticosteroids In Children: How Much Is Too Much? Prof. Alexander C. Ferguson, Pediatrics. GF Strong Aud. at 9am. Call 875-2307.

Health Care And Epidemiology Rounds

Does Health Care Decrease Mortality In Rich Countries? Dr. Stephen Bezručka, U of Washington. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Law And Society Seminar

For The Liberal Treatment Of Indians: Indians In 19th Century Canadian Law. Sid Harring, City U of New York. Green College at 12:30pm. Call 822-1878.

Chemical Engineering Weekly Seminar

Computer Based Learning Initiatives In Engineering At The University Of Ottawa. David Taylor, U of Ottawa. ChemEng 206 at 3:30pm. Call 822-3238.

GIVE SOMEONE A SECOND CHANCE.

Please give generously.



THE KIDNEY FOUNDATION OF CANADA

City Seen

"House in Strathcona Alley, Vancouver, B.C., 1995" is one of a series of transmounted colour photographs by Vancouver artist Roy Arden now on display at the Morris and Helen Belkin Art Gallery. Arden's photographs depict scenes of urban decay alongside recent changes to the urban landscape, such as monster houses. The exhibition continues until Dec. 21 and resumes Jan. 2-25. Call the gallery at 822-2759 for hours.



Roy Arden photo

Notices

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 15 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 Werker's Infant Studies Centre, Psychology, 822-6408 (ask for Monika).

UBC Medical School

Needs male and female volunteer patients of any age, either healthy or ill to help students learn how to interview and complete a physical examination (external only). The total time for each teaching session is between two-four hours, Tues-Thurs. pm. Travel expenses will be paid. Call Vancouver Hospital/HSC 875-5943.

Museum of Anthropology

Current Exhibits. Written In The Earth. An exhibit exploring the roots of Coast Salish Art. Continues to Dec. 31. From Under The Delta: Wet-Site Archaeology In The Lower Fraser Region Of BC. Continues to April 1/98. 6393 N.W. Marine Drive. Hours of operation are Wednesday-Sunday 11am-5pm. Tuesday 11am-9pm (free 5-9pm). Call 822-5087.

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 forty five minute visit please call Dr. Geoffrey Hall's Language Development Centre, Psychology at UBC, 822-9294 (ask for Kelley).

Boomerang Family Research

Adults who have returned home to live and their parents are invited to participate in a study focusing on the experience, inter-personal relations and responses to this change in the family. Involves confidential interviews. Three chances to win \$100 in research raffle. Please call Michele at 269-9986.

Parents With Adolescents

Are you interested in learning how family conversation and activities are integral to the career development of your adolescent? We are inviting mothers and fathers with their 14/15 year old(s) to come to UBC to participate in parent-adolescent conversations about career. Follow-up for 6 months. \$100 honorarium paid. Please call Dr. Richard Young's project team, Counselling Psychology Dept. 822-3985.

Art Exhibition

Roy Arden, a selection of works from 1991-97. Arden's subject is the landscape of the economy, as it appears through the everyday surface of his local surroundings. Morris and Helen Belkin Art Gallery. Tues-Fri 10am-5pm; Sat-Sun 12-5pm. Continues to Dec 21; Jan 2-25/98. UBC students, staff, faculty free with valid ID. Call 822-2759.

Children's Art Program

The UBC Department of Curriculum Studies - Art Education invites children 7-10 to participate in a unique visual art program at the UBC Child Study Centre Mondays 5-6:15pm; Feb 2-Mar 30/98. Call 822-5321.

Art Exhibition

Recalling The Past: A Selection Of Early Chinese Art From the Victor Shaw Collection. MOA Dec 2 - Aug 31, 1998, Wed-Sat 11am-5pm; Tues 11am-9pm. Call 822-5950.

Research Study

Relationship Study. Hetero 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 Food Services Christmas Hours of Operation

Dec. 14-Jan. 5, 1998. Barn Coffee Shop, Dec. 14-19 from 7:30am-3:30pm; YumYum's closed; Pacific Spirit Place Cafeteria from 7:30am-2pm; Trekkers Restaurant Dec. 15-23 from 11am-2pm; Dec. 24 from 8am-1pm; The Express at Trekkers Dec. 15-19 from 7:30am-4:30pm, Dec. 22-23 from 7:30am-3:30pm; Dec. 24 from 7:30am-2pm; Dec. 29-31 from 8am-2pm. For a complete list call 822-3663 or visit web site at www.foodserv.ubc.ca.

Volunteers Needed

To play the part of a patient in a clinical exam Jan. 16, 1998. Potential Rehabilitation Science students welcome. Please call 822-7392.

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: 822-3131. Fax: 822-2684. An electronic form is available on the UBC Reports Web page at <http://www.ubc.ca> under 'News.' Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the January 8 issue of UBC Reports - which covers the period January 11 to January 24 - is noon, December 29.



STUDENT DISCIPLINE REPORT

Under section 58 of the University Act the President of the University has authority to impose discipline on students for academic and non-academic offences (see page 19 & 20 of the 1997/98 University Calendar). A summary of such disciplinary cases is published on a regular basis, without disclosing names of students involved.

In the period Sept. 1 1996 to Aug. 31 1997, 23 students appeared before the President's Advisory Committee on Student Discipline and 20 were subsequently disciplined. For each case, the events leading to the imposition of the discipline and the discipline imposed are summarized below. Discipline may vary depending upon the circumstances of a particular case.

1. A student failed to disclose prior attendance at another University when applying for admission to UBC.
Outcome: in the special circumstances, a letter of advice.
2. A student failed to disclose prior attendance at another University when applying for admission to UBC.
Discipline: in the special circumstances, a letter of reprimand.
3. A student committed plagiarism in an essay.
Discipline: in the special circumstances, a mark of zero in the course and suspension from the University for 5 months.*

4. A student had improperly and inappropriately used the University's name in pursuit of a personal and private venture.
Discipline: in the special circumstances, a letter of reprimand.
5. A student alleged to have been involved in a cheating incident in a course did not respond to repeated attempts to Advise for a hearing before the Advisory Committee on Student Discipline.
Discipline: future registration blocked until the student appears before the Committee and notation on transcript to this effect; final mark in course withheld pending outcome of any future hearing.
6. A student committed plagiarism on a paper in a seminar course.
Discipline: in the special circumstances, a mark of zero in the course and letter of reprimand.*
7. A student's conduct at the close of an examination was careless and inappropriate.
Discipline: a letter of reprimand.
8. A student was alleged to have been involved in a cheating incident on a final examination.
Outcome: charge dismissed; allegation could not be substantiated on consideration of all available evidence.
9. A student was involved in a cheating incident on a final examination.
Discipline: a mark of zero in the course and suspension from the University for 12 months.*
10. A student submitted a fraudulent transcript and letter of recommendation when applying for admission to UBC.

11. A student was alleged to have cheated in a final examination.
Outcome: charge dismissed; allegation not substantiated on consideration of all the evidence.
12. A student committed plagiarism in a course assignment.
Discipline: a mark of zero in the course and suspension from the University for 8 months.*
13. A student committed plagiarism in a course assignment.
Discipline: a mark of zero in the course and suspension from the University for 8 months.*
14. A student was involved in cheating incident on a mid-term examination.
Discipline: a mark of zero in the course and a suspension from the University for 8 months.*
15. A student committed plagiarism in a joint paper for a course.
Discipline: a mark of zero in the course and a suspension from the University for 12 months.*
16. A student altered a UBC transcript for personal gain.
Discipline: a suspension from the University for 12 months.*
17. A student was involved in a cheating incident on a final examination.
Discipline: a mark of zero in the course and a suspension from the University for 12 months.*
18. A student was involved in a cheating incident on a mid-term examination.
Discipline: a mark of zero in the course and a suspension from the University for 12 months.*

19. A student was in possession of unauthorized material during a final examination.
Discipline: in the special circumstances, a mark of zero in the course and a suspension from the University for 4 months.*
 20. A student committed plagiarism on an essay.
Discipline: in the special circumstances, a mark of zero in the course and suspension from the University for 5 months.*
 21. A student failed to disclose prior attendance at another University when applying for admission to UBC.
Discipline: in the special circumstances, a letter of reprimand.
 22. A student wrongfully submitted an examination under a false name and attempted to benefit from the results of an impersonation.
Discipline: a mark of zero in the course and suspension from the University for 12 months.*
 23. A student was in possession of unauthorized material during a final examination.
Discipline: a mark of zero in the course and a suspension from the University for 12 months.*
- * In all cases indicated by an asterisk is entered on the student's transcript. At any time after two years have elapsed from the date of his or her graduation the student may apply to the President to exercise her discretion to remove the notation.
- Students under disciplinary suspension from UBC may not take courses at other institutions for transfer of credit back to UBC.

Dentistry clinic gets tough with bad breath

by Hilary Thomson
Staff writer

Secretly worried about your breath? No more. A scientific analysis is now available at B.C.'s first breath testing clinic in UBC's public Dental Clinic.

"Although breath testing devices are becoming fashionable, most are not accurate," says orate biologist Don Brunette, who is associate dean in the Faculty of Dentistry. "This clinic provides an objective measure for people concerned about their breath."

Bad breath is more than a cosmetic concern. Measuring levels of certain chemicals in breath is useful in diagnosing a variety of conditions, including illnesses of the liver, lung or gastrointestinal tract, says Brunette.

The clinic is the only one in Canada to use gas chromatography as a measuring device. Pioneered by Prof. Emeritus Joe Tonczet when he joined the faculty in 1968, the system is too complex to be widely available but is unique in providing a precise reading of sulphur compounds, high levels of which are the basis of halitosis, or bad breath.

Using a syringe, an exact volume of air is sucked out of the patient's mouth and introduced into the chromatograph. The machine measures and records amounts of two sulphur compounds — hydrogen sulphide and methylmercaptan. The clinic's director, Ken Yaegaki of the Dept. of Oral Biological and Medical Sciences, interprets the numeric information.

"I already have medical and dental information about the patient from our interview before the test. The chromatograph readings give me detailed scientific information to add to those data," he says.

Yaegaki also conducts a subjective test by sniffing the patient's breath. The

patient sits behind a screen and exhales into a tube while Yaegaki assesses it from the other side.

Yaegaki, who is an internationally recognized researcher in breath malodour, offers patients a treatment plan and evaluates the effect of any control measures. If the cause of the odour is unrelated to dental or oral physician, patients are referred to their physician.

"There are a variety of causes of bad breath," says Yaegaki. "The most common is tongue coating, gum disease or throat inflammation. Illnesses such as sinusitis and some medications can also create bad breath."

For anyone concerned about bad breath, Yaegaki recommends cleaning the tongue, especially the back portion. This reduces any coating that may be producing bacteria which, when exposed to air, decompose and smell bad.

Special tongue brushes, with a short handle like a toothbrush and a tiny crescent of bristles at one end, are widely available in Japan and allow for scrubbing the back of the tongue without creating a gag response.

Mouthwashes can provide a masking effect for up to an hour but no real remedy, according to Yaegaki. The most effective mouthwashes contain zinc or hydrogen peroxide. These ingredients can inhibit the sulphur compounds produced by mouth bacteria.

The first visit to the clinic takes about one hour and costs \$150. If measurement shows significant breath odour, a second visit costing \$200 and lasting about three hours is scheduled to determine its possible cause. Subsequent visits cost \$50 each.

The clinic is open Monday and Friday mornings. Individuals may make clinic appointments by calling 822-8028.



Hilary Thomson photo

CBC Radio host Arthur Black (right) drops by for a halitosis check from Faculty of Dentistry's Ken Yaegaki, director of UBC's new Breath Testing Clinic. Black was taping a segment on the clinic for his show Basic Black. Besides the subjective evaluation shown here, breath is tested using a gas chromatograph, a device which measures sulphur compounds in breath.

New position focuses on geriatrics research

How we treat elderly people ties in to how we value them and the values we hold generally in our society, says Pamela Brett, geriatrics researcher in the Dept. of Family Practice.

A new position within the division of Community Geriatrics, Brett's job will be to develop a research mandate by coordinating, promoting and supporting research in geriatric health care.

A health-care researcher and consultant, she will form an advisory committee of family physicians, other health-care professionals, researchers and consumers to provide advice and feedback on the research program. Brett will also help develop and other investigators research funding proposals, implement research projects and share findings.

"There are often multiple conditions and factors challenging the health status

of the elderly," says Brett. "The problems can be quite complex and involve family, friends and many care providers."

Brett says that with an aging population, there is a pressing need for information on health-care requirements and care delivery.

Brett most recently worked with a family practice research unit at the University of Western Ontario and is excited about the prospect of building a provincial program.

The geriatrics researcher position is made possible through support from the Royal Canadian Legion, Pacific Command. It is one of several positions funded by the Legion within the Family Practice Dept.

Individuals wanting to learn more about the geriatrics research program are invited to contact Brett at (604) 875-4111 (ext. 61438), or by e-mail to pbrett@unixg.ubc.ca.

News Digest

The search is on to find a new director for the First Nations House of Learning.

Current director Jo-ann Archibald plans to return to research and teaching in the Faculty of Education when her five-year term ends June 30.

A president's advisory committee representing First Nations programs, student services and faculties will oversee the selection process.

Short-listed candidates will be invited to speak to faculty, staff, students and First Nations elders.

Applications and nominations will be received until Jan. 15, or until the position is filled.

The First Nations House of Learning was established in 1987 to make UBC and its resources more accessible to B.C.'s First Nations. It works with faculties to develop courses and programs, and provides a variety of student services.

For more information about the selection process, call Charlotte Passmore in the office of the vice-president, Academic and Provost, at (604) 822-3624 or e-mail passmore@unixg.ubc.ca.

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The Royal Netherlands Embassy and the Canadian Association for the Advancement of Netherlandic Studies is holding an essay contest. Five contestants will win a week-long tour of the Netherlands in May.

Canadian post-secondary students aged 18-25 are invited to write an essay describing their personal perception of any aspect of the history, culture, present economic and political situation of the Netherlands and the Canada-Netherlands relationship. Submissions must be received by the Royal Netherlands embassy by Jan. 15.

For more information, contact the embassy at nlgovott@ottawa.net or (613) 237-5030.

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A permanent display of writer George Woodcock's personal items will be housed in the Main Library outside the Ridington Room.

The display includes Woodcock's typewriter. Books belonging to Woodcock were also donated by his wife, Ingeborg, to Special Collections. Woodcock, who died in 1995, wrote and edited more than 120 books, many related directly to B.C., and won a Governor General's Award. In 1959 he co-founded the first periodical entirely dedicated to Canadian writing, *Canadian Literature*, which he edited from 1959 to 1977. In the 1950s and '60s he lectured in UBC's English Dept.

Thanks to donations from Woodcock's wife, the West Coast Book Prize Society, and other friends and admirers, a George Woodcock Canadian Literature and Intellectual Freedom Endowment Fund has been created to acquire significant manuscripts and books for the UBC Library.

For all members of the UBC Community — Students, Staff, Faculty, and Administrators

January 13, 1998

12:45-2:00pm

Student Union Building (Room TBA)

The term "Human Rights" is much in the news.

Do you know your rights and responsibilities as a citizen of this University?

Join Prof. Bill Black, Faculty of Law, Margaret Sarkissian, Equity Advisor, Equity Office, and Sarah Dench, Student Services Ombudsperson, and others, for a lively and vital discussion on "Understanding your Human Rights."

Discuss:

- your rights as a member of the UBC community
- your role in promoting an inclusive campus
- where to get advice and information to deal with discrimination and harassment issues

The Culturally Inclusive Campus Committee welcomes your questions and comments to guide this discussion. Please direct all correspondence c/o Equity Office, Room 306, Brock Hall, e-mail jmcabin@equity.ubc.ca



Russ Wigle

Investment Advisor

Tel: 669-1143

Fax: 669-0310

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Classified

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 internal requisition. Advertising enquiries: 822-3131.

The deadline for the January 8, 1998 issue of *UBC Reports* is noon, December 29.

Accommodation

POINT GREY GUEST HOUSE A perfect spot to reserve accommodation for guest lecturers or other university members who visit throughout the year. Close to UBC and other Vancouver attractions, a tasteful representation of our city and of UBC. 4103 W. 10th Ave., Vancouver, BC. V6R 2H2. Call or fax 222-4104.

TINA'S GUEST HOUSE Elegant accommodation in Pt. Grey area. Minutes to UBC. On main bus routes. Close to shops and restaurants. Incl TV, tea and coffee making, private phone/fridge. Weekly rates available. Call 222-3461. Fax: 222-9279.

GREEN COLLEGE GUEST HOUSE Five suites available for academic visitors to UBC only. Guests dine with residents and enjoy college life. Daily rate \$52, plus \$14/day for meals Sun.-Thurs. Call 822-8660 for more information and availability.

BROWN'S BY UBC B&B Rooms for rent short or long term in a comfortable house very close to UBC. Prefer graduate, mature students. Call 222-8073.

BAMBURY LANE Bed and breakfast. View of beautiful BC mountains, Burrard Inlet and city. Clean, comfortable. Use of living rm, dining rm, and kitchen. Min to UBC, shops and city. Daily, weekly and winter rates. Call or fax (604) 224-6914.

GAGE COURT SUITES Spacious one BR guest suites with equipped kitchen, balcony, TV and telephone. Centrally located on Student Union Boulevard, near SUB, Aquatic Centre and transit. Ideal for UBC lecturers or campus visitors. 1997 rates - \$81 - \$110/night. Call (604) 822-1010.

PENNY FARTHING INN 2855 West 6th. Heritage House, antiques, wood floors, original stained glass. Ten minutes UBC and downtown. Two blocks from restaurants, buses. Scrumptious full breakfasts. Entertaining cats. Views. Phones in rooms. Call (604) 739-9002. E-mail: farthing@uniserive.com.

B & B BY LOCARNO BEACH Walk to UBC along the ocean. Quiet exclusive neighborhood. Near buses and restaurants. Comfortable rooms with TV and private bath. Full breakfast. Reasonable rates. Non-smokers only, please. Call 341-4975.

ENGLISH COUNTRY GARDEN B & B Warm hospitality awaits you at this centrally located view home. Lg rms with private bath, tv, phones, tea/coffee, fridge. Full breakfast, close to UBC, d/t and bus routes. \$50-70 sgl; \$80 dbl. Call or fax 737-2526.

JASMINE'S Peaceful location for this private, comfortable double with ensuite bath and separate entrance, 10 min from UBC. Nightly and weekly rates. Short walk to buses, cafes, shopping, cinema, and forest trails. Call 224-9191.

Accommodation

FRANCE Paris Central 1 BR. Close to Paris 1 BR Provence house fully furnished. Call 738-8187.

DELUXE 2 BR apt on campus avail Jan 1/98. Pool, exercise centre, u/g parking. \$1500/mo util not incl. Call (604) 947-0396.

KITSILANO Display suite 2 BR and study. F/P, W/D, fully fenced yard, gym, hot tub. New bldg, quiet. Bus lines avail. Pet/child acceptable. Rent neg \$2000-\$3000. Call 645-3881.

PARIS SABBATICAL Sept. 1998 to June 1999 or any six-month period. Fully furnished studio, separate kitchen, full bath. Lots of space and light. Near new grande bibliotheque, direct metro to Bibliotheque Nationale. Reasonable rent. Call 732-9016.

A HORNBY ISLAND SABBATICAL For rent, Jan.-May, a newly renovated Hornby Island house in Sandpiper area. Perfect sabbatical retreat for family of five. N/S please. \$650 per month. E-mail elder@evds.ucalgary.ca, fax (403) 284-4399, or phone (403) 283-8085 (h), 220-8076 (o).

KITSILANO TOWNHOME Spacious and bright 3 BR, 2 bath, 3 levels. Lg kitchen, D/W, F/P, carport, secluded patios. N/S. No pets. Avail Jan 1. \$1750/mo. Refs. Call 224-4490.

MODERN 1 BR Furnished garden level bsmt suite. 5 min to UBC. Private entrance N/Pets. N/S. Suitable for one occupant. \$900 incl util. Avail Jan. 1. Call 224-9319.

Services

UBC FACULTY MEMBERS who are looking to optimize their RRSP, Faculty pension and retirement options call Don Proteau, RFP or Doug Hodgins, RFP of the HLP Financial Group for a complimentary consultation. Investments available on a no-load basis. Call for our free newsletter. Serving faculty members since 1982. Call 687-7526. E-mail: dproteau@hlp.fpc.ca dhodgins@hlp.fpc.ca

PRESCHOOL available for 3 and 4 year olds. Mornings or afternoons. UBC Child Care Services. Call 822-5343.

DIAL-A-MENU No more thinking of what to cook for dinner! Add inspiration to your daily cooking. Cook simple, great, healthy foods. Save time, money and stress. To hear this week's menu call 990-4593.

For Sale

VISITING DOCTOR returning to Europe offers for sale simple furniture, QS bed, kitchenware, tv, car (Hyundai \$1900). Ideal for new visitor at UBC. Also, rental of downtown apartment (terrific view!) is offered \$950/mo. Call 681-1408.

Next ad deadline:
Monday, Dec. 29

Alan Donald, Ph.D. Biostatistical Consultant

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GERARD EMANUEL - HAUTE COIFFURE



Let Yourself Be Transformed 20% off hairstyling

Gerard does not cut your hair right away. First he looks at the shape of your face. He wants to know what you want, the time you want to spend on your hair, your lifestyle. Once your desires are communicated, Gerard's design creativity flourishes into action to leave you feeling great by looking your very best. Gerard uses natural products to leave your hair soft and free of chemicals. He also specializes in men and women's hair loss using **Edonil** from Paris, France, and is the only one in North America using this technique. Gerard was trained in Paris and worked for Nexus as a platform artist. Gerard invites you to his recently opened salon in Kitsilano.

3432 W. Broadway 732-4240



Stephen Forgacs photo

Take A Bough

Surrounded by evergreen boughs destined to become holiday decorations, Kathy McClean puts the finishing touches on one of about 250 wreaths prepared this year by the Friends of the Garden, a group of volunteers who work to support UBC's Botanical Garden. McClean, a four-year volunteer at the garden, works with others to produce wreaths, ornamental baskets and other decorations. The fruits of their labour are on display and available for purchase at the Shop-in-the-Garden located at 6804 Southwest Marine Drive. Proceeds are used to support the garden. For information call 822-4529.

People

by staff writers

David Dodge, former deputy minister in the federal Ministry of Finance, is the first Distinguished Senior Visiting Fellow at the SFU-UBC Centre for the Study of Government and Business (CSGB).

Dodge is on leave from Ottawa until May to study economic growth, health-care policies, fiscal policy and risk analysis in the public sector. He will guest lecture in the Faculty of Commerce and Business Administration.

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Prof. Clarence de Silva has been elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). De Silva, a mechanical engineer and holder of the Natural Sciences and Engineering Research Council (NSERC) Chair in Industrial Automation, is also a fellow of the American Society of Mechanical Engineers. He has received numerous awards for his research and was recently appointed editor-in-chief of the *International Journal of Knowledge-Based Intelligent Engineering Systems*. He had previously served as regional editor for the publication, which publishes original papers in engineering applications of knowledge-based systems, neural networks, fuzzy systems, evolutionary computing, intelligent control and automation.

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Ken Lum, an associate professor of Fine Arts, is one of four Simon Fraser University graduates to receive the university's 1997 Outstanding Alumni Award.

Lum's internationally acclaimed photo and text-based work has been shown in New York, London, Cologne, Milan, Amsterdam, Paris, Vienna and next month in Rome. Last year he was a guest professor at the L'Ecole des Beaux-Arts in Paris.

Lum recently took part in the Johannesburg Biennale in South Africa. His work consisted of two enormous billboards overlooking an expressway.

On one side of the billboard was a head-and-shoulders photo of a young Asian woman with the text, "I want to stay." The other side showed the same woman from behind with the text, "I want to leave" — a provocative message in a country struggling with the transition to a post-apartheid multiracial society.

Forum

The Rule of Law, APEC and Canada

by W. Wesley Pue

Wesley Pue is a professor in the Faculty of Law and holder of the Nemetz Chair in Legal History at UBC.

A group of dictators who controlled some of the most powerful economies in the world came to Canada recently. Many returned to basket-case economies, having shared their political values with Canada's leaders. It was not a good exchange.

Though media attention focused on police brutality, the public should be concerned about matters bigger than low-level thuggery.

The right of free citizens to peacefully express opinion on all and any matters is the hallmark of free society. It is the foundation on which Canadian constitutionalism rests.

Though any government can properly decide not to raise human rights concerns in multilateral economic discussions, it is a very different matter to decree that no Canadian citizen in the line-of-sight of APEC leaders may hold a banner or shout a slogan.

The former is within the range of lawful political judgement. The latter is not.

Beyond free expression, two other rights are fundamental. In free societies any person may do anything not expressly prohibited by law. Second, "no man can be punished, or can be lawfully made to suffer either in his body or in his goods, except for a distinct breach of law established in the ordinary legal manner before the ordinary courts" [Lord Hewart].

Imagine two possible lines of authority:

Line A: Prime Minister - flunky's decree - police - truncheon - citizen

Line B: Constitution - Queen in Parliament - police courts - citizen

The second is a short-form expression of the Rule of Law. The first, not to put too fine a point on it, is dictatorship. This is so even when assault by noxious chemical (pepper spray) and plastic handcuff stands in for the truncheon of old.

Now, imagine an act of Parliament enacting that no poster which is displeasing to the Prime Minister shall be displayed within his view, or perhaps, that no one within 100 metres should utter words displeasing to a Canadian politician. No constitutionally minded Commons, Senate or Governor General would approve it. If enacted, any such statute would be struck down by any court in Canada without second thought.

No attempt to justify draconian measures on the grounds that certain words might cause offense to foreign despots (if that were the case) could confer the dignity of legal justification under the terms of the Charter, within the spirit of a free and democratic society (Constitution Act, 1981), or under a constitution similar in principle to that of the United Kingdom (Constitution Act, 1867). Freedom is not made of such material.

Now, it is an elementary legal principle that, if the Queen in Parliament is prohibited from doing something, so too are her ministers, executive assistants, and police.

All these features of the Rule of Law were violated when APEC came to UBC. It may or

may not be the case that federal officials insisted on a "no poster" policy. Policing perimeters at the university were however clearly designed to conceal any sign of criticism. Dictators, perpetrators of genocide, were protected from Canadian speech, not mob violence. A cordon sanitaire protected their sensibilities, not their bodies. Our leaders' apparent willingness to violate the spirit on which constitutional freedom rests is no small matter. Some of the post-APEC accounts of police and political behaviour are, if verifiable, scandalous:

1. a student arrested for holding a smallish sign saying "free speech"
2. a lawyer/graduate student prohibited by police from posting signs around Green College, told this was on orders from the "PMO" and that, if she persisted, police would "think of" a charge after arresting her
3. the obstruction of Graduate Student Society President Kevin Dwyer's attempt to fly a flag on a building far from (but within sight of) the APEC meeting
4. a demonstration organizer arrested for an "assault by megaphone" (look that up in the Criminal Code!) which took place some weeks earlier
5. the use of pepper spray to punish Substantial issues lurk behind "bad cops."

The seeming enthusiasm of our elected representatives to order the suspension of very fundamental rights should not be overlooked.

These matters bear enquiry.

Bubble zeros in on deadly tumours

Cancer researchers Thomas Madden and Marcel Bally are working on getting the bubble to burst.

Madden, an adjunct professor of pharmacology, and Bally, a biochemist at the B.C. Cancer Agency, are designing a new type of liposome, or fat bubble, that can deliver anti-cancer drugs directly into tumours.

Liposome therapy is less toxic and more effective than other types of chemotherapy.

A bubble containing anti-cancer drug is carried through the bloodstream directly to the site of the tumour. The drug is encapsulated by the bubble as it travels through the bloodstream so healthy cells aren't damaged and patients experience fewer side effects from their chemotherapy.

Using liposomes as drug carriers means that 10 to 20 times more anti-cancer drug can be delivered to the tumour than is used in conventional therapies. Because of the concentrated drug dosage, liposome therapy doesn't need to last as long as conventional chemotherapy.

How does it work? Microscopic bubbles containing the drug are injected intravenously and move through the bloodstream. When the blood reaches the tumour site, liposomes find their target.

Blood vessels in tumours are leaky, weakened by the cancer's rapid growth.

"The vessels have holes just like a sieve," says Bally. "We control liposome size so they're small enough to travel through the holes and move right into the blood vessels supplying the tumour."

A concentration of bubbles then starts to build at the site.

The only problem is getting the bubbles to burst.

"Although we can get the bubbles accumulating at the tumour site, they don't release the drug well," says Madden. "We're working on a new type of bubble that becomes unstable over time, and either fuses with the cancer cells or bursts, releasing the drug directly into the tumour site."

A full release of liposome contents would ensure all the drug was being used, making it more effective.

Liposome therapy has been the subject of research since the 1960s when lipid bubbles were first created. The therapy works best with solid tumours whose blood vessels provide an entry point for the bubbles.

In the 1980s, Madden, Bally and other UBC researchers worked on a first generation of liposomes, which is undergoing widespread clinical testing in the United States for the treatment of breast cancer.

Because it would revolutionize cancer treatment, researchers world-wide are investigating liposome therapy. Researchers have confirmed that drug release from the bubbles can be controlled and that the process results in improved anti-cancer activity.

Madden and Bally's research on the new type of liposome is being supported by the National Cancer Institute of Canada through funds provided by the Canadian Cancer Society, B.C. and Yukon division.



A Vision for the 21st Century

THE UNIVERSITY
OF BRITISH COLUMBIA
INVITES IDEAS AND
ADVICE FROM ITS
FACULTY, STUDENTS,
STAFF AND ALUMNI,
AND FROM ALL MEMBERS
OF THE COMMUNITY,
TO HELP ESTABLISH
A 21ST CENTURY VISION

As one of Canada's leading universities, The University of British Columbia is taking the initiative in planning for the 21st century. At a time of social, economic, and environmental renewal and challenge, UBC is asking all its members and alumni, and the broader community, to become involved, give advice, and provide input into the vision process.

The articulation of that vision, planned to take the best part of a year, has already begun with the publication of a pamphlet outlining the contexts, trends and challenges which must be taken into account before any strategies may be devised. This contextual document is widely available on the campus, including in the Student Union Building and the University Bookstore.

Below are some of the points made in the contextual document, including questions that we hope will stimulate thought and discussion, and prompt readers to send us their views.

Context: While our economy continues to be heavily dependent on the processing of raw materials and their applications in industry, we are moving into an era dominated by information and knowledge. Technological innovation is transforming education and work, and exercising a significant influence on almost every aspect of daily life, including our leisure and cultural activities. The complexities of the global environment will require individuals not only to be literate and numerate, but also to have an extensive understanding of various cultures, customs, and languages. The need for an educated and informed citizenry has never been greater.

Such trends, highlighting as they do the growing importance of knowledge and knowledge-based skills, are good news for universities. Perhaps at no other time in history has the well-being of society depended so much on the ideas, creativity, and intellectual development that universities can foster. We have thus an opportunity to show the community how its investment in higher education can lay the foundation for future prosperity, and work to our mutual benefit.

Challenges: These include 1) the problem of faculty and staff renewal: between 1997 and 2010 almost half the current faculty and staff will retire; 2) freezes in salaries and career advancement plans have created difficulties in retaining outstanding personnel; 3) declining resources have threatened UBC's traditional excellence in research; 4) teaching facilities, including labs and classrooms, are in serious need of upgrading; 5) reductions in public funding relative to our growth threaten our ability to provide a first-class education, create problems of access, and increased the financial burden on students; 6) students are concerned about the relevance of their education to their future career or profession; 7) many aspects of the campus environment, including teaching spaces, roads, and communal space, must be repaired or improved.

Trends: The shape of the university of the future can already be perceived through some of the trends evident in higher education today: 1) internationalization, the training of students to work in a truly global environment; 2) interdisciplinarity, the crossing of traditional disciplinary boundaries towards greater collaboration in teaching and research; 3) increasing use of information technology; 4) a renewed commitment to undergraduate education; 5) new partnerships between the universities and industry or government through jointly-funded research; 6) the development of new teaching methods; 7) the expansion of continuing education programmes, including into the workplace; 8) changes in the student population with respect to age, gender, ethnic background and other factors; 9) rising competition among service providers, making higher education a keenly-contested area.

Many questions must be answered before we can begin the planning process, and in the full contextual document we list ten, including:

How may the University strengthen its links with the external communities that it serves and from which it derives its support?

What steps should we take to improve the environment for teaching and research at UBC?

What is the purpose of an undergraduate education, and how may that purpose differ in the 21st century from our understanding of it today?

We encourage everyone to consult the full text of the contextual document for a more detailed discussion of the points noted above. The document is available in hard copy around the UBC campus, and also on the Web at WWW.VISION.UBC.CA. We invite all readers to respond to the questions in that document, and to offer comments and suggestions.

Should you experience any difficulty in obtaining copies, please contact the President's Office, 6328 Memorial Road, Vancouver, B.C. V6T 1Z2; phone no. 822-8300, fax no. 822-5055, email: vision@exchange.ubc.ca.

T H I N K A B O U T I T !