THE UNIVERSITY OF BRITISH COLUMBIA

# UBC REPORTS

Volume 44, Number 2 January 22, 1998

■ Find *UBC Reports* on the Web at www.external-affairs.ubc.ca/paweb/reports/ ■

Stephen Forgacs photo

## Bud Break

**Second-year Soil Science master's student Jesse Pratt takes a quick mid-winter break to smell the roses in one of UBC's greenhouses. Pratt enjoys tropical conditions while undertaking research into the effect that soil fauna, such as mites and springtails, have on nutrient cycles. Her research does not involve roses.**

# Author Shields lectures at Vancouver Institute

Governor General and Pulitzer Prize - winning author Carol Shields, *The Intelligence of Dogs* author UBC Psychology Prof. Stanley Coren, and Nobel Prize-winning physicist Martin Perl are among the speakers participating in The Vancouver Institute spring lecture series at UBC. This season marks the institute's 82nd year.

The free series begins Jan. 31 and continues to April 4. Lectures take place at 8:15 p.m. in Lecture Hall 2 of the Woodward Instructional Resources Centre.

Recent books written by series speakers will be available at the door or at the UBC Bookstore.

**Shields**

Lectures in the series include:

**Jan. 31:** David Baines, "Lambs to the Slaughter: the VSE and the Exploitation of Speculation."

**Feb. 7:** Wayson Choy, "The Importance of Story: the Hunger for Personal Narrative."

**Feb. 14:** Richard White, "History as the Enemy of Memory: an Anatomy of Remembering."

**Feb. 28:** Michael Church, "A River in Time: the Natural History of the Fraser River."

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# Design key to safety, says new co-ordinator

**by Hilary Thomson**

*Staff writer*

UBC's new personal security co-ordinator Paul Wong is a criminologist with a flair for design.

Whether it's a parkade or a university residence, Wong can tell you if the design of the environment reduces the opportunity for crime.

"Understanding how the building or space is used is the first step," says Wong who works for the Dept. of Health, Safety and the Environment.

**Wong**

Key to improving security, says Wong, is exterior design, such as the position of stairwells and windows, lighting, landscaping and controlling growth of bushes and trees to improve sightlines.

Wong has conducted safety audits and evaluated the design of several educational institutions, including Kwantlen and Douglas colleges, the Justice Institute and Simon Fraser University.

But physical design is just one of the tools to determine risk, he says.

Wong also uses monthly security and RCMP incident reports, safety surveys and audits. In the most recent audit, the Alma Mater Society (AMS) had student volunteers assess nighttime security at various campus locations.

Increasing the involvement of the campus community in diagnosing problems is one of Wong's goals.

As co-ordinator, he works closely with the Personal Security Advisory Committee (PSAC), whose representatives include the Women Students' Office, the Equity Office and Parking and

*See* ***SAFETY*** *Page 2*

# Cutting-edge chemistry funded by Wall Institute

**by Sean Kelly**

*Staff writer*

An interdisciplinary and international research team led by one of Canada's top chemists is set to break new ground in the study of electron motion thanks to a $500,000 grant from the Peter Wall Institute for Advanced Studies (PWIAS).

Chemistry Prof. Chris Brion's research team won the annual competition for the institute's Major Thematic Grant to use technology developed at UBC to study the motion of electrons in atoms, molecules and condensed matter. Many have never been studied before.

The objects of study are "orbitals" — the complex patterns created by electrons as they move in and out around their nuclei at speeds of about 16 million kilometres per hour.

"It's a lot trickier than a photo radar speed trap on University Boulevard," says Brion.

By studying orbitals, the team of 14 leading researchers in the fields of chemistry and biochemistry, physics, engineering, and materials science hopes to gain an understanding of the relation between chemical behavior and electron motion at a fundamental level.

The experiments will focus on the electrons which occupy the outermost, or valence, orbitals. Brion says figuring out how valence orbitals behave is the holy grail of chemistry.

"We now believe that when one molecule meets another, it is the outside, low momentum regions of valence orbitals that initially direct and determine chemical reactivity, chemical bonding, and certain physical behaviors," he explains.

Breakthroughs in computer-aided molecular design, screening and design of drugs, and the development of new materials are some of the possible applications of the research, according to Yenyou Zheng, a member of the research team and a senior research associate in the Chemistry Dept.

Experiments of this kind began with atomic physicists in Italy and Australia in 1973.

Brion and his UBC colleagues began their studies in 1974 and have remained at the forefront of electron motion research ever since.

The key to observing the orbitals is Electron Momentum Spectroscopy (EMS), a technology applied using custom-made machines called multi-channel electron momentum spectrometers.

Inside the spectrometer, atomic or molecular targets are bombarded with an electron beam fired from an electron gun. When struck by an electron from the gun, an electron moving in an atom or mol-

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The video blockbuster of the year on campus is anatomically amazing

"writing from the oldest continuous civilization"

KEN TAKASHIMA
Institute of Asian Research

THINK About It.
UBC RESEARCH

## Electrons

*Continued from Page 1*

ecule is knocked out of its orbital, and both "scattered" electrons ricochet away at the same time. Two sensors pick up the simultaneous strikes, and record the momenta of the two scattered electrons. Knowing the momentum of the electron from the gun, and the momenta of the scattered electrons, the researchers can obtain the momentum of the moving electron before it was knocked out of its orbital.

By repeating this process many times, the characteristic movement, or density distribution, of electrons in particular orbitals can be determined with high accuracy. Once obtained, they can be used to calculate and predict chemical behavior. The bigger the molecule, the more difficult the process becomes.

UBC's first EMS machine, built in 1974, was so slow Brion says that observations for even the simplest molecules required many weeks of electron bombardment night and day. A second generation machine currently in use is 20 times faster — better, but still slow.

A new machine under construction at UBC is expected to be up to 40,000 times faster than the first machine. Funded by the Natural Sciences and Engineering Research Council and UBC, the machine should be ready this spring.

"We'll be able to study a wider range of atoms, molecules, solids and surfaces," says Zheng.

The new spectrometer has no rival anywhere in the world adds Brion.

"It's designed from scratch and constructed in-house," he says. "We buy components, we scrounge from rubbish heaps and we beg and borrow."

If everything works out, Brion believes further technical refinements could eventually produce a multi-channel spectrometer that would be 400,000 times faster than UBC's first machine.

Along with cutting-edge technology, the experience of the research team impressed the adjudicators who awarded the grant, according to PWIAS Director Kenneth MacCrimmon.

"Considering the range of disciplines and talents represented, the spirit of collaboration of this research team is impressive," he says.

Brion and Zheng are joined by UBC Chemistry professors Delano Chong, Keith Mitchell and Donald Douglas, Chemistry and Biochemistry Prof. Stephen Withers, Physics and Electrical Engineering Prof. Tom Tiedje, and Chemistry senior research associates Glyn Cooper and Bruce Todd. The research team also includes three other scientists based in Canada, and one each from the U.S., Australia, and Germany.

The Peter Wall Institute for Advanced Studies works to bring together UBC researchers and distinguished scholars from around the world, to conduct fundamental research that draws upon and contributes to a variety of disciplines.

MacCrimmon says the electron motion study won unanimous recommendations from an adjudication committee composed of distinguished researchers from every faculty at UBC. The application also received positive appraisals from external experts in five countries.

The deadline for applications for the next major thematic grant the Peter Wall Institute will award is March 2. For more information call the institute at (604) 822-4782.

## Lectures

*Continued from Page 1*

**March 7:** Kal Holsti, "War in the 20th Century: Can We Do Better in the 21st?"

**March 14:** Martin Perl, "What Einstein Couldn't Have Known: Very Small Particles at Very High Densities."

**March 21:** Angeliki E. Laiou, "Two Versions of Christian Warfare: the Crusades and the Byzantine Empire."

**March 28:** Stanley Coren, "Dogs and People: the History and Psychology of a Relationship."

**April 4:** Carol Shields, "Making Words/Finding Stories."

## Safety

*Continued from Page 1*

Transportation/Campus Security. Wong also talks with Campus Planning and Development, students, the AMS, staff and the RCMP.

"It's a question of pooling information and staying in touch with concerns," he says. "I need input from the people that use the facility."

Wong also resolves individual complaints and concerns.

"Sometimes there is fear of crime even though incident reports for the area show a low risk," Wong says. "I follow up on those concerns because the perception of safety is as important as the actual risk. Helping people feel secure is our goal."

Wong encourages individuals to become familiar with personal security resources such as the AMS Safewalk program, the security bus and the blue-light emergency phones.

Specific concerns or questions can be directed to him by e-mail to wong@safety.ubc.ca.

THE UNIVERSITY OF BRITISH COLUMBIA

# Public Information Meeting

on the

Technology Development Facility (Multi-Tenant Facility, Phase 2)

**Thursday, Jan. 29, 1998**

**12:30-1:30pm**, Maples Room, Ponderosa Bldg., 2071 West Mall

To present and review the site plan for the Technology Development Facility (Multi-Tenant Facility, Phase 2) to be constructed on the south-east corner of Parking Lot C, east of the existing Gerald McGavin Building.

The proposed 4,286 square metre building is a four-storey laboratory and office multi-tenant facility.

A stage 1 Development Permit Application has been submitted and construction is anticipated to begin Spring 1998 with occupancy Winter 1998/99.

For further information, call Jim Carruthers, 822-0469.


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# Essay Competition

## UBC in the 21st Century

UBC is engaged in long-term planning for the future, and looking for ideas from all members of the community, both on and off the campus.

To give student views greater prominence, we invite all UBC students, graduate as well as undergraduate, to present their suggestions in the form of an essay on the following topic:

**"What kind of education should UBC provide to the incoming class of 2010?"**

Essays, which should not exceed 750 words in length, will be judged on the basis of their clarity and coherence as well as their content. They may be submitted electronically via e-mail (vision@exchange.ubc.ca), faxed to 822-5055, or sent to the President's Office, 6328 Memorial Road, Vancouver, B.C., V6T 1Z2 (envelopes should be marked "Essay competition"). Writers should include their name, faculty, year, address and telephone number. The deadline for submission is Friday, Feb. 13, 1998.

**Prizes:** The essays will be read by a committee of faculty and staff from different parts of the UBC campus, and the winners (to be announced in April) will be selected with the assistance of the President's Advisory Council. Entries by graduate students will be read separately from those by undergraduates, and prizes will be awarded to winners in each group as follows:

* **First prize (undergraduate)**: One term's tuition
* **First prize (graduate)**: One term's tuition
* **Runners-up** (Six undergraduate, three graduate): $100 certificates for the UBC Bookstore

**Eligibility:** Entrants must be currently registered UBC students.


**Edwin Jackson** 224 3540

The ideal is in thyself, the impediment too, is in thyself. *Thomas Carlyle*

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UBC REPORTS

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Study:

# Kids' play may assist adult bone strength

**by Stephen Forgacs**

*Staff writer*

More than 200 Richmond school children are participating in a UBC study to determine how growing bones can benefit from increased levels of physical activity.

The study, led by Human Kinetics Asst. Prof. Heather McKay, involves 210 Grade 3 and 4 children aged eight or nine and will determine to what extent an active lifestyle can contribute to bone density — an important factor in preventing osteoporosis and brittle bones later in life.

While a control group of children is continuing with the normal school physical education program, a larger group is participating in a curriculum which incorporates higher impact exercises specially designed for the study by Human Kinetics student Lindsay Waddell.

"Much of the research money in this fascinating area has been directed at treatment of osteoporosis," says McKay. "My thinking is that it's time to take a good look at prevention. Historically, projects that address prevention are overlooked by medical research granting agencies. They don't always have the foresight within our health-care system to invest that way."

While McKay's principal focus is the effect of loading, weight-bearing or impact exercises on bone density, she is also looking at differences in diet, and cultural and genetic factors in the Caucasian and Asian children in the study group.

Some of these factors include a higher incidence of lactose intolerance in the Asian population, as well as a possible genetic predisposition to osteoporosis. Despite these factors, McKay says fractures among Asians with osteoporosis appear to be less common than in the Caucasian population, possibly because of a different physical geometry or bone dimensions.

McKay, whose earlier research at the University of Saskatchewan looked at genetic factors in bone density and osteoporosis risk in consecutive generations of Saskatchewan grandmothers, mothers and daughters, believes present generations of children are growing up at risk for osteoporosis later in life because of their sedentary lifestyles, often dominated by television and video games.

The diminished importance of physical education in elementary schools and the gradual elimination of mandatory physical education programs in high schools are factors McKay cites as possibly contributing to the threat of osteoporosis-prone generations.

"Children by nature are extremely active, yet for some reason we seem to be socializing our children away from movement," says McKay.

McKay and Human Kinetics doctoral student Moira Petit launched the Richmond study in October and found it considerably easier to set up than McKay's University of Saskatchewan study. While the Saskatchewan study required a year to recruit and set up, McKay was able to recruit the children, with parental permission, within six weeks thanks to the co-operation of the Richmond School Board. School board members, principals and teachers are helping administer the program.

**" ...it's time to take a good look at prevention."**

—Asst. Prof. Heather McKay

The children are also surveyed on their diet, particularly calcium intake, and their normal activities. As well, vertical jumps and calf circumference are measured to gauge changes in muscle strength. Bone density is measured using a standard diagnostic tool for osteoporosis called bone densitometry.

McKay says teachers involved in the study are already commenting on what they perceive to be an increase in strength and co-ordination among children participating. And, after visiting some participating groups, McKay noticed that a few students have enthusiastically embraced their new activities such as skipping rope, one of the exercises introduced as part of the study.

Initial results of the study, which involves UBC researchers from a number of departments on campus, should be compiled by June this year.

Although this is the first study in which schools have been randomly assigned as control or experimental groups, previous research suggests that the activities of early prepubescent childhood have the greatest influence on adult bone status.

"One of the strengths of this project is that it is multi-disciplinary. We're working with people in nutrition, education, medicine, radiology, and leisure and sport management," says McKay.

McKay and colleagues' earlier research into bone growth of children has shown that childhood and teenage years are very important for the development of bones that will remain healthy. Although much of the way a body's skeleton develops is determined by genetics, her research group found that during a three-year period around the time of greatest height gain, or the so-called growth spurt, the greatest percentage of bone mass is accrued. In fact, both boys and girls accrue 30 per cent of their total bone mineral during this time. This amount roughly represents the amount of bone mineral that women will lose over time after menopause.

The year following the greatest growth spurt, which occurs later in boys, is viewed as a period of "relative fragility," because bone density lags behind the rapid linear growth of bones. A higher incidence of wrist fractures have been reported in both boys and girls during this period.

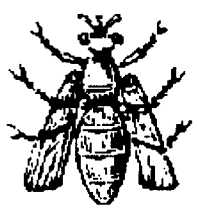
"It's very important that children, and particularly girls, have diets and lifestyles that support the development of healthy bones if they are to have strong bones and avoid problems later in life," says McKay, adding that it doesn't take much in terms of weight-bearing activity to build and maintain bone density in children and adults alike.

Stephen Forgacs photo

**More than 200 Richmond school children are assisting Human Kinetics Asst. Prof. Heather McKay and colleagues in their study of the links between physical childhood activity and osteoporosis prevention in later life.**

## Offbeat

*by staff writers*



Morgan Burke, part-time computer programmer at the Tri-University Meson Facility (TRIUMF) and aspiring fiction writer, is a day-dreamer by his own admission.

One of Burke's dreams recently came true when his short story, A Prayer for the Insect Gods, won the 1996 L. Ron Hubbard Gold Award for science fiction writing. Given annually to an amateur writer who has never been published, the win comes with a purse of $4,000 US.

Burke's story is about mechanical insects living in a city's junkyards and sewers that steal parts from cars and appliances to rebuild themselves.

"I can't remember where I got the idea," says Burke. "But having a Bachelor of Science degree in astronomy and physics, and a job at TRIUMF, means that a lot of the ideas I come up with are science-fiction related."

Burke was flown to the Kennedy Space Centre in Cape Canaveral, Fla. for the award ceremony, which was attended by some of the biggest names in science fiction and fantasy writing, including contest judges Jerry Pournelle, Greggory Benford, Frederick Pohl and Tim Powers.

Burke's story, and those of the other finalists, will be published in the *L. Ron Hubbard Presents Writers of the Future Vol. XIII* anthology, sold at major book shops.

Burke has since completed the manuscript for a novel, which concerns a sacred sword and the secret cults which continue to battle over it at the turn of the millennium.

And he's busy working on his second novel, a satire he says is about someone who aspires to be a terrorist suicide bomber.

# Creative alumni return to talk about write stuff

Morris Panych, Wayson Choy and Ian Weir are among the distinguished Creative Writing alumni returning to campus next month to discuss their writing careers in a series of noon-hour seminars.

The first seminar, on fiction writing, features Choy, author of *The Jade Peony*, Genni Gunn and Murray Logan. Held Feb. 6 at the Green College Coach House, it will be moderated by Linda Svendsen, an assistant professor of Creative Writing.

Drama is the focus of the Feb. 13 seminar, also at the Coach House. Panych and Joan McLeod, both Governor General's Award winners, join moderator Assoc. Prof. Bryan Wade.

The last in the series, on screenwriting, takes place Feb. 27 at the Royal Bank Cinema in the Chan Centre for the Performing Arts. Weir and Dennis Foon will join moderator Asst. Prof. Peggy Thompson.

Students, writers and the public are invited to attend the seminars, which all begin at 12:30 p.m.

The series is sponsored by the Koerner Foundation and the President's Advisory Committee on Lectures.

## News Digest

Senate has approved the merger of two language departments in the Faculty of Arts.

The French and Hispanic and Italian Studies departments will merge in April to form the Dept. of French, Hispanic and Italian Studies. It will be headed by the present head of French, Richard Hodgson.

The current majors of the two departments will be retained, but both departments have been asked to develop some shared courses and programs. The merger will have no impact on students' abilities to complete their programs.

Arts Dean Shirley Neuman said the merger will make for administrative efficiencies that will allow the department to concentrate its resources more effectively on teaching.

• • • • •

*PRISM international*, a literary quarterly published at UBC, has launched the Earle Birney Prize for Poetry. The first winner is Bruce Taylor, a Quebec poet.

The $500 award will be given each year to the best poem appearing in the magazine.

The prize is named for Earle Birney, who was twice awarded the Governor General's Award for poetry. Birney helped found the university's Creative Writing program and was a former editor of *PRISM international*.

*PRISM international* has published contemporary writing and translation from Canada and around the world since 1959. It is already known for its annual short fiction contest.

• • • • •

A new academic chair at the university will focus on issues in contemporary India.

The Asa and Kashmir Johal Chair of Indian Research will enhance teaching and research on India in the social sciences, law and humanities.

It is named for Asa Johal, a former member of UBC's Board of Governors, and his wife, who funded the chair along with a matching grant from the university.

The holder of the chair will also be responsible for increasing outreach activities in B.C. and throughout Canada. The growth of this country's Indo-Canadian community was one of the rationales for the creation of the chair, as was India's increasing importance in Asia.

The chair will be based in the Centre for India and South Asia Research in the Institute of Asian Research. The naming of the chair was recently approved by Senate and the Board of Governors.

## In Memoriam

### Gerald Straley

# Brilliant teacher and plantsman

Gerald Straley, a leading authority on native B.C. and Canadian plants, died on Dec. 11 after a lengthy illness. He was 52.

Straley was curator of collections and a research scientist at the UBC Botanical Garden and was renowned as one of North America's most distinguished taxonomists. He also served as honorary director of the Herbarium in the Dept. of Botany.

During his career, Straley wrote many articles and papers for journals, as well as *Vascular Plants of B.C.* and *Flora of the UBC Endowment Lands*. He also served as a major editor and author on the multi-volume publication, *The Flora of North America*.

Probably the publication he enjoyed writing most was his award-winning book, *The Trees of Vancouver*. During his illness, he was compiling notes for a second volume.

Straley was born in Virginia and completed his BSc degree in Ornamental Horticulture at Virginia Polytechnic Institute. He later went to Ohio University to study for his MSc in Botany.

He came to Vancouver as education co-ordinator at the VanDusen Botanical Garden. During this time he completed his PhD at UBC under the guidance of Roy Taylor. He joined UBC in 1982.

**Straley**

Straley was a brilliant and respected teacher and had a special way of relating to academics, students and the gardening and nursery communities.

A memorial fund has been set up in his memory. Donations can be made to the UBC Botanical Garden, c/o Bruce Macdonald, Director, UBC Botanical Garden, 6804 Southwest Marine Drive, Vancouver, B.C., V6T 1Z4.

A celebration of his life will be held at the UBC Botanical Garden from 2-4 p.m. on Jan. 31.


*The Creative Writing Program*
*at the University of British Columbia*
*presents*

**THE MASTERS SERIES 1998**

*Distinguished alumni return to campus to discuss their writing careers. All UBC and Creative Writing students, writers, and the general public are invited to attend these free noon-hour seminars.*

**FICTION**

Friday, February 6th
The Coach House, Green College
12:30 p.m.

Wayson Choy, *The Jade Peony*
Genni Gunn, *Thrice Upon A Time*
Murray Logan, *The King of Siam*
Moderator: Linda Svendsen, *Marine Life*

**DRAMA**

Friday, February 13th
The Coach House, Green College
12:30 p.m.

Joan McLeod, *2001*, Governor-General's Award
Morris Panych, *The Ends of the Earth*, Governor-General's Award
Moderator: Bryan Wade, *The Swamp Angel*

**SCREEN**

Friday, February 27
The Royal Bank Cinema, Chan Centre
12:30 p.m.

Dennis Foon, *Little Criminals*, Chalmers Award, Gemini Award - Best Screenplay
Ian Weir, Senior Story Editor, *Cold Squad*
Moderator: Peggy Thompson, *The Lotus Eaters*, Genie Award - Best Screenplay

***Sponsored by the Leon & Thea Koerner Foundation***

For Further Information:
Creative Writing - 822-0699

# Calendar

## January 25 through February 7

### *Monday, Jan. 26*

**Reading And Talk**
Mendel's Children. Sherrie Smith, author. Buchanan E-470 at 12:30pm. Bring your lunch. Call 822-0699.

**Mechanical Engineering Seminar**
The Production Of Oriented Strand Board: Challenges And Research Opportunities. Pat Crammond, Mechanical Engineering. CEME 1204 from 3:30-4:30pm. Light refreshments. Call 822-3770.

**Biochemistry And Molecular Biology Discussion Group Seminar**
Bacterial Transferrin And Lactoferrin Receptors. Anthony Schryvers, U of Calgary. IRC #5 at 3:45pm. Refreshments at 3:30pm. Call Dr. Strynadka 822-0789.

**Astronomy Seminar**
The Mass Distribution In Spiral Galaxies. Stephane Courteau, Herzberg Institute of Astrophysics, Dominion Astrophysical Observatory. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-4134.

**Green College Resident Speaker Series**
Deconstructing APEC - A Community Panel. David Lertzman, Chair, Community and Regional Planning. Green College at 5:30pm. Call 822-1878.

### *Tuesday, Jan. 27*

**Microbiology And Immunology Seminar Series**
Microbial Diversity In Deep Subsurface Environments. Jim Fredrickson Battelle PNNL. Wesbrook 100 from 12:30-1:30pm. Call 822-3308.

**UBC Humanists' Society Lecture**
The Science Of The Soul: A Naturalistic Account Of Life. Don Brown, Philosophy. Scarfe 206 at 12:30pm. Free donuts. Call 739-9822.

**Botany Seminar**
Sixth Extinction: How Large, How Soon, And Where? Stuart Pimm, U of Kentucky. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

**Lectures in Modern Chemistry**
Enzymes In Organic Synthesis - Whither Next? Bryan Jones, Prof., Chemistry, U of Toronto. Chemistry B-250 (south wing) at 1pm. Refreshments at 12:40pm. Call 822-3266.

**Metals And Materials Engineering Seminar**
Combustion Of Particles Of Copper Concentrate In A Stagnant Furnace. Anabel Thomas. Frank Forward 317 at 3:30pm. Call 822-1918.

**Oceanography Seminar**
New And Regenerated Primary Production In The Northeastern Subarctic Pacific Ocean. Diana Varela, Oceanography, Earth and Ocean Sciences. BioSciences 1465 at 3:30pm. Call 822-3278.

**Centre For Applied Ethics Colloquium**
The Commercialization Of Human Genetics: Imperialism of Disease And Inadequate Regulatory Options. Tim Caulfield, Health Law Institute, U of Alberta. Angus 413 from 4-6pm. Call 822-5139.

**Graduate And Faculty Christian Forum**
Assisted Reproductive Technology: A Christian Perspective. Edwin Hui, Prof.; Director, Chinese Studies Programme, Regent College. Buchanan penthouse at 4:15pm. Coffee at 4pm. Call 822-4351.

**Green College Speaker Series**
Gender And Performance In The South Asian Tradition. Mandakranta Bose. Green College at 5:30pm. Reception Graham House from 4:45-5:30pm. Call 822-1878.

**Film Screening And Discussion**
Evening With First Nations Women Filmmakers. Arlene Bowman, Navajo filmmaker. MOA Theatre Gallery from 7-9pm. Call 822-5087.

### *Wednesday, Jan. 28*

**Orthopedics Grand Rounds**
Rotator Cuff Tear Arthropathy. Dr. R. Hawkins; Dr. R. Orfaly; Dr. P. Kokan, Orthopaedics. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

**Institute Of Asian Research Festival**
Lunar New Year Festival. CK Choi lobby from 9am-6pm. Call 822-2746.

**Centre For Japanese Research Seminar**
The Ainu And The New I: Rethinking Tsugaru. Sherry Tanaka, Graduate Studies. CK Choi 120 from 12:30-2pm. Call 822-2629.

**Faculty Financial Planning Lecture Series**
Financial Planning: Tuning Out The Noise. John Caspar, columnist and broadcaster. Chemistry 250 from 12:30-1:20pm. Call 822-1433.

**Concert**
Wednesday Noon Hours. Camille Churchfield, flute; Eugene Osadchy, cello; Christopher Millard, basson; Rena Sharon, piano. Music Recital Hall at 12:30pm $3 at the door. Call 822-5574.

**Obstetrics And Gynecology Research Seminars**
Gene Regulation In Prostate Cancer. Dr. Colleen Nelson, Cancer Endocrinology, BC Cancer Agency BC Women's Hosp 2N35 at 2pm Call 875-3108.

**Evolution, Ecology And Biodiversity Seminars**
Demographic Patterns Of Herbivorous Insects And Community Structure Of Coral Reefs: What Can We Learn From Literature Syntheses. Buck Cornell, U of Delaware. Family and Nutritional Sciences 60 at 4:30pm. Cookies Hut B-8 at 4pm. Call 822-3957.

**Health And Medicine Lecture Series**
Barriers To Access, Barriers To Learning: Can Access To Medical Care For Rural And Remote BC Communities Ever Be Improved? Morris Barer, Health Care and Epidemiology. Green College at 5:30pm. Call 822-1878.

**19th Century Studies**
The Construction Of National Vernaculars. Joshua Mostow, moderator, Asian Studies. Green College at 8pm. Call 822-1878.

### *Thursday, Jan. 29*

**Earth And Ocean Sciences Colloquia**
The Climate Of The Younger Dryas And The Last Glacial Maximum. Andrew Weaver, Earth and Ocean Sciences, U of Victoria. GeoSciences 330-A at 12:30pm. Call 822-3287.

**Science First! Lecture Series**
Visual Development And Plasticity: How Using Your Brain Changes It. Dr. Max Cynader, Ophthalmology. Wesbrook 100 from 12:30-1:30pm. www.science.ubc.ca/seminars/seminarseries.html or call 822-5552.

**Cross-Cultural Literary Studies In Asia Group Seminar**
Gender, Performance And The Family Dynamic In Postwar Japanese Fiction. Sharalyn Orbaugh, Asian Studies. CK Choi 120 from 1:30-3pm. Call 822-2629.

**Biostatistics Seminar**
The Role Of A Consulting Statistician: My Experience. Vera Sit, Ministry of Forests. CSCI 301 from 4-5:30pm. Call 822-0570.

**Physics Colloquium**
$D(X^2-Y^2)$ Pairing And The Mechanism For High Time Superconductivity. Doug Scalapino, Prof. U of California. Hennings 318 at 4pm. Refreshments at 3:45pm. Call 822-3631.

**Law And Society Seminar**
APEC At UBC And The Rule Of Law In Canada: Roundtable Discussion. Various speakers. Green College from 8-9:30pm. Call 822-1878.

### *Friday, Jan. 30*

**Health Care And Epidemiology Rounds**
A Proposal For Colo-Rectal Screening Program. Dr. Andrew Coldman, Cancer Control Research. Mather 253 from 9-10am. Call 822-2772.

**Pediatric Grand Rounds**
National Perinatal/Neonatal Initiatives. Margaret Pendray, BC's Children's Hospital. GF Strong Aud. at 9am. Call 875-2307.

**Conference**
Law In Fragmented Societies: Current Directions In Canadian Socio-legal Studies. Socio-legal scholars from across Canada. No registration fee. Green College from 9am-5pm. Call Wes Pue 822-6525 or 822-1878.

**Fish500 Seminar**
Spatial And Temporal Patterns Of Covariation In Survival Rates, Growth Rates, And Age At Maturity Of Sockeye Salmon. Randall Peterman, SFU. Hut B-8 Ralf Yorque Room at 11:30am. Refreshments at 11am. Call 822-2731.

**Pharmaceutical Sciences Seminar**
Glucose-Dependent Insulinotropic Polypeptide: Functional Aspects And Therapeutic Potential. Prof. Chris McIntosh, Physiology. Cunningham 160 from 12:30-1:30pm. Call 822-7795.

**Occupational Hygiene Program Seminar Series**
Developing Issues On Building Material And Mould. Brad Prezant, Industrial Hygienist, Prezant Associates. Vancouver Hosp/HSC, UBC, Koerner G-279 from 12:30-1:30pm. Call 822-9302.

**Curriculum Studies Seminar**
Mistaking Maturity For Ability: The Relative Age Effect. Roger Barnsley, St. Thomas U. Scarfe 310 aat 12:30pm. Call 822-5826.

**Soil Science Seminar**
Natural And Anthropogenic Reasons And Results Of Soil Acidification. Tadeusz Filipek, Agriculture, U of Lublin. MacMillan 154 at 3:30pm. Call 822-6534.

**Mathematics Colloquium**
Our Sun Site. Bill Casselman, Prof. Mathematics. Math 100 at 3:30pm. Refreshments Math Annex 1115 at 3:15pm. Call 822-2666.

**Chemical Engineering Weekly Seminar**
Biofiltration Control Of Reduced Sulfur Pulping Odours. Altaf Wani, Chemical Engineering. ChemEng 206 at 3:30pm. Coffee ChemEng 204 at 3:15pm. Call 822-3238.

**Physical Chemistry Seminar**
Dynamical Modelling Of Biological Development. Lionel Harrison, Prof. Chemistry. Chemistry D-225 (center block) at 4pm. Call 822-3266.

### *Saturday, Jan. 31*

**Centre for Japanese Research Forum**
Deregulation Of Electric Power - North America And Japan. Takahide Niimura; Post-Currency Crisis In Asia, Bernard Yeung, U of Michigan. CK Choi 120 from 9:30am-12pm. Refreshments. Call 822-8434 or e-mail nakamura@unixg.ubc.ca.

**Vancouver Institute Lecture**
Lambs To The Slaughter: The VSE And The Exploitation Of Speculation. David Baines, journalist. IRC #2 at 8:15pm. Call 822-3131.

### *Sunday, Feb. 1*

**Concert**
Distinguished Artists. Gilbert Kalish, piano. Chan Centre at 3pm. Tickets available through Ticketmaster. Call 822-5574.

### *Monday, Feb. 2*

**Asian Food Festival**
Various Asian Cuisine. Asian Centre Aud. from 11am-3pm. Continues to Feb. 4. Call 1-888-208-5557.

**Biochemistry and Molecular Biology/Virology Discussion Group**
The Regulation Of Sendai Virus RNA Synthesis. Dr. Sue A. Moyer, Medical Genetics and Microbiology, U of Florida. IRC #3 at 12:30pm. Refreshments at 12:20pm. Call Dr. Astell 822-2142.

**Concert**
Percussion Ensemble Recital. Sal Ferreras, director. Music Recital Hall at 12:30pm. Call 822-5574.

**Mechanical Engineering Seminar**
Vibration Control In Industrial Aerodynamics. Sandeep Munshi, Mechanical Engineering. CEME 1204 from 3:30-4:30pm. Light refreshments. Call 822-3770.

**Biochemistry And Molecular Biology Discussion Group**
Compartmentalized Signalling In Hematopoietic Cells. Dr. Stephen Robbins, Oncology and Medical Biochemistry, U of Calgary. IRC #5 at 3:45pm. Refreshments at 3:30pm. Call Dr. Gold 822-4070.

**Astronomy Seminar**
The Emergence Of Structure In The Universe And The Formation Of The First Galaxies. Len Cowie, U of Hawaii. Hennings 318 at 4pm. Coffee, tea at 3:30pm. Call 822-4134.

**Green College Resident Speaker Series**
How Johnny Depp Goes Back In Time, Or Approaching The Continuum Of First Nations Imagery From The Northwest Coast. Todd Tubutis, Anthropology and Sociology. Green College at 5:30pm. Call 822-1878.

### *Tuesday, Feb. 3*

**Microbiology And Immunology Seminar Series**
SRC-Family Tyrosine Kinases And Their Role In Cell Signalling. Stephen Robbins, Oncology and Medical Biochemistry, U of Calgary. Wesbrook 100 from 12:30-1:30pm. Call 822-3308.

**Botany Seminar**
Novel Light-harvesting Genes And Proteins In Algae. Roger Hiller, Biological Sciences, Macquarrie University. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

**Metals And Materials Engineering Seminar**
Leaching Of Cupriferrous Gold Ore By Cyanidation. Francois Coderre. Frank Forward 317 at 3:30pm. Call 822-1918.

**Oceanography Seminar**
Internal Tides In Dixon Entrance. Ana Carrasco, Oceanography, Earth and Ocean Sciences. BioSciences 1465 at 3:30pm. Call 822-3278.

**Green College Speaker Series**
Social Justice And Citizenship - What's Going On? Ed Broadbent, JS Woodsworth Chair in Humanities, SFU. Green College at 5:30pm. Reception Graham House from 4:45-5:30pm. Call 822-1878.

**Film Screening And Discussion**
Evening With First Nations Women Filmmakers - A Series Of Three Evenings. Barb Cranmer. MOA Theatre Gallery from 7-9pm. Call 822-5087.

### *Wednesday, Feb. 4*

**Orthopedics Grand Rounds**
Complications In Spine Surgery. Dr. M. Dvorak, Orthopedics. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

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 February 5 issue of *UBC Reports* — which covers the period February 8 to February 21 — is noon, January 27.

# Calendar

## January 25 through February 7

**Faculty Financial Planning Lecture Series**
Faculty Pension Plan: Thinking Strategically. Stan Hamilton, Faculty Pension Plan. Chemistry 250 from 12:30-1:20pm. Call 822-1433.

**Concert**
Wednesday Noon Hours. Wolfgang Basch, trumpet; Martin Berinbaum, trumpet; Edward Norman, organ. Music Recital Hall at 12:30pm. $3 at the door. Call 822-5574.

**Obstetrics And Gynecology Research Seminars**
The Multiple Roles Of P13-Kinase In Regulation Of Hemopoietic Cell Functions. Dr. Vincent Duronio, Medicine. BC Women's Hosp. 2N35 at 2pm. Call 875-3108.

**Lecture**
Exploration Of Femininity In New Caledonia. Louise Johnson, Anthropology and Sociology, Monash University. Centre for Research in Women's Studies and Gender Relations lounge from 3:30-5:30pm. Call Kristin 822-9171.

**Evolution, Ecology And Biodiversity Seminars**
The Influence Of Fish Predation On Invertebrate Community Structure In A Fishless Stream. Jordan Rosenthal. Family and Nutritional Sciences 60 at 4:30pm. Cookies Hut B-8 at 4pm. Call 822-3957.

**The Interdisciplinary Seminar**
Whose Ethical Issues In Genetics? Michael Burgess, Chair Biomedical Ethics, Centre for Applied Ethics. Green College at 5pm. Call 822-0549.

**Theatre At UBC**
A Mouthful Of Birds. Joyce Miller, director. BC Tel Studio Theatre at 7:30pm. Continues to Feb. 14. Call 822-2678.

**Cultural And Media Studies Interdisciplinary Group**
The Press And The Public: A Relationship In Trouble. Donna Logan, Director, Journalism. Green College at 7:30pm. Call 822-1878.

### *Thursday, Feb. 5*

**Earth And Ocean Sciences Colloquia**
Black Holes And Thermodynamics. Bill Unruh, Physics and Astronomy. GeoSciences 330-A at 12:30pm. Call 822-1814.

**Science First! Lecture Series**
Imaging: Watching The Working Brain. Elana Brief, Physics; Kent Kiehl, Pyschology; Alex MacKay, Physics. Wesbrook 100 from 12:30-1:30pm. Call 822-5552 or www.science.ubc.ca/seminars/seminarsèries.html.

**UBC ArtsFest '98 Concert**
Basically Brass. UBC Brass Ensemble; Ed Norman, organ; Martin Berinbaum, conductor. Music Recital Hall at 12:30pm. Call 822-5574.

**CICSR's Distinguished Lecture Series**
Colour Image Processing And Applications. Anastasios Venetsanopoulos, U of Toronto. CICSR/CS 208 from 4-5:30pm. Refreshments. Call at 822-6894.

**Physics Colloquium**
TBA. Shuaji Sondhi, Princeton U. Hennings 318 at 4pm. Refreshments at 3:45pm. Call 822-3631 or www.physics.ubc.ca.

**Policy Issues In Post-Secondary Education In BC**
The University In The 21st Century. Michael L. Skolnik, OISE, U of Toronto. Green College at 4:30pm. Call 822-1878.

**UBC ArtsFest '98 Concert**
Basically Brass. UBC Symphonic Wind Ensemble; Vancouver Symphony Brass Ensemble; U of Calgary Wind Ensemble; Martin Berinbaum, director. Chan Centre at 8pm. Call 822-5574.

### *Friday, Feb. 6*

**Health Care And Epidemiology Rounds**
The Canadian Heart Health Initiative Ontario Project: Predisposition, Capacity And Implementation In Ontario Public Health Departments. S. Martin Taylor, Prof., Chair, Geography, McMaster University. Mather 253 from 9-10am. Paid parking avail. in Lot B. Call 822-2772.

**Pediatric Grand Rounds**
From Banting To The Analogues: Past, Present And Future Of Insulin. Dr. Jean-Pierre Chanoine. GF Strong Aud. at 9am. Call 875-2307.

**Third Annual Graduate Symposium**
Instant Asia - Constructing New Identities In An Era Of Globalization. Dr. Aihwa Ong, U of California. Continues to Feb. 8. $20 registration fee includes banquet. Call Arnab Guha 221-1506.

**Fish500 Seminar**
Prince William Sound Ecosystem Modelling: Discussion Of The Project. Hut B-8 Ralf Yorque Room at 11:30am. Refreshments at 11am. Call 822-2731.

**Pharmaceutical Sciences Seminar**
Hypertension And Diabetes Differentially Regulate Cardiac Endothelial Lipoprotein Lipase. Nanda Sambandam, Pharmaceutical Sciences. Cunningham 160 from 12:30-1:30pm. Call 822-7795.

**UBC ArtsFest '98 Concert**
Basically Brass. U of Victoria Brass Ensemble; Louis Ranger, director. Music Recital Hall at 12:30pm. Call 822-5574.

**Occupational Hygiene Program Seminar Series**
Animals As Sentinels Of Human Health Risk. Dr. Craig Stephen. Vancouver Hosp/HSC, UBC, Koerner G-279 from 12:30-1:30pm. Call 822-9302.

**Creative Writing Master Series Seminar**
Fiction Writing. Wayson Choy, author and novelist. Green College Coach House at 12:30pm. Call 822-0699.

**Pharmaceutical Sciences Seminar**
Hypertension And Diabetes Differentially Regulate Cardiac Endothelial Lipoprotein Lipase. Nanda Sambandam, Pharmacology and Toxicology. Cunningham 160 from 12:30-1:30pm. Call 822-4645.

**Science And Society**
Making The History Of The Earth: Interactions Of The Human And The Natural Sciences. MJS Rudwick, History and Sciences Studies U of California. Green College at 3pm. Call 822-1878.

**Linguistics Colloquium Series**
A-Chains: Voice And Aspect. Karen Zagona, Linguistics, U of Washington. Buchanan penthouse at 3:30pm. Refreshments. Call 822-4256.

**Chemical Engineering Weekly Seminar**
Transmembrane Protein Transport In Hollow-Fibre Reactors. Marek Labecki, Chemical Engineering. ChemEng 206 at 3:30pm. Coffee at 3:15pm ChemEng 204. Call 822-3238.

**Physical Chemistry Seminar**
Theory And Application Of High Resolution Quadrupole Mass. Don Douglas, Prof. Chemistry. Chemistry D-225 (center block) at 4pm. Call 822-3266.

**UBC ArtsFest '98 Concert**
Basically Brass. UBC Jazz Ensemble; Bill Watrous, trombone; Fred Stride, director. Chan Centre at 8pm. Call 822-5574.

### *Saturday, Feb. 7*

**Symposium**
The Third Annual Interdisciplinary 19th Century Studies Graduate Student Symposium. No keynote speaker. Green College from 11am-4:30pm. Reception at 4:30pm. Call Charity Mewburn 736-0316 or Jonathan Wisenthal 822-4225.

**Concert**
Simon Fraser University Pipe Band. Chan Centre at 8pm. Call 822-9197.

**Vancouver Institute Lecture**
The Importance Of Story: The Hunger For Personal Narrative. Wayson Choy, author and novelist. IRC #2 at 8:15pm. Call 822-3131.

## Notices

**UBC Zen Society**
Each Monday during term (except holidays) meditation session. Asian Centre Tea Gallery from 1:30-2:20pm. All welcome. Call 228-8955.

**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. 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 Wed.-Sun. 11am-5pm. Tuesday 11am-9pm. Free 5-9pm. Call 822-5087.

**Art Exhibition**
Recalling The Past: A Selection Of Early Chinese Art From the Victor Shaw Collection. MOA Continues to Aug 31/98. Wed-Sat 11am-5pm; Tues 11am-9pm. Call 822-5950.

**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).

**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. Please call Dr. Richard Young's project team, Counselling Psychology Dept. 822-3985.


UBC T-BIRDS HOCKEY

2 for 1 coupon

Bring this ad to the ticket booth for your 2 for 1 admission to a T-Birds game.

Last two weekend of regular season play:

January 23 & 24
vs University of Saskatchewan

February 13 & 14
vs University of Regina

Check out the action at the Thunderbird Winter Sports Centre
Game times 7:30 pm


**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 Jan. 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 Care Services Bldg. Mondays 5-6:15pm. Feb 2-Mar 22/98. $20 per child. Call 822-5321.

**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 Campus Tours**
The School and College Liaison Officer offers guided walking tours of the UBC campus most Friday mornings. The tours begin at 9:30am and run for 90 minutes. Interested students must pre-register for the tours at least one week in advance. Call 822-4319.

**Testosterone Study Volunteers Needed**
Men aged 55-70 with low free testosterone are needed to test the effects of an approved form of oral testosterone (Andriol) on bone mass, body composition and sexual function. Dr. Richard Bebb is the Principal Investigator. For more information or to sign up for this study please contact Mary-Jo Lavery, RN (Study Coordinator) at 682-2344 ext. 2455.

**Classroom Hearing Accessibility Conference**
The Institute for Hearing Accessibility Research is sponsoring a conference, "Interdisciplinary Views of Classroom Hearing Accessibility: The Sum of the Parts". Feb. 21-22 at GF Strong. For more information, please call 822-9474 or 822-4716.

September 1998
*Kindergarten/Child Care & Preschool*
**Open House**
Wednesday, March 4, 1998
5:30-7:00 p.m.

Contact: 822-5343
UBC Child Care Services
2881 Acadia Road, Van.

THE UNIVERSITY OF BRITISH COLUMBIA

# UBC TRANSPORTATION PLAN - DISCUSSION PAPER #1: JANUARY 1998

# The next trek begins - Transportation issues & opportunities that UBC students, staff & faculty must consider - Synopsis

The following is a synopsis of Discussion Paper #1. The full text of this paper is available for viewing and downloading from the World Wide Web at http://www.trek.ubc.ca. Hard copies will be faxed on request to the UBC TREK OFFICE at 822-1304.

## Where we are

The UBC Strategic Transportation Plan arises from and must support the UBC Official Community Plan, UBC Campus Plan, and the UBC president's "A Vision For UBC?" academic and land use planning processes. In a broader context, it must support regional objectives to reduce air pollution and traffic congestion caused by rampant historic growth in use of the private automobile. Pollution and traffic accidents are major public health and safety issues, not to mention their adverse economic ramifications, with far reaching environmental impacts for future generations. As a member of the GVRD, UBC has pledged to do its part by encouraging staff, students, faculty and visitors to reduce reliance on single occupant passenger vehicles (SOVs), through incentives to use more transit, car/van pools, and bicycles, and fewer, better coordinated truck deliveries.

Every morning between 7 and 10 a.m., roughly 22,000 people travel to UBC on foot, by bike, in buses, in cars, in vans and in trucks to study, work, teach, deliver, pick up and/or visit. Nearly 13,000 of us arrive in some form of vehicle, nearly 9,000 driving alone in SOVs. Next to UBC, only Downtown Vancouver has more commuters in the entire Greater Vancouver Regional District (GVRD). This strong commuter demand focus to/from UBC is straining the transportation system. Concerns are being raised by UBC commuters over traffic jams on approaches, lack of space on buses, non-existent bicycle facilities, and availability and price of parking on campus. Neighbouring residents are faced with congestion related traffic accidents, speeding shortcutting vehicles, noise pollution, and air pollution — the loss of their sense of place — by more and more commuters and trucks rumbling through their communities to UBC. As the campus grows, dealing with longer cross campus travel distances between classes is also becoming a challenge. What is the solution?

## Where we are going

Over the next three months, a process to involve all stakeholders — students, staff, faculty, visitors, neighbours, outside agencies — will result in a DRAFT UBC Strategic Transportation Plan to address these issues and challenges. The consultation process will begin with the creation of the UBC TREK Program Centre, a web site, a public transportation forum, this discussion paper on Issues, a monthly trip reduction contest, and a campus-wide travel survey in January. A second public forum in February will be held to discuss the issues raised, and a second discussion paper will be released on Options. Go Green Coordinators will be solicited from all sites to be trained and work with the UBC TREK Program Centre to provide ongoing input to implement the Strategic Transportation Plan. In March, a DRAFT Plan will be released based on input received, for discussion at a third public forum. As this made in UBC solution is created, various pieces will be implemented -- bike racks on buses, improved bike facilities, expanded car/van pools — leading up to the UBC TREK Card Program launch this Fall.

## How we're going to get there

The TREK Program will deal with transportation issues related to commuting to/from UBC, getting around UBC and trucking to/from UBC. As most of the problems facing UBC occur (or at least begin) off campus, it will rely heavily on partnerships between BC Transit, the City of Vancouver, the Ministry of Highways, the GVRD, the Jack Bell Foundation Car/Van Pools, UBC departments, and UBC students, staff and faculty, and others. A campus-wide travel survey will help assess where people are coming from, what their travel needs are, and the potential for TREK Card use and participation. Ongoing consultation through on-campus Go Green Coordinators will ensure a program tailored and responsive to UBC students, staff and faculty, while we move pro-actively to reduce SOV trips. Although the concept still needs fleshing out based on the transportation survey responses, the TREK Card would operate similar to a discounted unlimited (weekdays and weekends) transit pass, but in addition provide the card holder with cost savings on the use of, and facilities related, to other non-SOV commute (and cross campus travel) options — bike, walk, car/van pools. The TREK Card could also replace parking permits, providing preferential car/van pool parking/credits, and/or credits for days not used. Merchant discounts and monthly random draws for loyal TREK Card holders will provide added incentive for broad participation to keep program (and TREK Card) costs low. We expect the TREK Card will cost in the range of $40 per month, depending on participation rates and the services offered, based on a review of other programs and preliminary projections. Sound too good to be true? Similar programs have been in place at other campuses for several years with dramatic success — the University of Washington U-Pass Program is the nearest most notable for example. Others exist at major US campuses, including Stanford and UCLA.

**Bicycle storage lockers outside the War Memorial Gym provide a secure, dry option for campus bicylists.**

**"Every morning between 7 and 10 a.m., roughly 22,000 people travel to UBC..."**

**Many faculty and staff take advantage of the Jack Bell Foundation Car/Van Pools to commute to work on campus.**

## Challenges

While the potential benefits and results are tremendous, the challenges are many. The TREK Card Program is new. It's untested in the GVRD. There are major organizations involved that must be pulled together and co-ordinated into a cost effective program that properly controls trucking and that costs less for UBC commuters than the alternatives. What is it going to really cost? Nothing is for free — right! The more people that participate, the lower the costs will be, and the less the program will need to be supplemented by increased parking rates. Will it be a strong enough inducement to change commuter attitudes and, ultimately, behaviour at UBC? If it is successful, will we have the car/van pools and buses to support the mass exodus from SOV's? The UBC TREK Program Centre has received numerous comments to immediately raise parking prices in B-lot by 50 per cent, to a minimum $3 per day to be equitable with the cost of two bus passes. How do we balance the need to reduce SOV trips with the reality that many people must take their vehicle to UBC and thereby pay the increased parking costs? It will take thorough, open and frank discussions before we can reach conclusions on what is the most equitable, sustainable UBC transportation strategy.

## What do you think?

You've read some of what we're trying to accomplish and why, and the issues — now it's your turn. Your opinion is critical to making a successful made-in-UBC solution. There are many opportunities to participate via our web site, public forums, travel survey, e-mail, phone, fax, letter, Go Green Coordinators. All personal information will be kept strictly confidential. Over the next three months, Think About It!

We have looked back at comments and issues raised since the 1992 Campus Plan was created. The GVRD Livable Region Plan and Transport 2021 Plans, BC Transit Plans have been reviewed for UBC comments raised. We have reviewed public submissions to the 1995 UBC Official Community Plan public hearings. We have scanned the 1996 Vancouver Task Force Report on Access to UEL/UBC. There has also been a bit of information collected on previous student, staff and faculty on-campus surveys regarding transportation issues. We hope we're aware of all the issues, but we know there's likely some we've missed. Over the next three months, tell us what you think!

## For more information contact:

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TREK web site: www.trek.ubc.ca
Off: 822-1304 / Cell: 802-2169/ Fax: 822-3250

**"Your opinion is critical..."**

THE UNIVERSITY OF BRITISH COLUMBIA

UBC STRATEGIC TRANSPORTATION PLAN - DISCUSSION PAPER #1: JANUARY 1998

# Trip reduction suggestions received to date and responses

| Idea | Outside Agency Response | UBC Trek Centre - Position / Next Steps |
|---|---|---|
| Perhaps a more feasible way is to have an inverse parking fee. The more people who are in the car when it arrives at the parking lot, the less it costs for the day. | | Would need some way of "counting" the people in the car; may require toll booths at parking lot entrances again. Great idea in theory; open to suggestions on making it work.will consider in Strategic Transportation Plan (STP) |
| HOV lane on WB 41st, w/West Blvd | BC Transit and City of Vancouver support, but may be up to 7 years away | Support, but why 7 years away? Should consider westbound HoV lane in AM. |
| Also UBC should completely discourage on street parking within the campus road system unless the owner lives on campus. The UBC TransportationDepartment could start a parking permit program | | Agreed, but why allow residents to park on streets? Aren't we trying to get everyone to cut down on using vehicles? |
| As a cyclist I have always been shocked at the dramatically low amount of bicycle racks near the entrance of each building. | | Agreed. Funding for bike racks was cut a few years back. We're hoping to get it re-instituted. Also a bit of an aesthetic concern. |
| Night lighting on 10th | BC Transit own these lights; matter has been referred to them | Agreed that the lighting needs to be improved; who should pay? |
| Night lighting on Chancellor (2) | Province controls this highway and has no funds to improve; have okayed UBC doing | Agreed that lighting needs to be improved, but should UBC pay (estimated cost would be close to a $1 million!) |
| Implement a Yellow Bike Program fashioned after Portland | | Portland's program went under; we're pursuing a contact in Denmark with the Copenhagen Public Bike Program, which is still running strong after several years (and has Coca Cola as a sponsor!) |
| Implement a trip reduction volunteer program fashioned after those in California (In California they're called Employee Transportation Administrators) | BC Transit and the GVRD have agreed to sponsor a UBC Go Green Coordinator training program, which would see volunteers at each work site/student area helping to promote non-SOV travel | Agreed and pursuing: This is a cornerstone of any successful program - Committed volunteers that help get the word out and organize their communities!! |
| For cyclists continuing straight on 16th approaching Wesbrook/ 16th,or straight on East Mall approaching East Mall/16th there should be dashed paint lines across the turning lanes to warn motorists that they are potentially crossing a bicyclist's path | MoTH: Agreed, and have given UBC permission to paint dashed lines when weather permits | It's a winner! Will be done as soon as possible |
| Koerner Library - more, closer bike racks | | Agreed. Will pursue with University Architect |
| SW Marine near 41st/horse crossing - uneven pavement eastbound between shoulder and driving lanes- several cyclists have taken spills | MoTH Response - Will inspect and get back to us. | Pending MoTH response, will pursue. |
| Remove 10th (University Boulevard) bike path, put in bike lanes on roadway - narrowness, bumpiness, high traffic volume, pedestrian traffic and golf crossings, not to mention the darkness and slippery leaves, south s/w is unsuitable for high speed commuting. | MoTH Response - They support the idea, but feel the abutting UEL residents should be consulted prior to implementing | We've applied for a Provincial Grant under the Cycling Network Program to do this work. Letters of support have been received from the MoTH (local office), BEST, and UBC Sustainability office. Will pursue public consultation issue with MoTH and UBC Transportation Advisory Committee (TAC) to try and expedite. |
| Remove parking on 16th through park - aesthetically displeasing (can't I get away from cars anywhere??) and dangerous (door openings), | MoTH aren't convinced it's a big enough problem, especially in view of the request from GVRD Parks staff for more parking | Checking accident history with the RCMP; We need your feedback on this one - had any near misses? Please document them and e-mail us so we can quantify how bad the problem is. We're working on a possible compromise to install signs that say "No Parking 7am to 7 pm Weekdays" when most commuters/cyclists would be in conflict with parked cars. Comments? |
| Increase parking on campus to $5 per day min'm; as it is now, B-lot is 50% less than taking transit | | Parking is a critical element in an overall Transportation Strategic Plan, but we must also ensure that transit, car/van pool, bicycle alternatives are improved. There will likely need to be a parking increase, but it needs to be done with due process and consideration of the issues. |
| Bike lanes on 16th, beside parked cars - they should stay off the bike lanes, to give cyclists a safe place to cycle. I don't enjoy having to swoop in and out of traffic that is going at least 70km/h - it's dangerous, especially at night | MoTH - 16th Avenue consists of two moving traffic lanes in each direction plus a wide shoulder which may be used by bicycles and disabled or parked cars unless prohibited by regulatory signs. | Obviously, the MoTH feel the situation as it is is safe enough. We'll ask RCMP for accident stats over the last few years. The MoTH are caught between the Pacific Spirit Park users, who want to park there, and us who want the parking removed. We'll see if we can get the MoTH to put a compromise in place with "No Parking - Weekdays" regulatory signs. |
| More covered bike parking. | | Agreed. Will pursue as part of new buildings, and retro-fits to existing. |
| Cyclist-activated traffic lights | | Most signals on campus have detector loops in the pavement that would pick up a metal bicycle frame and trigger the signal. You just need to stop your bike over them. If you are having a problem with a particular signal, let us know and we'll have a look at it. |
| Roundabouts (as opposed to traffic circles, a similar but less effective traffic control device) | | Agreed - a very sustainable traffic control device. A roundabout is a form of unsignalized traffic control at intersections that has been around the UK for years, but only recently been gaining popularity in NA. Will be considered as part of future road and development planning. May be applicable at existing locations, but not yet cost effective to implement |
| Rational/safe bikeway system on campus | | Agreed. Will be done as part of Strategic Transportation Plan process - we'll need volunteers to sit on a Bicycle Advisory Committee (our local bicycle users/experts) - Interested? Let me know. |
| UBC Bus Loop - Give buses priority over peds/cars | BC Transit response: We would be generally supportive of measures that give priority to buses arriving and leaving the campus via University Blvd. | We've discussed a concept with BC Transit that they're looking into. It involves making all traffic on University Blvd yield to buses leaving the loop, via "Yield" or "Stop" signs on either side of the loop exit driveway. |
| UBC Bus Loop - Get people to line up properly vs scrum | | This is a common courtesy issue. |
| Use electric train from PNE for on-campus shuttle | | Might work! But may have insurance problems to license for road use. We'll check into and report back. |
| White Bike Idea! I've actually heard people talking about this one, which is an amazing feat at a widely dispersed campus like UBC's. | | As above, we're reviewing the Denmark program. Also, a pilot project is being explored with Agricultural Sciences students. |
| Graded parking', depending on where you live - how close/far, single parents, mobile jobs, etc.. | | Will be considered in STP process. |
| Cheaper bus passes, esp. for students - It currently costs more to take the bus to and from the Uni than it does to park in B-Lot! | | Agreed. Pursuing as part of Trek Program with BC Transit |
| Aggressive PR -I would make it very clear that UBC's policy is to DISCOURAGE SOV's at all fronts. If you drive by yourself, you should feel guilty and will not be receiving the standard, "god-given right" to cheap parking and readily available road space. | | Agreed. Will be discussed as part of STP process |

# THE UNIVERSITY OF BRITISH COLUMBIA

## UBC STRATEGIC TRANSPORTATION PLAN - DISCUSSION PAPER #1: JANUARY 1998

### Suggestions (cont.)

| Idea | Outside Agency Response | UBC Trek Centre - Position / Next Steps |
|---|---|---|
| Use Student labour and ideas - there are many people up there with a lot of energy that you could mobilize for your cause. If students are on your side as well, this will help the cause immensely. | | Agreed. Pursuing with the AMS and GSS as part of our Transportation Advisory Committee in the STP process |
| Ask the AMS to create a committee and get funding to work with you. I did this with a recycling committee that I helped form 3 years ago, we ended up getting $5K and good support for the SUB's recycling plan. | | See above. Also, we are pursuing several grants from the AMS as part of their Innovative Project Fund program, including funds for more bike racks on campus, bike racks on the 99 B-line, public bikes, smart card technology, cargo bikes. |
| Pave the bike path along University Blvd. Why not follow the path of the rest of society and get corporate sponsors to cover some of the costs? "The Norco Bikeway" or the "Rocky Mountain Way" come to mind. | | University Boulevard outside the campus is a UEL/MoTH responsibility and control. We are pursuing improvements with them. |
| I always wondered why the route just below University Blvd. is never promoted as a BikeWay. It is MUCH nicer that the university path, has wide paved bikeways already, starts and ends just 2 blocks north of Uni, and I never see anyone on it!!! | | Again, this is through an area not controlled by UBC. The established path, by the MoTH and UEL is University Boulevard. We'll pass on for their comments. |
| Have a "Bike to School" day or week, sanctioned by the University (or not, if they are too slow). | | Why just bike? Why not Trek to UBC Day including bus, bike, walk, telecommute and pool? Suggested date: March 4th (i.e. forth) Get it?! |
| Work mostly on positive, progressive, friendly ideas, ensuring that there were also a few hardcore programs with some teeth in the background. | | Excellent point. Agreed. |
| End of trip facilities - showers, change rooms in new bldgs | | Agreed. Will be a policy in the new STP |
| Safe bike storage - cheap bike lockers, dispersed | | Agreed, as above |
| Change the Route 44 frequency in the afternoon to 15 min. between 4:00 and 5:30 PM to compare with the morning. This would compare with the schedules of other North Van buses | #44 went in at introductory service levels in 1997. We plan to improve service incrementally over the next few years as ridership grows and as we get sufficient resources. One important difference between #44 and other services to campus is that we plan to continue running it through the summer months, albeit at reduced AM peak frequencies. | Agreed. |
| Make it safer. One aspect of increasing safety is cyclist education. Cycling BC (the BC sport provincial cycling body runs a 2 day, 2 evening cycling in traffic course called CanBike II). UBC should adverstise the course, coordinate a course at UBC, and/or subsidize the costs ($100). | | Will make contact with Cycling BC and BEST to discuss a UBC course rate. Will incorporate if possible into TREK Card. |
| See if you can improve the signage to the motorcycle shed near the north parkade so riders can access it from both directions. | UBC Parking Office | Parking office staff will review existing signage and implement improved signage as needed. |
| The B-Line 99 is a great improvement, but for me, it tends to end its express routes too early in the evening. I have often thought a useful substitute would be to have some way to "advertise" the need for a ride or the opportunity to offer a ride by car. My suggestion for your web site is to set up what might be called a car-pool-booking-agency. | B-Line evening service is proposed in the 1998/99 Annual Service Plan. | Support BC Transit service improvement plan.<br><br>The bulletin board is a good idea and will be part of the TREK Card system |
| I think we should be looking very hard at Telecommuting as a way of reducing vehicle traffic to and from UBC. With current technology many could work/study at home one or more days per week. Obviously there are many who couldn't do this, but if those of us who presently commute to the campus every day could, on average, work/study at home one day per week, this would have a significant impact on traffic. | | Agreed, this has potential and will recommend as part of STP action plan that ways to promote be explore via the UBC transportation advisory committee |
| Freeway-style intersections at 16th: the suggestion to indicate to left-turning drivers that they are crossing a bike lane is good, but also needed is a sign for drivers turning *right* on the exit at Wesbrook that they are crossing a bike lane (many cyclists continue straight here to East Mall). In Europe and North America, I've seen flashing caution signs indicating to drivers that cyclists are crossing their paths at the off-ramp style exit. | These intersections are under MoTH control. Changes will be discussed with them | We've received approval from MoTH to paint dashed lines across each of the turning lanes (see above). If concerns persist, will re-visit this suggestion. |
| In consultation with cyclists, establish patterns of bike use on campus and through campus, and designate several north-south and east-west routes. These should be signed and well marked, and follow natural patterns of bike traffic. In many cases this may just mean painting lanes on the roads. In other cases, parts of the boulevard/sidewalk, etc. could be used. When there is new construction/road revision - plan whenever possible/appropriate inclusion of bike lanes (!!) | | Will be done as part of STP, especially in consultatation with cyclists! |
| Work with GVRD/Ministry of Highways/City of Vancouver to establish formal bike lanes/ways on approaches to UBC (16th, SW Marine Dr., NW Marine Dr., improve University BLVD. lane). Make sure these are designed for commuters, who are generally interested in getting to and from work as quickly and easily as possible, and aren't so interested in aesthetics (e.g. a lane next to traffic, as along the margin of 16th, would be best). | Every route requested is a designated bike commuter route by City of Vancouver, except for 16th Avenue (future route potential). MoTH response: Generally all roadways under the jurisdiction of the Ministry of Transportation and Highways are open to all classes of vehicles including bicycles. Bicycles are prohibited on freeways and some designated bridges. | Agree with need to provide for commuter bike facilities. |
| 16th between Dunbar and UBC gets heavy bike traffic. If the city is not considering this as a bike route, they should be made aware of the fact that as one of the most direct bicycle routes to UBC, this route is heavily used by bicylists and should be a prime candidate for a bike route. | Vancouver is currently developing the Ridgeway West Greenway/ Bikeway Extension in the Dunbar/West Point Grey Area. It connects the existing Ridgeway Greenway from Granville and 37th to the Off-Broadway Bikeway at about 8th and Discovery. Although 16th is not being considered at the moment, 18th Avenue from Dunbar to Camosun is being reviewed. After this project is completed, a connection from Camosun to UBC via 14th or 16th is a strong possibility. Cannot promise anything at the moment. Doug Louie P.Eng, M.Eng., Bicycle Coordinator, City of Vancouver. | Support 16th Avenue route development; will work with City of Vancouver on its implementation. |
| Would it be possible to have some kind of online petition or just an info site for commuter rail to UBC? The more students that know that a rail line is even remotely possible, the better the chances for grassroots support. | | Agreed. Will add to our Web Site, which is at **www.trek.ubc.ca** |
| Encourage bike riders to have front lights when riding at night. Many of them speed on the wrong side of the path; it's resulted in at least one accident and broken ribs already. Suggestion: Warn them through the student newspaper, and then have the RCMP set up an information post at the St. Anselm's Church and stop and educate negligent cyclists. Sell bike lights at UBC Bookstore give away as prizes. Need wider path next to golf course too. | RCMP agree with the concern and will be conducting information posts to educate cyclists on the University Blvd. path to use lights at night | Agreed. Have asked RCMP to conduct information sessions when possible over the next week or so to remind everyone, cyclists included, that they are responsible for bike path safety. Will also pursue possible night light sales/prize ideas. On-road bike paths would alleviate the concern over path width. |

**Respond to the 1998 UBC Transportation Survey: and win!** For more information, see p. 11 this issue.

# Leaders of Tomorrow

## Volunteer Recognition Awards

***Call for nominations***

Volunteer Vancouver is seeking nominations for its eleventh annual Volunteer Recognition Awards.

The Leaders of Tomorrow Awards, co-sponsored by the University of British Columbia and Simon Fraser University, honour young people for their outstanding contributions and strive to inspire others to similar service. These awards recognize youth 17 years of age and under, and separately, youth aged 18 to 25.

We know there are many students at the University doing volunteer work in their community. This is your opportunity to help us recognize these students.

Nomination forms are available from Volunteer Vancouver at 875-9144.

**Deadline for nominations:** Feb. 6, 1998


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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 February 5 issue of *UBC Reports* is noon, January 27.

## 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.

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## Accommodation

**2 BR** 2 bath furnished apt. Bright near VGH. All amen. $1500/mo. Underground parking. Avail immed. N/S, N/Pets. Call 872-3666.

**CAMILLA HOUSE** Bed and Breakfast. Best accommodation on main bus routes. Includes television, private phone and bathroom. Weekly reduced rates. Call 737-2687. Fax 737-2586.

**FURNISHED 1 BR GARDEN** level suite. Five min to UBC. Private entrance, N/pets, N/S. Suitable for one occupant. $900 incl. util. Avail. Jan 15. Call 224-9319.

**FURNISHED** 1 BR and den with ocean view, computer. Luxury: squash court, pool, sauna, steam room, parking. Pacific/Hornby near seawall and Granville Island ferry. Two months or longer. Rent neg. July/November. E-Mail sumeria@axionet.com or call 662-3477.

**HAMPTON PLACE** 2 BR suite avail. immed. South facing on campus with facilities incl. pool, jacuzzi, sauna, gym, lounge. $1500 unfurnished. $1700 furnished. Call 222-1304.

## Shared Accommodation

**SHARED ACCOMMODATIONS** with mature grad student. 2 BR house (fireplace, hardward floors). Near Children's Hospital (25th and Cambie). On direct bus line to UBC (#25). $525 plus 1/2 util. Call Pat 871-0275.

## Housing Wanted

**SABBATICAL HOUSING** Two prof. couple (no ch., one cat) desire West Side or N. Van. furnished house or apt. Dates flexible, May-mid-Dec. 1998. Exc. refs. Have twice before rented sabbatical houses. E-mail buchignani@hg.uleth.ca or call (403) 328-9155 (messages).

**HOUSE TO RENT** Near UBC Aug. 1-Mar. 31/99 by non-smoking Swiss family with two children. E-mail feldman@math.ubc.ca or call 734-3656.

## House Sitters

**EXPERIENCED** Housesitter (retired college staff gentleman) available for short or long term stays. Yard, garden and pet care ok. E-mail bula91@hotmail.com or call (403) 346-4064.

## 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.

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We are looking for congenial companions for a chartered-yacht cruise of Turkey's south coast, May 10-17, 1998. Cost approx. $900 CAD per person; airfare not included. Call Tony Podlecki 224-3877.


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Stephen Forgacs photo

## Mass Moving

**Main Mall becomes a busy thoroughfare between classes as a good portion of UBC's 32,593 students walk or cycle from building to building.**

## Campus works

### Campus Connectivity Project

# Connecting campus at high speed project goal

**by Stephen Forgacs**

*Staff writer*

What do public school teachers, UBC graduate and undergraduate students, professors, special needs children, farmers and university administrative staff have in common? They represent just a few of the groups on and off campus that stand to benefit as UBC moves toward becoming a technologically "connected" campus.

Prof. Perry Leslie, head of Educational Psychology and Special Education, says the Campus Connectivity Project (CCP) — a major initiative to provide high-speed connectivity linking every desktop in UBC offices, classrooms, residences and labs to each other as well as to the outside world and the Internet — will benefit groups and individuals on and off campus.

Connectivity across campus will allow faculty in his department to offer special programs and courses, such as one for public school teachers on the inclusion of special needs students in regular classroom situations.

"With direct access to information technology, we'll be able to build courses and make them available throughout the province and beyond," says Leslie.

"Many faculty members in my department are really enthused about multimedia work and the opportunity to use technology to support teaching and research. The ability to access this technology from our workplace will be a tremendous asset."

The Campus Connectivity Project was initiated in 1996 to attend to the clear need to provide complete high-speed network connectivity throughout the campus. A new, technologically superior network will enhance teaching and research capabilities, allow greater use of technologies such as video conferencing and multimedia, and greatly improve high-speed, paperless communication within faculty and administrative domains and across campus.

Elaine Borthwick, admissions adviser in the Faculty of Law, says the project will allow her to greatly improve efficiency in her area and, in so doing, provide better service to the students, faculty and staff who rely on quick and convenient access to information.

"Connectivity is crucial for the Faculty of Law," she says. "For example, all of the admissions information we collect in the faculty has to be re-entered into the Registrar's files. Our inability to connect directly with some administrative systems leads to an unnecessary duplication of work and creates hassles for students.

"With connectivity we will be able to download admissions information directly to the Registrar's system and retrieve information with much greater ease."

"The scope of the project is immense," says Prof. Richard Tees, chair of the CCP Steering Committee. "For one thing, there are 450 buildings spread over the 400-hectare campus. Of these buildings only 100 are currently interconnected with optical fibre cable to the existing UBC network. Off-campus, UBC-related sites, particularly in our teaching hospitals, don't have appropriate connectivity to campus."

By the time the new high-speed network is completed, an additional 20,000 ports will have been installed and the legacy of copper wire in many currently "connected" buildings replaced, Tees says. A 1995 survey revealed that fewer than 46 per cent of UBC's faculty and 65 per cent of its desk staff had connections to the current network.

"If UBC is to remain a major teaching and research university and we are to improve our teaching, research and administrative functionality, we need to put this network infrastructure in place," Tees says. "UBC's most important resource is its people. We have to provide the infrastructure, the tools, to allow the members of the campus community to make effective use of their energy and talent."

As part of the first phase, work to connect the Curtis law complex to the network is already underway and the design and planning for Buchanan, Chemistry, the Forward building, Hebb, Hennings and Wesbrook are at an advanced stage.

The project is guided by a management team, headed by Ted Dodds, associate vice-president, Information Technology, and the steering committee composed of student, staff and faculty representatives selected based on their special concerns and expertise in areas such as classroom, student and library access, network security, and local area network operations. A network of project partners from each faculty and vice-presidency has been created so that as each building, and each space is connected, its users will have helped plan and sign-off on the work.

Questions or comments on the project can be addressed to Susan Mair at 822-3938 (e-mail: susan.mair@ubc.ca) and to Steering Committee Chair Richard Tees at rtees@cortex.psych.ubc.ca. Complete information is available on the project's Web page at http://www.ccp.acit.ubc.ca/

# People

*by staff writers*

**David Measday** has been appointed dean pro tem of the Faculty of Science effective Jan. 1, 1998. Measday, a physics professor and associate dean in the faculty, will serve as dean until Aug. 31, 1998, or until a new dean is appointed. He takes over from Barry McBride who resigned as dean following his appointment to the position of vice-president, Academic and Provost.

Before coming to UBC Measday spent six years as a research fellow at Harvard and Switzerland's Geneva University, followed by two years as staff physicist in Geneva. He became a professor at UBC in 1975 and was appointed associate dean in 1990.

• • • • •

**Joanne Emerman** has been named associate dean, Research, in the Faculty of Medicine. She will coordinate research operations as well as the 16 graduate student programs in the faculty.

Emerman, a professor of Anatomy, has been a faculty member since 1980, and was elected by faculty to UBC's Board of Governors in 1996. She has served as acting head of the Dept. of Anatomy and chaired the Faculty of Medicine Curriculum Evaluation Committee.

• • • • •

**Chris Brown**, a former career diplomat with extensive experience in foreign affairs in the Asia Pacific region, is UBC's new director of International Relations.

Reporting to the vice-president, External Affairs, Brown will be responsible for supporting and representing the university on a wide range of international programs and initiatives.

Brown, who starts March 1, has been working on campus since 1996 in the capacity of Foreign Service Executive Interchange Office — Visiting Scholar.


**All UBC students, staff & faculty**

# Read your e-mail

**starting Wednesday, Jan. 21**

# & Win!

## 1998 UBC Transportation Survey

A "made-in-UBC" Strategic Transportation Plan requires your input — **Tuum est!**

A letter and questionnaire has been sent by the UBC Trek Program Centre to all UBC e-mail addresses regarding the future of transportation to, from and on the UBC campus.

Students, staff and faculty are urged to respond on this very important issue to be eligible to win one of over $4,000 worth of prizes, including:

- 1 of 2 **"Trek" mountain bikes** (total value over $1,200)
- 1 of 12 **monthly transit passes** to anywhere BC Transit serves (total value over $1,200)
- 1 of 12 **monthly van pool vouchers** from the Jack Bell Foundation (total value over $1,200)
- 1 of 5 **$20 gift certificates** for local merchants
- 1 of 4 **$50 gift certificates** for the UBC Bookstore

While telling us valuable information on how to make a "made in UBC" Transportation Plan that works best for everyone, you'll be eligible to win one of the 35 randomly drawn prizes above, to be awarded at noon on Thursday, Feb. 5 in the SUB Conversation Pit. Be there!

All responses will be kept strictly confidential and used only for transportation planning purposes, in accordance with UBC and Provincial Freedom of Information/Protection of Privacy Regulations.

Blank questionnaires will also be faxed to UBC students, staff and faculty on request.

**To find out more** about the UBC 1998 Transportation Survey, the UBC Strategic Transportation Plan and/or the UBC TREK Card Program, feel welcome to contact Gord Lovegrove at the **UBC TREK Program Centre** via:

e-mail: lovegrove@exchange.ubc.ca
web site: **www.trek.ubc.ca**
phone: 822-1304

# Bones seen on big screen bring student study to life

by Hilary Thomson

*Staff writer*

Students just can't take their eyes off a new video in the Faculty of Medicine's Anatomy Dept.

It's not a movie or a game, however. It's the Ultrascope, a new video instruction system specifically designed for teaching anatomy.

The first such unit in Canada, the sophisticated magnification device allows instructors to demonstrate anatomical structures and transmit the images to 180 students in two anatomy laboratories.

The system incorporates a high resolution colour video camera and zoom lens attached to a suspended portable swing arm. The camera, positioned over a display table, is manipulated by hand or by foot pedals to show the specimen from various angles.

The resulting colour image can be magnified up to 28 times and displayed on the six 29-inch monitors in each lab. A cordless microphone broadcasts commentary to both labs. The entire unit is mobile and can be used in either lab.

"This system is a quantum leap forward in our teaching capability," says Wayne Vogl, the Anatomy professor who suggested buying the unit. "The magnification and resolution is incredible — it's been a joy to work with this piece of equipment."

A brochure advertising the Ultrascope came across Vogl's desk just when the new medical/dental undergraduate curriculum was being designed. He saw its potential for meeting the challenges presented by the new curriculum.

The old curriculum called for 250 hours of gross anatomy instruction per year. Students spent a lot of time in labs with faculty demonstrating major anatomical points to one small group at a time.

**"This system is a quantum leap forward in our teaching capability."**

— Prof. Wayne Vogl

The new curriculum balances anatomy with other disciplines and clinical skills, focusing on problem-based learning tutorials. The number of hours available for lab work is greatly reduced.

And because Dentistry and Rehabilitation Sciences students share the gross anatomy laboratories with medical students for the first two years of the new curriculum, greater numbers of students were moving into already crowded labs.

Both laboratories had to be redesigned to accommodate these changes. The Ultrascope, which arrived from New Zealand the night before classes started last fall, became an essential element of the plan.

"The Ultrascope allows us to demonstrate dissection to large groups of students quickly and in detail," says Vogl. "It has really expanded what we can do with anatomy labs.

"It allows faculty and students to examine specimens simultaneously, working and discovering together," says Dr. Andrew Chalmers, associate dean, Undergraduate Education, Curriculum, in the Faculty of Medicine.

The system has a huge potential, according to Vogl.

The anatomy labs can be electronically linked to the teaching hospitals and IRC lecture halls, allowing for live broadcasts of surgery and dissection. Entire presentations or single images can be recorded for use in distance medical education.

"There are only two other Ultrascopes in North America — one in Virginia and one in Wisconsin — so this one's getting a lot of attention," says Vogl.

Purchase of the Ultrascope was made possible by a grant from the Mr. and Mrs. P. A. Woodward's Foundation.


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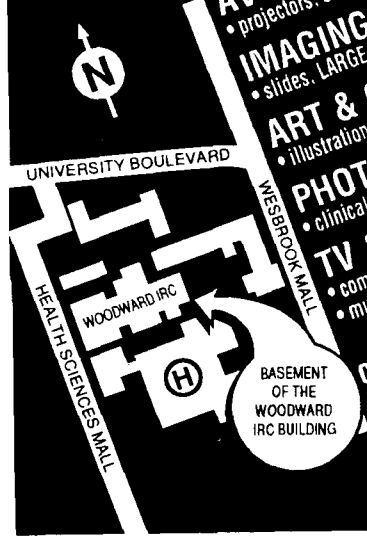


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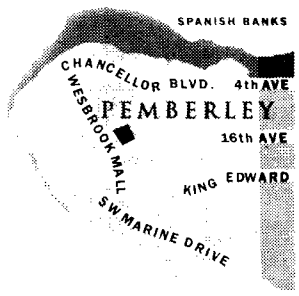


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