

INSIDE

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Hot space and black holes

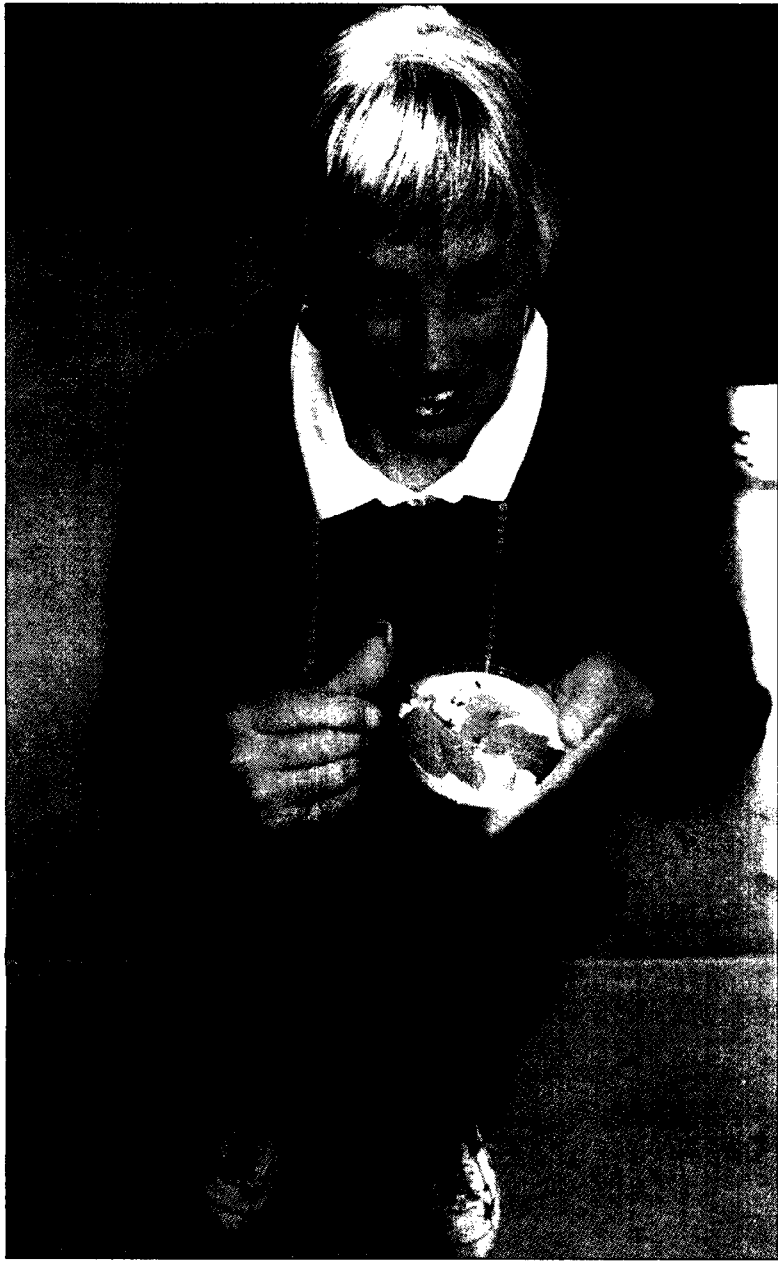
8 **First Nations growth**

New programs, new visions

ubc reports

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Archives Serial



AGRICULTURAL SCIENCES Prof. Judy Myers introduces us to the cabbage looper, a particularly voracious caterpillar that invades greenhouses and feasts on all manner of fruits and vegetables. She is currently investigating naturally occurring viruses that like to eat the looper, leaving the produce for us. *Don Wells photo*

New microbial pesticides battle old biological bugs

Researchers are using naturally occurring viruses to fight the war against greenhouse pests

by **Don Wells** staff writer

UBC AGRICULTURAL SCIENCES Prof. Judy Myers knows that the rising cost of energy isn't the only thing bugging beleaguered greenhouse operators. Insect pests that help themselves to valuable crops are also taking a big bite out of profits.

As part of the new Biological Control Network funded by the Natural Sciences and Engineering Research Council of Canada, researchers from across Canada are focusing on developing new microbial pesticides and techniques to maintain effective biological control in greenhouses.

One of Canada's leading ecologists and a UBC faculty member since 1972, Myers will concentrate on cabbage loopers, caterpillars that thrive on tomatoes, cucumbers and green peppers. These pests have a naturally occurring viral disease that can be very effective in reducing their population.

"By studying the interactions between the disease and the caterpillars in the greenhouse, we hope to develop an effective, spe-

cific and safe new control procedure," says Myers. "This is a good example of using basic research in ecology and genetics to solve an applied problem."

Greenhouse production of vegetables and flowers generates approximately \$1.5 billion in annual sales in Canada and employs some 35,000 people. The industry has been expanding rapidly in the Lower Mainland where cool summers and mild winters reduce heating and cooling costs.

Industry workers and consumers alike are increasingly concerned about the use of chemi-

cals in food production. Since crops grown with few or no pesticides often sell for higher prices, greenhouse growers in BC have been innovative in adopting pest controls that are largely biological: predators, parasitoids and microbials. When new pests arrive, many through international shipments, new biological control agents have to be found.

The network's research will be carried out over the next five years and in BC will also involve researchers from Agriculture and Agrifood Canada, Simon Fraser University and the University of Victoria. Even with such concentrated effort, however, Myers doubts that the war on green-

see *Bugs* page 2

Sage source for tasting rare BC wines

Bistro's cellar sports some star-quality wines

OFFBEAT

by **Don Wells** staff writer

THE SURGING POPULARITY of both water from France and wine from Canada represents a rather peculiar shift in gastronomic convention.

While the former is indeed puzzling, the latter surely is not, especially for anyone who has followed the success of some of BC's upstart wineries. Sadly, however, the problem is one of availability.

Campus oenophiles frustrated by the dearth of BC's best can take heart. Sage Bistro in the University Centre is truly an oasis, particular-

ly for those perpetually on the lookout for all-too-rare vintages from the Okanagan's Blue Mountain and Burrowing Owl vineyards.

For the most part, these wines can only be purchased from the vintner or in select private stores and fine restaurants. Enter Gary Edmundson, University Centre manager and the visionary behind the resurgence of the former Faculty Club as a popular lunch destination.

The former chef at Star Anise insists that the task of building a cellar is never complete. But how does he manage to outperform virtu-

ally every other Vancouver eatery for both availability and price?

"I've got a lot of friends," he says wryly. "I also stay on top of allocations and date of releases, and when I find something I like, I take big hits."

How big? The 1996 Blue Mountain striped label reserve pinot noir see *Wine* page 3

Gary Edmundson with some rare vintages from the Sage Bistro cellar. *Don Wells photo*



University growth and development on track

New chairs, more funding, IT upgrades, Liu Centre and the move downtown are important advances

TREK 2000

UBC IS MAKING great strides toward targets set in 1998 when it launched the *Trek 2000* vision for the university in the 21st century, according to this year's *Trek 2000* annual report.

"Since the publication of *Trek 2000* in the November 1998, we've achieved a number of significant goals," said UBC president Martha Piper of *Trek 2000: The Story So Far...2000-2001 Report* released in early July. "In this second report, we've provided an overview of some key *Trek*-related actions completed during 2000-2001."

Trek 2000 outlines a series of principles, goals, strategies and timetables to guide UBC through the next decade with a focus on initiatives for people, research, com-

munity, learning and internationalization.

Some of UBC's achievements over the last 12 months in these areas include:

- Under the people pillar, appointing 80 new full-time tenure-track faculty and approving 37 Canada Research Chairs under the new Senate-approved Academic Plan.

- Securing increased provincial and federal funding for research, including \$23.5 million for 195 science and engineering projects in the Natural Sciences and Engineering Research Council of Canada (NSERC) annual grants competition, and leading the country for the second year in obtaining Social Sciences and Humanities Research grants.

- Establishing a community presence in downtown Vancouver with the opening of the storefront Learning Exchange on Main Street to be followed by UBC's new downtown campus at Robson Square opening in fall 2001.

- Incorporating information technology into the learning environment by upgrading an additional 10 per cent of classrooms and labs and adding 1,760 connections to the campus network.

- Strengthening UBC's international links with the September 2000 opening of the Liu Centre for Global Studies, headed up by former foreign affairs minister Lloyd Axworthy.

For a copy of the *Trek 2000* report contact the president's office.

Royal Society of London discovers UBC physicist/astronomer

Sonic black holes, accelerating particles, quantum physics and hot space earn recognition for scientist

by Hilary Thomson staff writer

BILL UNRUH BECOMES UBC'S newest member of the Royal Society of London in a ceremony in England July 13. He is one of four Canadians to be so honoured.



Prof. Bill Unruh

A professor of Physics and Astronomy and a faculty member since 1976, Unruh is recognized for solving problems of science found at the crossroads of quantum physics, gravitational theory and cosmology.

As an explanation for his success, Unruh refers to his favourite quotation from poet William Blake: "If a fool would persist in his folly, he would become wise." I'm grateful that society allows

me and other scientists to persist."

He is best known for his work showing that particles of matter that undergo extreme accelerations behave as though empty space around them is hot, with the temperature in proportion to the acceleration. The effect relates to physicist Stephen Hawking's discovery that black holes are also hot objects. Black holes are regions of space having a gravitational field so intense that no matter or radiation can escape.

Unruh also discovered a phenomenon that can exist in sound and is similar to something Hawking called black hole evaporation

Sonic black holes—which Unruh dubs dumb

holes—exist in a region where a fluid flows faster than the speed of sound. Unruh argues that 'hot' sound waves are created in these conditions through a poorly understood quantum process related to black holes.

Another of Unruh's research areas is quantum computation: using quantum laws to design computers able to solve certain problems billions of times faster than traditional equipment. He also

teaches Arts undergraduates about the physics of music. Using items such as dissected guitars and hoses, he introduces students to physics and how a physicist thinks.

"A physicist always looks for the similarities in things," he says. "A child swinging and a trombone playing have much in common from a physics perspective. The oscillating or swaying movement is the connection."

The first director of the Canadian Institute of Advanced Research (CIAR) Cosmology program, Unruh credits CIAR for creating a network of researchers that makes Canada one of the world's top-ranked countries for physics research.

Bugs

Continued from page 1

house pests will ever end.

"I think we can come close, but there's always potential for complications," she says. "I'm going to retire in five years, though, and in the meantime I would really like to find a virus that works."

The network also aims to train students in an effort to establish Canada as a leader in the area of biological control. One student who represents the future generation of front-line experts is PHD

"This is another endorsement of the stature of our researchers in the international academic community—Bill is simply outstanding," says Indira Samarasekera, vice-president, Research.

Founded in 1660 to recognize contributions to science, the Royal Society of London has 1,300 members and is regarded as an academy of the world's most eminent researchers.

Other UBC Royal Society members include Mathematics Prof. Emeritus Colin Clark, Prof. Emeritus of Microbiology and Immunology Julian Davies, Physics Prof. Emeritus Maurice Pryce, and Zoology Prof. Dolph Schluter.

candidate Alida Janmaat. Working with Myers, Janmaat is studying the resistance of cabbage loopers to a bacterial control agent specific to caterpillars, which doesn't affect other insects that may themselves be control agents.

In addition to greenhouse pests, the Biological Control Network is also developing natural biological enemies to control pests that prey on nursery trees. The interdisciplinary network is headquartered at the University of Montreal and consists of 42 researchers from universities and government labs across Canada.

ubc reports

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LETTERS POLICY

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 to the UBC Public Affairs Office (address above); by fax to 822-2684; or by e-mail to janet.ansell@ubc.ca

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THE UNIVERSITY OF BRITISH COLUMBIA

Public Information

Meeting for the campus community

TRIUMF ISAC II Expansion Project

Wednesday, July 18, 2001

12:30 - 2 p.m.

Maple Room, Ponderosa Bldg.,
2071 West Mall

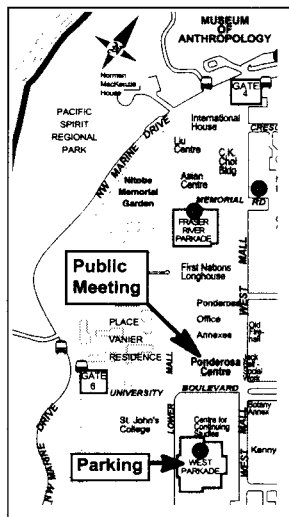
To present and review the schematic design for the TRIUMF ISAC II expansion project proposed to be constructed north of the existing ISAC I facility at the TRIUMF site. The proposed 4,000 square-metre building is a two-storey research facility.



This event is wheelchair accessible. Individuals needing assistive listening devices, captioning, or information on alternate media should contact Gisela Haarbrucker at 822-9560 one week in advance of the meeting.

FREE PARKING will be available in the West Parkade. Please pick up a parking pass after the meeting in order to exit the parkade without charge.

Questions or for further info: Jay Jethwa, Campus Planning & Development, 822-8251 or Jim Carruthers, 822-0469.



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Symposium on Computer Controlled Drug Therapy

July 13-14, 2001

July 13: 2:30pm: Keynote Speech by Dr. Robert Q. Y. Tham, Professor, Department of Biomedical Engineering, University of Wisconsin; presented in conjunction with IEEE.
4:00pm: Panel Discussion on the future of computer controlled drug therapy. Location: MacLeod Building, Room 418, 2356 Main Mall, UBC.

July 14: 12:30pm: Presentations of collaborative research at UBC on computer controlled drug therapy. Location: Instructional Resource Centre (IRC) Wood Theatre No. 3, 2194 Health Sciences Mall, UBC.

Hosted by: The Center for Anesthesia & Analgesia of the Faculties of Medicine and Applied Science, Departments of Anesthesia, Electrical & Computer Engineering and Pharmacology & Therapeutics (Division of Control Systems), UBC. For more information, please visit:

<http://www.pharmacology.ubc.ca/cspt/compdrugrx>

Faculty of Medicine treks to Nepal

University of Kathmandu adopts problem-based learning

by Hilary Thomson staff writer

A TREKKING TRIP to Nepal was the springboard for the Faculty of Medicine's involvement with a new medical school at the University of Kathmandu.

Carol-Ann Courneya, an associate professor of Physiology who contributed to the faculty's shift to its new problem-based learning (PBL) curriculum, paid a visit to a University of Kathmandu colleague, Dr. Arjun Karki, while on a trekking vacation last October.

Karki and other faculty members became very interested in the Faculty of Medicine's learning approach and requested Courneya's help in exploring innovative teaching strategies for Kathmandu University Medical School (KUMS) which plans to admit its first 45 students in August.

"This school is unique in Nepal," says Courneya, a UBC faculty member since 1990. "It is privately funded but does not seek to make a profit. Its goal is to produce doctors who are technically compe-

tent and socially responsible."

This spring, Courneya travelled to Nepal with former Medicine dean Bill Webber who helped UBC's medical school switch to the PBL curriculum. Together with colleague Martha McGrew from the University of New Mexico, they spent two weeks conducting PBL tutor training and case-writing workshops for KUMS faculty.

UBC's approach, which uses a mixture of problem-based learning, lectures and labs, was attractive to the Nepalese, says Webber.

"I was impressed with some very bright students," says Webber of the young people who assisted in the workshops. "Their level of knowledge at the high-school level was quite remarkable."

Most Nepalese students are educated using traditional teacher-centred approaches and are accustomed to a strict formality be-

tween student and teacher, says Courneya. When students role-played tutorials with faculty members she was thrilled at how the students thrived in the new learning environment.

"One student said that for the first time she was able to think with her own mind, not her professor's mind," says Courneya, who is a 3M Teaching Fellow and also holds a UBC Killam Teaching Prize, as does Webber.

Representatives of KUMS made a recent visit to UBC while on a tour of medical schools. Courneya and

Webber arranged for information sessions with dean of Medicine John Cairns, medical faculty and administrators and Larry Sproul, director of UBC's International Liaison office.

UBC is developing a memorandum of understanding with KUMS to encourage educational and intellectual exchange. UBC basic science and clinical science professors or post-doctoral students who may be interested in teaching at KUMS can contact Courneya for further information at caotter@interchange.ubc.ca.



summer sale

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July 13-21, 2001

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Wine

Continued from page 1

has long been sold out, but Edmundson is still sitting on a sizable allotment. And the punchline is that he insists on a mere ten-dollar mark-up, rather than the 100-to-150 per cent that is the industry norm.

Recently, Edmundson initiated a tapas menu and patio service from 3:30 p.m., enabling those for whom lunch is a desk-bound activity to quaff a carafe in natural splendour and with culinary elegance.

SUMMER DINING
Effective July 3rd, 2001

■ Bread Garden	7:45am - 4:00pm
■ Barn Coffee Shop	7:45am - 3:30pm
■ Edibles Snack Bar	7:45am - 1:45pm
■ IRC /SUBWAY	8:00am - 3:00pm
■ MOA Cafe inside MOA Lobby	10:00am - 4:00pm
■ Trek Express/Pizza Pizza	7:30am - 3:00pm
■ 99 Chairs	8:00am - 4:00pm
■ Pond Cafe at the Ponderosa	8:00am - 2:30pm
■ Pacific Spirit Place at S.U.B.	M-S 7:00am - 2:15pm
■ PIZZA PIZZA	M-TH 5:00pm - 7:30pm
■ SUBWAY	M-Sat 8:30am - 7:30pm
■ Espresso On the Go	M-F 7:00am - 3:00pm
■ Steamies at the Bookstore	M-F 9:30am - 3:00pm
■ SAGE at the University Centre	M-F 11:00am - 2:30pm
■ Sage Tapas	3:30pm - 8:00pm
■ Gage Mini Mart at Walter Gage	7:30pm-1:00pm/4pm-10pm

For more information: call UBC - FOOD (822-3663)
www.foodserv.ubc.ca

UBC THE UNIVERSITY OF BRITISH COLUMBIA
ASSOCIATE VICE-PRESIDENT,
INTERNATIONAL

Nominations and applications are invited for the new position of Associate Vice-President, International. Internationalization is a pivotal component of UBC's *Trek 2000* vision document and the *Academic Plan*. This position is being created to focus and enhance UBC's international activities.

The Associate Vice President International will report jointly to the Vice-President, Academic and Provost and the Vice-President, Students. The individual will possess a broad and strategic vision for international activities and the role of UBC within an integrated global learning and research environment, as well as a broad knowledge of the academic and administrative aspects of UBC. The successful candidate will have extensive experience in dealing with, and proven success in developing a variety of international projects. Responsibilities will include:

- advising the President on international matters
- co-ordinating the President's international involvements and visits
- developing policies relating to academic programs and the recruitment and support of international students in collaboration with the Associate Vice-President, Academic Programs; the Associate Vice-President, Student Development and Services; the Registrar; and the Directors of international units
- working with the Faculties to promote and develop international programs
- chairing the Executive Committee on International Activities (ECIA) and co-ordinate the Committee's activities
- acting as the University's contact officer for U21
- acting as the University's 3x3 administrative officer
- representing the University internationally as appropriate and develop a watching brief on international academic initiatives
- maintaining a high profile in international administrative circles

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. The search is limited to candidates internal to the University. Written nominations for the position, or applications supported by a cv and the names of three referees, should be submitted to Charlotte Passmore in the Provost's Office, 6328 Memorial Road, email charlotte.passmore@ubc.ca, by Aug. 10, 2001

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➤ Complimentary consultations available for UBC Faculty and Staff ◀


- Retirement and Estate planning ◀
- UBC pension expertise ◀
- References available ◀

"I am completely satisfied with the service I am receiving from Don."
M. Dale Kinkade, Professor Emeritus of Linguistics, UBC

"Frank and Don made me feel very comfortable with their advice and long range planning. Their knowledge of the faculty pension plan is also a plus for UBC professors."
Dr. J. H. McNeill, Professor, Pharmaceutical Sciences, UBC

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MONDAY, JULY 16

International Conference

30th Annual International Herbal Conference. Various speakers. First Nations Longhouse at 8am. Continues to July 21. To register call 604-521-5822.

Vancouver School Of Theology Summer School

Preaching As Local Theology And Folk Art. Lenora Tubbs Tisdale. vst from 8:30-10:30am. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Summer School

Introduction To Lectio Divina. Cynthia Bourgeault. vst from 8:30am-3:30pm. \$352; \$317 group; \$176 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Physics Summer Camp

Fun With Physics Ages 6-9. Hennings from 9:30am-4:30pm. Continues to July 20. Call 604-822-3853.

White Masculinity In Late Nineteenth And Early Twentieth Century British Columbia. Renisa Mawani, Peter Wall Institute. Green College at 11:30am. No outside food or beverages please. Call 604-822-1878.

Education Scholars In Residence Lecture

The Tragic Sense Of Teaching About Trauma. Assoc. Prof. Susan H. Edgerton, Education, Western Michigan U, Scarfe 310 from 12noon-1pm. Call 604-822-5214.

Vancouver School of Theology Public Lectures

Mystical Hope: Trusting In The Mercy Of God. Cynthia Bourgeault, Anglican priest, teacher, Contemplative Society. vst Epiphany Chapel from 7:30-9:30pm. Refreshments. Call 604-822-9815.

THURSDAY, JULY 19

Board Of Governors Meeting
Open Session begins at 8am. OAB Board and Senate room. Fifteen

Audiometry Study Group. Various speakers. TBC at 6pm. Continues to July 27. \$1200 non-UBC. Refreshments. To register, visit www.audiospeech.ubc.ca/haplab/ierasg.htm. E-mail registration@housing.ubc.ca or ierasg@audiospeech.ubc.ca. Call 604-822-1050.

MONDAY, JULY 23

Vancouver School Of Theology Summer School

Genetic Manipulation: Promise And Peril. Terry Anderson. vst from 8:30-10:30am. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Summer School

Where Psychology And Spirituality Meet. Sheila Fodchuk. vst from 8:30am-3:30pm. \$352; \$317 group; \$176 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Calgary. IRC #2 from 9:30-11:00am. Call 604-822-5591.

Vancouver School of Theology Public Lectures

Some Aspects Of Contemporary Native Spirituality. Wilhelmina Sarai-Clark, Lakota, Washington State U. vst Epiphany Chapel from 7:30-9:30pm. Refreshments. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

THURSDAY, JULY 26

Scholars In Residence Lecture

Excellence And Inclusion: Can Schools Achieve Both? Prof. Judy L. Lupart, Applied Psychology (Special Education), U of Calgary. Scarfe 310 at 12noon. Call 604-822-5214.

Vancouver School of Theology Public Lectures

Praying For Justice And Peace: Participating In The Reign Of God. Rev. Jane E. Vennard, author, spiritual director, Iliff School of Theology. vst Epiphany Chapel from 7:30-9:30pm. Refreshments. Call 604-822-9815.

MONDAY, JULY 30

Physics Summer Camp

Fun With Physics Ages 6-9. Hennings from 9:30am-4:30pm. Continues to Aug. 3. Call 604-822-3853.

Physics Summer Camp

Advanced Physics And Astronomy Ages 13-15. Hennings from 9:30am-4:30pm. Continues to Aug. 3. Call 604-822-3853.

Seminar

Adult And Embryonic Stem Cells As A Source Of Cells For Cell And Tissue Engineering. Peter Zandstra, Chemical Engineering and Applied Chemistry and Medical Biophysics, U of Toronto. Wesbrook 201 from 12:30-1:30pm. Refreshments. Call Dr. Jamie Piret 604-822-5835.

TUESDAY, JULY 31

Scholars In Residence Lecture

Dr. André E. Mazawi, senior lecturer, head, Sociology of Education Graduate Program. Tel-Aviv U. Scarfe 310 from 12noon-1pm. Call 604-822-5214.

Cultural And Media Studies

Food Biotechnology: Quo Vadis? Hennie Van Vuuren, director BC Wine Research Centre; John Bishop, Bishop's. Green College at 4:30pm. Call 604-822-1878.

calendar

JULY 16 THROUGH AUGUST 11

Vancouver School Of Theology Summer School

The Prophets: Wheels of Fire! Helen Carmichael Porter. vst from 1:30-3:30pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815

Vancouver School Of Theology Summer School

Liturgical Theology In Contemporary Context. Donald E. Saliers. vst from 1:30-3:30pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Summer School

Spiritual Theology In The Reformed Tradition: Theological Foundations. John Vissers. Regent College from 2-4pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Public Lectures

Shared History And Responsibility: Healing And Reconciliation. Chief Robert Joseph, executive director, Provincial Residential Schools Project. vst Epiphany Chapel from 7:30-9:30pm. Refreshments. E-mail ci@vst.edu. Call 604-822-9815.

TUESDAY, JULY 17

Law And Society Lecture

(Un)Mapping Red Light Districts: Prostitution, Racial Degeneracy And

tickets are available on a first-come, first-served basis on application to the Board Secretary at least 24 hours before each meeting. To confirm date and time, check under Board Announcements at www.bog.ubc.ca prior to the meeting. Call 604-822-2127.

Vancouver School of Theology Public Lectures

Judge Not Lest You Be Judged: Spiritual Life On The Beach. Hon. Graydon Nicholas, Maliseet, provincial court judge. vst Epiphany Chapel from 7:30-9:30pm. Refreshments. Call 604-822-9815.

FRIDAY, JULY 20

Health Services Seminar

Health Care In Cuba: A Domestic And International Commitment. Dr. Manuel Vera-Gonzalez. IRC #414 from 12noon-1pm. Call 604-822-4969.

SATURDAY, JULY 21

Music

UBC Summer Music Institute 2001. Chan Centre at 1:30pm. Continues to July 27. Call 604-822-3113 or 604-822-9197.

SUNDAY, JULY 22

International Conference

17th Biennial Symposium Of The International Evoked Response

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 BC, V6T 1Z1. Phone: 604-UBC-info (604-822-4636). Fax: 604-822-2684. An electronic form is available at www.publicaffairs.ubc.ca. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space. Deadline for the Aug. 9 issue of *UBC Reports*—which covers the period Aug. 12 to Sept. 8—is noon, Aug. 27.

Vancouver School Of Theology Summer School

Contemplative Retreat Design And Leadership. Rev. Jane E. Vennard. vst from 8:30am-3:30pm. \$352; \$317 group; \$176 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Physics Summer Camp

Advanced Physics And Astronomy Ages 10-12. Hennings from 9:30am-4:30pm. Continues to July 27. Call 604-822-3853.

Biochemistry And Molecular Biology Seminar

Expression And Mechanics Of V-ATPases: A Potential Target For Antiretroviral Agents. Morris F. Manolson. IRC #3 at 10am. Refreshments at 9:45am. Call 604-822-3178.

Vancouver School Of Theology Summer School

What Every Congregation Should Know About Worship. Donald E. Saliers. vst from 1:30-3:30pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Summer School

Exploring Matthew. Jack Dean Kingsbury. vst from 1:30-3:30pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

Vancouver School Of Theology Summer School

Spiritual Theology In The Reformed Tradition: Spiritual Disciplines. John Vissers. Regent College from 2-4pm. \$254; \$229 group; \$127 senior. To register, visit www.vst.edu. E-mail ci@vst.edu. Call 604-822-9815.

TUESDAY, JULY 24

Hallowell Davis Memorial Lecture

The Neurophysiology Of Perception: Single Units vs Evoked Potentials. Prof. Jos J. Eggermont, Physiology and Biophysics and Psychology, U of

THURSDAY, AUG. 2

Scholars In Residence Lecture

Post-Modern Career Counselling: A 2001 Life Space Odyssey. Prof. Spencer G. Niles, Counselor Education, Penn State U. Scarfe 310 from 12noon-1pm. Call 604-822-5214.

TUESDAY, AUG. 7

Physics Summer Camp

Fun With Physics Ages 6-9. Hennings from 9:30am-4:30pm. Continues to Aug. 10. Call 604-822-3853.

Scholars In Residence Lecture

Anthony Adams. Scarfe 310 from 12noon-1pm. Call 604-822-5214.

TUESDAY, AUG. 8

New UBC Faculty Workshop

New Faculty Instructional Skills. David Lam basement seminar room from 8:30am-5pm. Continues to Aug. 10. To register, visit www.cstudies.ubc.ca/facdev/. Call 604-822-6827.

NOTICES

Summer Sports

Community Sport Services Summer Sport Camps. Children's programs soccer, basketball, volleyball, fencing, cycling, hockey, skating, sailing, windsurfing, field hockey. Adult beginner hockey, sailing, ballet, windsurfing. To register, visit www.hockey-school.ubc.ca/summer.html. E-mail fairplay@interchange.ubc.ca. Call 604-822-3688.

Campus Tours

The tour office is located in the UBC Bookstore. Free drop-in tours are offered daily at 10am and 1pm from Monday to Friday. Office hours are 8:30am-4:30pm Monday to Friday. We also offer package tours with variable rates: a children's tour and the Spirit of the Pacific Tour which includes a visit to the MOA, Nitobe Gardens, a walking tour and lunch at Sage Bistro. E-mail campus.tours@ubc.ca. Call 604-822-8687 (UBC-TOUR).

Research Project Volunteers Needed

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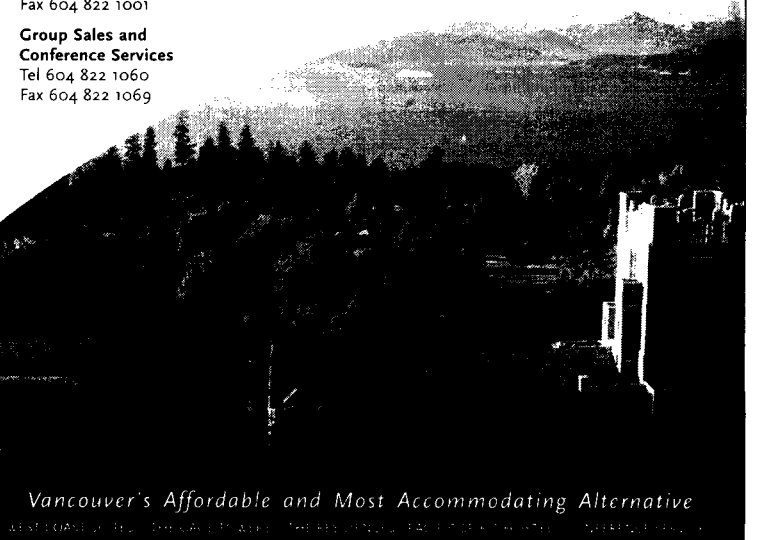
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Winslow Commons a Popular Choice for UBC Faculty and Staff

Just four weeks after opening day at Winslow Commons, over 25 homes have already been spoken for, a success rate that's taking even Polygon staff by surprise.

"We knew the architectural style would strike a chord, and obviously the location is ideal for people who work at the university. But we weren't expecting the homes to sell at such an incredible pace," said sales manager Grace Lim Franklin. "It's been an exciting time for the Polygon team. We're looking forward to a busy summer."

Franklin estimates that more than half the buyers are university staff or faculty members. They've responded enthusiastically to Winslow's unique architecture, creative open floor plans, and tasteful interior details.

"Frank Lloyd Wright's Prairie style seemed an obvious fit for the University Endowment Lands," said Ray Letkeman, the award-winning Vancouver architect who designed Winslow. "Wright was a pioneer in studying the relationship of buildings to the landscape, and in architecture based on natural forms and textures. Because the setting here is so spectacular, we focused on creating a design that relates closely to the natural surroundings."

The building's low pitched roofs, broad wood-framed windows and graceful arched entries reflect Frank Lloyd Wright's Prairie-style principles. The colour palette of honey-toned Norman brick and fawn-coloured siding was also inspired by Wright landmarks.

Natural inspiration continues indoors, with finishing details like stone-textured ceramic tile entry floors, warm maple Shaker cabinetry and sisal-style sand coloured carpets. All homes feature a large and visually striking living room fireplace, framed in slate tile and crowned by a handsome hand-crafted mantel.

Floor plans range from bright open one-bedroom suites to larger two-bedroom homes and every home has features that are unique - a reading area in the master suite, a sunny breakfast nook, sculpture niches for art or an open kitchen with a conversation bar. Main-level suites are particularly appealing to garden lovers, since many have private gated yards. Upper level homes have generous sundecks for dining alfresco, and some have dramatic mountain views.

"It's a beautiful building, and an outstanding addition to the University Endowment Lands," said Al Poettcker, president of UBC Properties. "It has been a pleasure working with such a committed building partner, a company whose management is so focused on aesthetic design and construction quality."

Polygon's commitment to quality led to a direct contribution to UBC, through the creation of an Adjunct Professorship in Building Science. Assisted by UBC and Forintek Canada, Polygon established a professorship in the Faculty of Applied Science, dedicated to technical education and research on wood-frame home construction.

"We saw an excellent opportunity to partner with UBC and help build its research and teaching capacity in an area of importance to the development industry," said Michael Audain, Polygon's Managing Director. "We're proud to contribute to the advancement of construction science in BC."

Winslow is among Polygon's New Generation communities,

recognized in the homebuilding industry for their exceptional durability in the wet West Coast climate. A state-of-the-art Rain Screen system and large protective overhangs are among the many measures taken to prevent moisture damage. New Generation communities are built according to a stringent quality control process, under the supervision of expert building envelope engineers. Winslow is also protected by London Guarantee's 2-5-10 warranty insurance and Polygon's outstanding customer service program.

Winslow Commons is located at the corner of Western Parkway and Toronto Road, a block away from the convenient University Marketplace. Prices start at \$199,900 for a

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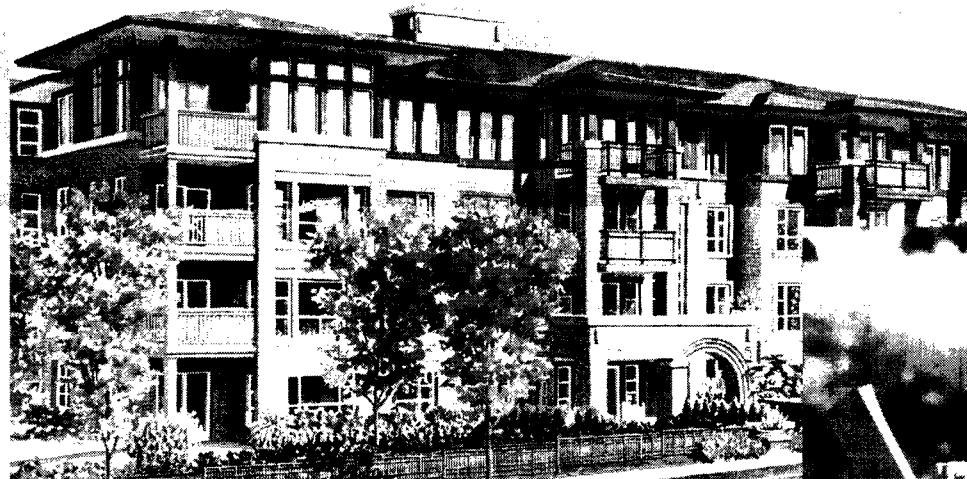
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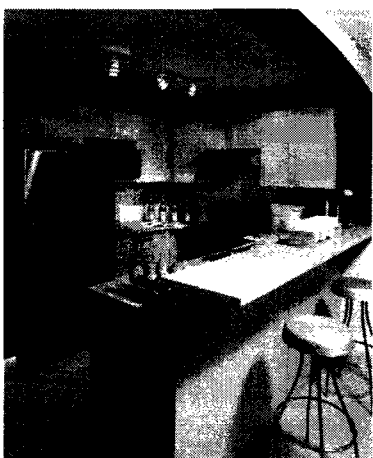
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CONTRACTOR/BUILDER and family seeking house sitting or rental near UBC for the school year. Could do maintenance, repairs, renovations in exchange for rent or part of. Looking for options. Call Roger at 604-820-0401.

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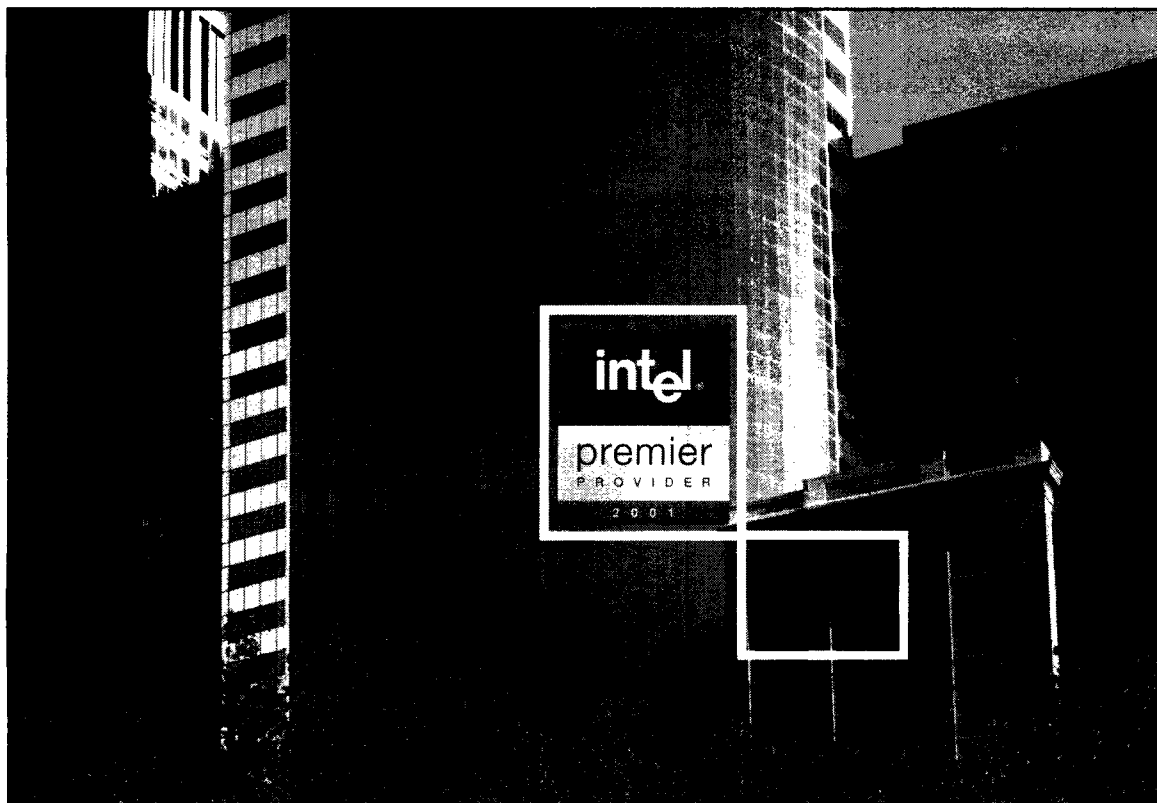
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Deadline: for the Aug. 9 issue: 12 noon, July 30.

Enquiries: 604-UBC-INFO (604-822-4636) - Rate: \$16.50 for 35 words or less.

Additional words: 50 cents each. Rate includes GST.

Submission guidelines: Ads must be submitted in writing 10 days before publication date to: UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver BC, V6T 1Z1. Ads must be accompanied by payment in cash, cheque (made out to UBC Reports) or journal voucher.



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House Hunting

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For assistance with applications, call the Office of the Vice-President, Research, at 604-822-0234.

Study puts the bite on dental care for older adults

Quality of life, self-esteem issues and the ability to eat normally drives ELDERS study on dental health

by Hilary Thomson staff writer

DENTURES SOAKING in a glass on the nightstand is an image often associated with aging.

The reality of dental care for older adults, however, is a complex and challenging area of dentistry, say the members of the Faculty of Dentistry's Elders Link with Dental Education, Research and Service (ELDERS) group.

The group, comprising Prof. Michael MacEntee, Assoc. Prof. Joanne Walton, Clinical Assistant Prof. Michele Williams, Asst. Prof. Chris Wyatt, together with UBC's head of Geriatric Medicine Dr. Lynn Beattie and other dental-care associates, aims to improve oral care for older adults, especially those in a residential care setting.

"Elderly people tell us that the condition of their teeth is an important issue not just for their physical health but for their self-esteem and quality of life," says MacEntee, whose research has focused on the treatment needs and wants of older patients.

The group, formed about five years ago, is participating in a randomized clinical trial to examine the benefits of using mouthwash to decrease oral infections for individuals who are at high risk of dental decay and tooth loss. The research, which also involves the University of Washington, has 400 participants in the Lower Mainland and is expected to be complete in 2004.

The study's findings will help inform care and preventive

treatments for older people, especially those in extended care residences, hospitals and other settings.

Another group initiative sees MacEntee and Wyatt investigating dental care education approaches for nurses and aides in about 15 extended care facilities in the Lower Mainland.

"Many caregivers are uncomfortable with residents' oral care because they are not trained in oral hygiene procedures and may have experienced patient resistance and even biting," says Wyatt.

The study will be complete by the end of the year.

An ELDERS program led by Walton looks at the cost-effectiveness of replacing missing teeth with dentures supported by implants in the jawbones.

Older adults are keeping their teeth into old age and about half of long-term care residents have some teeth remaining, says Walton. The use of acrylic removable partial dentures offers a simple and low-cost solution for the replacement of missing teeth for hospitalized older adults.

Walton and MacEntee are developing realistic outcome measures to determine the benefits of these kinds of interventions.

For more information about the ELDERS group check the Web site at www.dentistry.ubc.ca/elder.

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Honour Roll

Don Brooks, a professor of Pathology and Laboratory Medicine and Chemistry, has been appointed associate vice-president, Research for a five-year term.

Brooks will play leading a role in building UBC's research capacity and competitiveness and will help faculty take full advantage of new funding initiatives. He will also co-ordinate and promote interdisciplinary research.

An alumnus who joined UBC in 1974, Brooks' areas of research are biomaterials, microgravity biotechnology, development of blood plasma substitutes and immunodiagnostic techniques.



Award-winner Mackie Chase

Mackie Chase, director of the Centre for Intercultural Communication in UBC Continuing Studies, has won the 2000-2001 Excellence in Teaching Award from the University Continuing Education Association (UCEA).

The award is given to those who have provided outstanding teaching, course development, mentoring of students and service to continuing education.

A graduate of UBC who joined Continuing Studies in 1984, Chase's achievements include the development of government, corporate and international programs as well as the internationally-recognized UBC Certificate in Intercultural Studies.

The U.S.-based UCEA works with counterparts in many countries to foster professional exchange and better international understanding of continuing higher education.

Asst. Prof. **James A. Olson** of the Dept. of Mechanical Engineering and Pulp and Paper Centre has won the 2000 Weldon Medal from the Pulp and Paper Technical Association of Canada.

The Weldon Medal recognizes the best paper presented by a member at an Association-sponsored conference during the preceding year. Olson's winning paper was selected from some 200 entries.

Olson joined UBC in 1999 after gaining international recognition for co-inventing the highly successful Fibre Quality Analyzer, a joint development of UBC and the Pulp and Paper Research Institute of Canada.

Jane Hutton has been appointed associate vice-president, UBC Continuing Studies.

Hutton earned her undergraduate degree in Psychology at UBC as well as a Master of Library Science. This led to a career in computer technologies which spanned the 1970s to 1990s.

She joined UBC Continuing Studies in 1980 as a program director and has recently served as acting associate vice-president where she provided leadership for continuing education strategic planning, financial management, academic development, linkages with faculties and other matters.

She oversees a budget of \$18 million and full-time staff of more than 140 people.

A proponent of lifelong learning, Hutton has been instrumental in UBC's expansion into the community through the new downtown campus at Robson Square.



Dr. Aubrey Tingle

Dr. **Aubrey Tingle**, president and CEO of the Michael Smith Foundation for Health Research has been awarded the B.C. Health Association Legacy Award.

The annual award is given to an individual or group who has made a significant contribution to the development of health policy, health leadership or health-care governance.

Tingle, a professor of Pediatrics and Pathology, has had a distinguished career as a scientist and pediatrician working with children who have immunological disorders.

He has assumed multiple roles in research and education, and has helped to integrate mandates of the university and hospital to support outstanding research programs linked to improved patient care.

Nominations for the award were solicited by the UBC Committee for Interprofessional Activities in the Health Sciences, in the Office of the Co-ordinator of Health Sciences.



Jane Hutton



THE UNIVERSITY OF BRITISH COLUMBIA

Public Information Meeting for the campus community

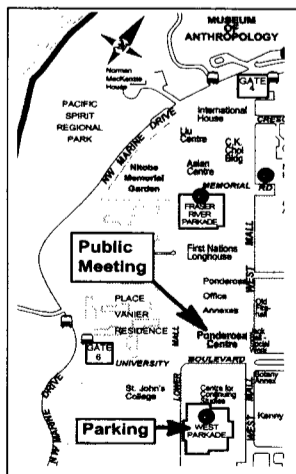
MDS Nordion Cyclotron Expansion Project

Tuesday, July 17, 2001

12:30 - 2 p.m.

Maple Room, Ponderosa Bldg., 2071 West Mall

To present and review the schematic design for the MDS Nordion Cyclotron Expansion project, proposed to be constructed on the TRIUMF site on south campus. The 21,000 square-foot facility consists of a 17,000 square-foot basement processing and support laboratory area and a 4,000 square-foot building with offices and support facilities.



This event is wheelchair accessible. Individuals needing assistive listening devices, captioning, or information on alternate media should contact Gisela Haarbrucker at 822-9560 one week in advance of the meeting.

FREE PARKING will be available in the West Parkade. Please pick up a parking pass after the meeting in order to exit the parkade without charge.

Questions or for further info: Jay Jethwa, Campus Planning & Development, 822-8251 or Jim Carruthers, 822-0469.

Honour, challenge and responsibility

The new director of the First Nations House of Learning wants Aboriginal students to outnumber totem poles at UBC

IN A CEREMONY FEATURING eagle down, drums and dancers, Richard Vedan became director of the First Nations House of Learning (FNHL) by accepting a talking stick from former director Jo-Ann Archibald.

Friendship Centre, the Native Education Centre and the Vancouver Police and Native Liaison Society.

"This is an exciting time for First Nations academics," he says. "We're starting to see more than



New FNHL director Richard Vedan. Clancy Dennehy photo

"It's an honour to be involved with this house," says Vedan who is an associate professor of Social Work and Family Studies. "I feel privileged to be able to build on the legacies of previous directors and to give back the support I have received."

A UBC alumnus and member of the Shuswap Nation who joined the faculty in 1995, Vedan has served on the boards of Vancouver

one person per faculty and that's something entirely new."

A key challenge of the new position will be to increase student enrollment.

"It's been said that there are more totem poles than First Nations students at UBC," says Vedan.

He plans to take more aggressive steps to connect UBC and FNHL with colleges and other Canadian universities in order to at-

tract undergraduate and graduate students. Advances such as the Prior Learning Assessment Program that gives credit for life-learning helps to make university education a possibility not just for young people but also for students in mid-life.

There is a great need for well-educated expert advisors as First Nations regain governance and other responsibilities, says Vedan. Long-standing programs in the faculties of Law, Education, Medicine and Forestry that provide First Nations curriculum and support for students can serve as models in meeting the demand for First Nations graduates.

But the educational challenges reach right back to elementary school, says Vedan. The dropout level for First Nations youth is about Grade 5 — a consequence of what he terms multi-generational marginalization.

First Nations educators are needed to teach and encourage students to stay in school. In addition, solutions must be found for health, economic and social problems that contribute to the dropout rate.

Vedan will continue to teach and pursue his clinical and research interest in the efficacy of traditional healing practices in dealing with violent behaviour in First Nations men and youth. In addition, he is completing a doctorate in curriculum development.

An active man who enjoys cycling and music, he is also a sailor who balances his life with time spent on his 12-metre ketch called *St'iq't Qwy'itc* or Cloud Dancer.

FEATURE

The First Nations House of Learning enters a new period of growth and determination

Stories by Hilary Thomson staff writer

Students learn business skills in a cultural context

FNHL and Commerce combine for Chinook program

THE CHINOOK PROGRAM currently under development by the Faculty of Commerce and Business Administration and the First Nations House of Learning (FNHL) will provide an undergraduate education in management and entrepreneurship to First Nations students.

The program, named after the trade language used by First Nations people of North America's West Coast, will admit students in 2002, and is based on the Commerce undergraduate program with the addition of culturally relevant First Nations electives.

The first two years will be offered off-campus through formal partnership agreements with BC community colleges. A transition program that involves peer support and faculty mentoring will be offered to students before they arrive at UBC for the final two years of the program. Students will graduate with a Bachelor of Commerce and Administration.

"We want to do a better job of connecting with First Nations by making our curriculum more relevant and accessible," says Commerce Assoc. Prof. John Claxton, who designed the program with former FNHL director Jo-Ann Archibald. "We need to build aware-

ness among aboriginal youth that commerce means more than banking. There are lots of opportunities available with this degree."

To stimulate interest among First Nation youth in the Chinook program, Claxton and Archibald created 1st Nations Student Entrepreneurship (1st N-STEP), a student entrepreneurship competition. In the winning business plan at the inaugural competition, First Nations high school students from Merritt presented a plan to make and sell bannock bread at a stand at the Merritt Country Music Festival.

The two junior entrepreneurs described their business plan to a group of First Nations entrepreneurs and high-school students from the Lower Mainland who took part in a 1st N-STEP workshop at FNHL last month.

Teachers, economic development officers and others will be introduced to the 1st N-STEP program in a training session to be held this fall at FNHL. In January, organizers will start planning the Chinook program of study and finalizing agreements with colleges.

For more information on Chinook check the Web site at www.commerce.ubc.ca/chinook/

Musqueam language revival sparks cultural pride

Traditional, elegant language is "the heart and soul" of the Musqueam people

THE CRITICALLY ENDANGERED Musqueam language is becoming revitalized thanks to the collaborative efforts of UBC and members of the Musqueam community.

"This language has lived in people's hearts and minds for millennia," says Patricia Shaw, director of UBC's First Nations Language Program. "But once an oral tradition ceases to be passed on, revitalizing the language is neither swift nor easy."

Shaw, an associate professor of Linguistics, and Susan Blake, a UBC alumna and sessional instructor, teach the language of the Musqueam people—on whose ancestral territory UBC is situated—with Jill Campbell and Larry Grant, both Musqueam band members and adjunct professors in the Faculty of Arts. All classes take place at the Elders Centre on the reserve.

Grant, a retired longshoreman,

took the course to re-learn the language he had stopped using 50 years ago. He now teaches to help spark a reawakening among young people about their culture.

"This is a sophisticated language," he says. "I want young people to stand up and say 'I am aboriginal and this is my language.' It's not savage, it's the product of a highly sophisticated society."

Grant has been impressed that urban aboriginals, even those from other parts of Canada, start to re-identify and re-connect with their culture as they become more confident in the language.

Campbell started learning the language while working as a homemaker for a Musqueam elder. She has been involved in the program for four years.

"This language is at the heart and soul of people's identity," she

says. "It helps to give a deeper understanding of the people who first lived here."

Understanding the language offers a connection to the past, she says, because it becomes possible to appreciate the origins of words and traditional place names used by elders.

Only one fluent speaker remains in the Musqueam community, 91 year-old Adeline Point, and instructors visit her regularly to learn from her extensive knowledge of the language.

Musqueam is one of 26 surviving First Nations languages in BC. Six ancestral BC languages are extinct. At class celebrations, students talk about how important it is to them to finally know and speak their language.

"It's extremely moving to listen to these testimonials," says Shaw who adds that working with the community and elders has been a privilege.

The program has offered a three-year sequence of university-

level classes since 1996 to classes ranging up to 40 people. Students are members of the Musqueam or other First Nations communities as well as non-native students of linguistics, Canadian Studies or other subjects.

Instructors use an interactive format of plays, word games and demonstrations of traditional activities such as fishnet mending, to help students learn the language. In addition, an alphabet using English and phonetic characters is used.

Fourth-year Arts student Miranda Huron has completed the first-year language class and reports that the community at Musqueam is "unbelievably friendly and welcoming." She is also impressed by the complementary styles of teaching.

Community involvement beyond the classroom is vitally important to language revitalization, says Shaw. Kids are already seeking Musqueam translations of soccer terms to use for coded plays



Musqueam language instructors (l-r) Jill Campbell, Larry Grant and Patricia Shaw. Hilary Thomson photo

out on the field. Other community members are collaborating on language research, pre-school and grade-school materials and adult oral fluency programs.

For more information about the courses contact Shaw at (604) 822-6481 or Faye Mitchell, Musqueam band education director at (604) 263-3261.