

INSIDE

3 Mine mend

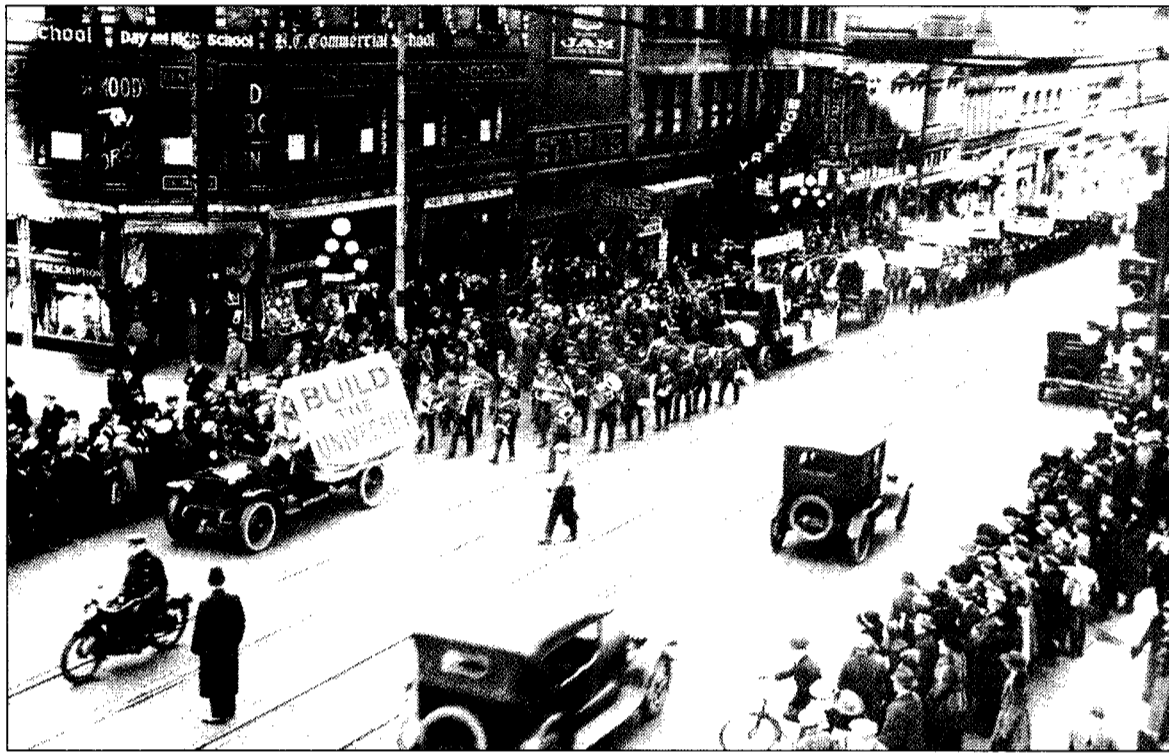
Engineers build solution to
Britannia's toxic run-off

8 Second growth

Forestry sows the seeds for
healthy forests of the future

ubc reports

THE UNIVERSITY OF BRITISH COLUMBIA



MAKING HISTORY The Great Trekkers marched en masse downtown to Point Grey Oct. 28, 1922 to rally support for building UBC. Members of the campus community are invited to join a historic trek that will follow their footsteps in reverse to Robson Square to mark the opening of the university's new downtown campus. *UBC Archives photo*

Group to trek to Robson Square

Great Trekkers inspiration for university's 'Next Trek'

by **Brian Lin** staff writer

STUDENTS, FACULTY, STAFF, alumni and members of the community are invited to be a part of history tomorrow in a 12-kilometre "Next Trek" from UBC to the official opening of the UBC at Robson Square campus downtown.

"The Great Trek has inspired UBC for decades" says Leslie Konantz, associate executive director of the Alumni Association which is organizing the event. "This trek back downtown continues that spirit and shows our commitment to lifelong learning and lifelong connections with UBC."

On Oct. 28, 1922, fed up with the government's procrastination and armed with a 56,000-name peti-

tion, some 1,200 UBC students marched in the "Great Trek" from Fairview Slopes through downtown Vancouver to Point Grey, to urge the government to complete long-awaited construction of the Point Grey campus.

Konantz says response to the Next Trek has been great.

"It's 7:30 on a Friday morning," says Konantz. "It's the last day of classes, an unseasonable time of the year and it's a long way, but people are abuzz all over campus and finding ways to do it."

UBC President Martha Piper, vice-president, Students, Brian Sullivan, Board of Governors member Linda Thorstad and AMS President Erfan Kazemi are among those who have signed up for the trek.

Participants will meet at 7:30 a.m. at Cecil Green Park House and depart at 8 a.m. for Robson Square by way of Spanish Banks, Kits Beach and Vanier Park. UBC at Robson Square officially opens at 11 a.m.

Fuel for the Next Trek (cinnamon buns), a survival kit, map and a pre-Trek stretch session will be provided.

A minibus will shuttle tired trekkers and their personal belongings. Trekkers can join the march at checkpoints along the way. The bus will also return trekkers to campus.

... ..
MORE INFORMATION

Visit www.alumni.ubc.ca/news/next_trek.html, call Leslie Konantz at 604-822-0616 or e-mail lkonantz@alumni.ubc.ca.

UBC bond sells in record time

UBC'S ENTRY INTO the capital markets via a bond issue sold out within 90 minutes of becoming available last week. The bonds raised \$125 million for the university.

The largest single use of the funds will be for the construction or improvement of housing for students, faculty and staff. Other uses will include ancillary business expansion and energy retrofits. Repayment of the borrowed funds will be from rental payments, cost savings and other revenues.

"This form of financing, new for universities in Canada, will help fund our *Trek 2000* strategic vision to attract the highest quality students, faculty and staff from across Canada and around the world," says UBC President Martha Piper.

UBC took its first step into the markets when it received very fa-

vourable Aa3 credit rating from Moody's Investor Services and AA- from Standard and Poor's. Both agencies noted UBC's strong reputation for teaching and research excellence as major draws for students.

UBC is only the second large university in Canada to seek to raise a sum of this size in a broad-based capital markets financing. This summer, the University of Toronto launched a highly successful issue of \$160 million of long-term debentures.

"Given UBC's similar credit ratings to those of U of T, we anticipated equal success," says Byron Braley, UBC treasurer.

UBC's bond offering was led by RBC Capital Markets, with a syndicate that includes CIBC World Markets Inc. and Scotia Capital.

Scholars sweep research awards

Youth suicide, attention disorder among issues

by **Hilary Thomson** staff writer

A PSYCHOLOGIST who investigates how cultural practices affect rates of suicide among aboriginal youth and a cognitive neuroscientist who studies attention disorder are among the researchers to receive awards in the Michael Smith Foundation for Health Research (MSFHR).

Researchers at UBC and its partner teaching hospitals and research institutes received 26 of the 33 awards available in the inaugural career awards competition. The awards are valued at more than \$17 million over five years.

Psychology Prof. Michael Chandler will study suicide and self-injury among First Nations youth.

"Young people kill themselves in heartbreaking numbers with the rates in certain aboriginal communities sometimes being hundreds of times larger than the rest of the population — arguably the highest in the world," says Chandler, a faculty member since 1978.

He studies how cultural differences during adolescence help or harm young people's ability to protect themselves from risk of self-destructive behaviour. In particular, he looks at how rates of suicide vary between bands.

Chandler found that bands who try to preserve and rehabilitate their culture by measures such as securing title to traditional lands or gaining community control over education experience fewer suicides than other bands. In a five-year study of all aboriginal suicides in B.C. he found no reported youth

He's got mail (on the back of his bike)

Through rain or snow, mail carrier puts wheels in motion

by **Michelle Cook** staff writer

AT SIX FEET NINE INCHES tall, James Boucher was bound to attract the nickname Jolly Green Giant at some point in his life. But the UBC mail carrier's colourful moniker isn't just a reference to his lofty stature. It's a testament to his commitment to making the campus a greener place, including delivering all his mail by bike.

Boucher, who works in the Faculty of Education's mailroom, has been crisscrossing UBC's 400-hectare campus to deliver mail since 1990. For most of that time, he used a van for his rounds. Then, last May, he had an epiphany.

"I was delivering a light load of envelopes in the van one day last spring," Boucher recalls. "And I thought, why not get out the bungee cords and just strap the mail to

the back of my bike."

Trading his gas-guzzling vehicle for two wheels didn't go as smoothly as Boucher would have liked. He got a bit cocky in his attempts to balance larger and larger loads on his back rack. After taking a few spills that sent envelopes and packages flying, he approached The Bike Kitchen with a design idea for his bike.

The mechanics at UBC's on-campus bike shop used plywood,



Mail carrier James Boucher

see *Scholars*, page 2

LETTERS

Keep bus loop location, says reader

Editor:

The present location of the bus loop is perfectly placed and allows transit users to reach almost any campus destination within five minutes.

This is a bonus for transit users, including hundreds of us who have cars but choose not to use them to come to UBC.

Leave the bus loop where it is and enforce the signage restricting vehicle access on campus.

Madelene Klassen
Faculty of Education

Scholars

Continued from page 1

suicides in bands where a full range of protective factors were in place. Communities without evidence of such efforts experienced suicide rates five to 100 times the national average.

Chandler, who was also named a Distinguished Investigator of the Canadian Institutes of Health Research this year, aims to share his research results with First Nations communities to help them reconstruct cultural practices that may serve to protect their youth.

Alan Kingstone, an associate professor of Psychology, will study the mechanisms of attention in

healthy children and adults as well as those with attention disorders.

"This award is truly a wonderful initiative that increases capacity in health research," says Kingstone, a faculty member since 1999. "With the award, our department intends to create a new faculty position in cognitive neuroscience and also my lab can accelerate and expand its own research."

A specialist in the fledgling discipline of cognitive neuroscience, he describes attention disorder as a failure to either select relevant information or disregard irrelevant information. Attention problems are a major source of disability, Kingstone says, and are associated with a wide range of disorders such as autism and schizophrenia.

Kingstone's research team uses behavioural and neuropsychological assessments and advanced imaging technologies to reveal brain processes involved in different attention tasks.

His research also explores the role attention plays in integrating information across the senses. Vision, touch and sound compete for our attention but can also co-ordinate to assist perception. New knowledge about how the brain works in these activities will help in understanding and possibly developing better treatment and rehabilitation options.

The Michael Smith Foundation for Health Research, named for the late UBC professor of Biotechnology and nobel laureate in Chemistry, was created this spring to provide leadership and support to build B.C.'s health research capacity.

Awards support health researchers currently working or being recruited to work in B.C.

Successful applicants receive five years of salary support at one of three levels: scholar awards of up to \$80,000 annually; senior scholar awards of up to \$100,000 annually and distinguished scholar awards that offer up to \$120,000 annually and are renewable every five years.

Research categories of health services, population health, biomedical and clinical include investigations of issues ranging from heart disease and prostate cancer to early labour support at home.

Other UBC award recipients include: Arts/Medicine: Christine Chambers, Psychology/Pediatrics. Medicine: Riyadh Abu-Laban, Emergency Medicine; Shoukat Dedhar, Cancer Genetics and Development Biology; Vincent Durnio, Jack Bell Research Centre; Alaa El-Din El-Husseini, Psychiatry; John Hill, Healthy Heart Program; Robert Hogg, Health Care and Epidemiology; Pamela Hoodless, Terry Fox Laboratory; Sheila Innis, Pediatrics; Patricia Janssen, Family Practice; Aly Karsan, Medical Biophysics; Peter Leung, Obstetrics and Gynecology; Adrian Levy, Health Care and Epidemiology; Victor Ling, Cancer Genetics and Development Biology; Marco Marra, Genome Sequence Centre; Colleen Nelson, Surgery/The Prostate Centre; Jan Ochnio, Pediatrics; Peter Pare, McDonald Research Laboratories; Dessa Sadovnick, Medical Genetics; Lakshmi Yatham, Psychiatry. Office of the Coordinator of Health Sciences: Robert Reid, Centre for Health Services and Policy Research. Science: Patrick Keeling, Botany; David Perrin, Chemistry; Mall Ramer, Collaboration on Repair Discoveries.

ubc reports

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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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AGREEMENT NUMBER 1689851

Corrections

Lee Gass is a professor in the Zoology Dept., not an associate professor, as was stated in the Nov. 15 UBC Reports.

Ethics Prof. Peter Danielson was incorrectly identified as a Philosophy professor in the Nov. 15 UBC Re-

ports. Danielson left the Philosophy Dept. in June to join the Centre for Applied Ethics.

The subheading in the story about graduate Lucy Marzban that appeared in the Nov. 15 issue of UBC Reports was incorrect. Ms. Marzban's departure from Iran was to complete her studies and was unrelated to the war.

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HOLLY DAYS Beryl Deuel (left) and Moya Drummond provide a sneak preview of the fresh festive wreaths that will be on sale until Dec. 7 at UBC's Botanical Garden. The pair are two of 160 Friends of the Garden volunteers who will be creating 300 holiday wreaths, baskets and swags for the popular annual sale. The wreaths are available while quantities last at the Shop in the Garden, 6804 Southwest Marine Dr. (Call 604-822-4529). Prices range from \$25-\$75 with all proceeds going to support the garden. *Michelle Cook photo*

Engineers aim to plug toxic seepage from Britannia mine

Solution will double as field lab for students, researchers

by **Michelle Cook** staff writer

UBC MINING ENGINEERS have launched an innovative plugging project to stop the toxic run-off from Canada's most polluted mine that could revolutionize mine reclamation and closure techniques worldwide.

The Millennium Plug project involves the construction of two plugs in a tunnel of the former Britannia mine off Highway 99 south of Squamish.

Copper, zinc and sulphuric acid have been seeping from the site since it was abandoned in 1976. The

contamination has created a marine dead zone in Howe Sound. Environment Canada classified the mine as the worst acid-rock drainage site in the country in 1993.

One of the plugs is a 25-metre-long earth dam made of layers of sand, clay and gravel. Dubbed the Millennium Plug because its creator, UBC PhD candidate Brennan Lang, expects it to function for 1,000 years, the barrier is designed to withstand high pressures and seismic activity.

Unlike the conventional concrete plugs commonly used in mine closure, the Millennium Plug

won't corrode in the tunnel's acidic environment. It will also cost less to build than a concrete plug.

"Virtually every hard rock mine and coal mine in the world suffers from acid rock drainage problems to some degree," says Prof. John Meech, director of UBC's Centre for Environmental Research in Minerals, Metals and Materials (CERM3). "With the work we're doing at Britannia, by next year we'll know how to design these plugs for virtually any place in the world."

Once installed, the Millennium Plug, along with a second concrete plug, will become a field research station for UBC faculty and students.

Meech says the project is "a great example of how research money can be used in an innovative and synergistic way."

The Millennium Plug and research facility will cost \$100,000 to build, with funding coming from a \$3.3 million grant received from the Canada Foundation for Innovation, the B.C. Knowledge Development Fund and UBC's Dr. Stewart Blusson Research Fund to build infrastructure for CERM3.

By agreement with the property's owner, Alex Tsakumis of Copper Beach Estates Limited, CERM3 will have access to the site for five years, leaving the Millennium Plug in place upon completion of the research. Tsakumis, a UBC graduate, has contributed more than \$73,000 to help fund the research.

The plug will divert copper pollution flowing into Howe Sound back into the mine workings.

Meech says toxic effects on aquatic life will be virtually eliminated. The B.C. government has plans for a treatment plant to be completed by mid-2003 at which point all pollution emissions will finally be under control, he adds.

sometimes have large deliveries to make. But I'm not a fan of car exhaust. It's a lot more fun to bike."

Boucher's efforts to go green with his mail delivery dovetail nicely with his work as a sustainability co-ordinator. This includes encouraging those working in the Faculty of Education to adopt Go Green initiatives including energy and paper reduction, recycling, and alternative transportation methods.

The intrepid mail carrier has got some other sustainability ideas for his colleagues, but first he's got one more hurdle to overcome with his mail bike.

This will be Boucher's first winter making deliveries on two wheels, which means he'll be battling every mail carrier's worst nemesis — foul weather. He has invested in some heavy-duty rain gear that he describes as "almost impregnable in any kind of weather."

"If I'm still out on the road in a month," Boucher says, "I'll be proud."

Mail

Continued from page 1

bolts, and rubber matting to transform Boucher's old pannier rack into a sturdy platform with a perfect fit for his Canada Post mail bin. But Boucher's happy days of cycling across campus with the mail were cut short when his bike frame cracked under the weight of his postal bin.

Undaunted, Boucher explained his predicament to Bike Cartage, a non-profit educational society that supplies environmentally friendly bike carts in partnership with UBC's TREK Program Centre.

They loaned him a bright purple plastic and aluminum cart to hook onto the back of his bike. The adjustments put Boucher back in business pedalling almost 16 kilograms of mail around campus daily.

"I won't say I'm using the bike 100 per cent," Boucher admits. "I

Science students click on learning

System fosters interactive learning in the lecture hall

IT'S AS EASY as channel surfing and it's changing the way students are learning in the Faculty of Science.

Using infrared communication hardware called Personal Response System (PRS) students in first-year Science classes are participating in a dynamic and interactive learning method used in only a handful of universities in Canada.

"This system is about peer education," says Javed Iqbal, an adjunct professor in the Physics Dept. who uses PRS in his first-year Physics class. "It's very encouraging — they can definitely teach each other."

The system relies on a handheld remote with numbered buttons, or clicker, that is assigned to each student for the term. There are 300 clickers available.

Students are asked multiple-choice conceptual questions — sometimes three to four per lecture — designed to stimulate rational thinking and test understanding of scientific principles.

Students answer each question twice — once after considering the problem independently, and once after debate with their neighbours.

Classroom decibels soar for about two minutes as hundreds of students argue the correctness of their answers.

Using the remote, students click the numbers that correspond to their answer and confidence level. Their answers and identification number are logged directly into a central computer.

Hundreds of numbered squares each corresponding to a clicker light up on the big screen at the front of Hebb Theatre as answers are received.

When they log their answers for a second time, the squares light up again and a bar chart shows the 'votes' for each answer, how confident responses were, and which



First-year students with clickers

answer is correct.

Marks are automatically logged in the system but understanding the principles is the real goal, says Andre Marziali, assistant professor in the Physics Dept. who led the initiative to adopt the PRS technology.

"Teaching physics requires teaching a skill, not just transferring knowledge," he says. "You don't teach someone basketball by lecturing — you hand them a ball and put them on the court. PRS allows large classes to practise physics rather than just listen."

Students who may feel intimidated by challenging a professor's idea are usually comfortable in debating the same idea with a fellow student, adds Marziali.

He and Iqbal agree that the system teaches analytical and communication skills and makes their lectures easier, more flexible and fun.

"We're teaching in real time," says Iqbal. "If I see students are not grasping a concept I can modify my lecture on the spot."

Students are enthusiastic, according to department head Tom Tiedje. In course evaluations, students have described PRS transmitters as "awesome" and promoting "actually thinking in class, not copying text."

Currently only Hebb Theatre is outfitted with the system that is also used in Prof. Geoff Herring's first-year Chemistry class. There is discussion of installing PRS in other lecture theatres, says Iqbal.

Other universities using PRS include Harvard, Stanford and the Hong Kong University of Science and Technology.

Finning donates land for high-tech education hub

A LARGE LAND GIFT from Finning International Inc. will allow UBC and three sister institutions to develop educational programs in Vancouver's newly emerging high-tech centre.

Finning has donated an 80 per cent share of 7.5-hectares on Great Northern Way, which is being divided equally among UBC, Simon Fraser University, Emily Carr Institute of Art and Design and the British Columbia Institute of Technology.

The property encompasses approximately six city blocks between Main Street and Clark Drive and is valued at approximately \$33.8 million.

"We look forward to working with our other post-secondary partners to make this site a hub of high-tech learning and research," says UBC President Martha Piper.

"This exciting public-private partnership gives us an unprecedented opportunity to create a multidisciplinary, innovative centre that will support B.C.'s knowledge economy."

No detailed plans for the property have been developed. UBC and partner institutions are exploring options for training and education programs for the property as well as development strategies to fund them.

MONDAY, DEC. 3

Pharmaceutical Sciences Seminar
Regulation Of Glutamate Receptors By An AKAP Signaling Complex. Dr. Marcie Colledge, Oregon Health and Science University, Cunningham 160 from noon-1pm. Call 604-822-2052.

Forestry 50th Anniversary

Open House. ForSciences Atrium from 12:30-4:30pm. Call 604-822-8787.

Chalmers Institute Theological Forum

The One That Got Away! Justice In Canadian Fisheries Policies. Melanie Power, Fisheries Centre. VST Boardroom from 4-5pm. Refreshments. Call 604-822-9815.

FRIDAY, DEC. 7

Grand Rounds

Cost Effectiveness In Pharmacotherapy For Rheumatoid Arthritis. Carlo Mara, PhD candidate, Health Care and Epidemiology, Mather 253 from 9-10am. Call 604-822-2772.

SATURDAY, DEC. 8

Opera

The Merry Widow. UBC Opera Ensemble, Vancouver Philharmonic Orchestra; Wallace Leung, conductor. Chan Centre from 8-10:30pm. \$20; 14 (students/seniors). Tickets available at Ticketmaster 604-280-3311 and Chan Centre Box Office or call 604-822-5574.

NOTICES

Habitat For Humanity UBC

Is looking for volunteers. Come help out on the construction site and build homes for low-income families - no skills required. For more information and to register for an orientation, e-mail habitat@vancouver.net or call 604-681-5618.

STAR Breast Cancer Prevention Study

Volunteers are needed to participate in a breast cancer prevention trial being conducted at UBC Hospital. Two drugs, Raloxifene (Evista) and Tamoxifen, are being studied to see which works better at preventing breast cancer. Women must be post-

menopausal and have an increased risk for developing breast cancer. Call Lynn or Janet at 604-822-7997.

Participants Needed

The Adult Development Lab at UBC is looking for adults interested in volunteering for (a) a focus group study looking at what it means to be your age today and/or (b) studies on visual memory and visual abilities. Call Pam at 604-822-5250 for more information.

Research Project Volunteers Needed

Stress And Coping In Female Clerical Workers. Educational and Counseling Psychology, and Special Education is seeking female clerical workers to participate in study on stress and coping. If experiencing workplace distress/frustration, we would like to learn more about your experiences. Call 604-822-9199.

Legal Clinic Open

UBC Law Students' Legal Advice Program (LSLAP) runs clinics all over the Lower Mainland. LSLAP has been working in the community for over thirty years and is currently British Columbia's second largest legal aid organization. For more information about the program, visit www.lslap.bc.ca or call 604-822-5723.

Lactose Intolerant?

Researchers at UBC are doing a questionnaire-based study to learn more about lactose intolerance. Participation will take about 20-30 min. of your time. If you are 19 years of age or

older, experience lactose intolerance and live in the Greater Vancouver area, please call 604-682-3269 ext. 6377 to receive a copy of this questionnaire or more information.

Volunteer Leaders Wanted

"Living A Healthy Life with Chronic Conditions" a series of six free workshops that help people develop the skills to get the most out of life is looking for volunteer leaders. This program is an exciting new development in teaching people with chronic conditions to help themselves. If you are interested in being part of this program, you can sign up for a free Leader Training Workshop August 9, 10, 16 and 17 by contacting Mark Davies 604-822-0634. To view our Web site www.ihpr.ubc.ca/healthyliving.

Research Study

Researchers at the Psychology Dept. are conducting a study examining sexual functioning in women. The aim of this study is to help women who experience sexual difficulties. Your confidentiality will be assured. All participants will receive a detailed sexual psychophysiological profile for their participation. If you are a healthy, heterosexual, premenopausal woman who is currently in a relationship, please call 604-822-2952.

Chronic Fatigue Syndrome (CFS) Research

Infectious Diseases researchers from VGH seek volunteers diagnosed medically with CFS to participate in a study about managing symptoms. Call Kenna Sleigh 604-875-5555 ext. 62366.

calendar

DECEMBER 2 THROUGH DECEMBER 15

Nature of Creativity Lecture Series

Biological Bases of Creativity: Neurobiology of Creative Behaviour. Colin Martindale, U of Maine, Green College at 5pm. Call 604-822-1878.

TUESDAY, DEC. 4

Modern Chemistry Lecture

The Currents of Life: Electron Tunnelling Through Biological Molecules. Prof. Harry Gray, Caltech, Chemistry B-250 from 12:45-1:45pm. Refreshments at 12:30pm. Call 604-822-3341.

Christmas Luncheon

Faculty Women's Club Meeting. Cecil Green Park House from 12noon-2pm. \$17. Call Barbara Tait at 604-224-0938.

WEDNESDAY, DEC. 5

Orthopaedic Grand Rounds

Energy Expenditure And Mobility. Dr. Bonita J. Sawatzky, VGH, Eye Care Centre Aud. from 7-8am. Call 604-875-4192.

Pharmaceutical Sciences Seminar

Neuropharmacology Of Oscillations And Synaptic Plasticity In The Visual Cortex. Dr. Frank Tennigkeit, Max-Planck-Institute for Brain Research, Cunningham 160 from 12 noon-1pm. Call 604-822-2052.

OBST 506 Seminar

The Study Of Early Embryo Development And Implantation By Co-Culture System. Dr. Jie Yan, PhD candidate, BC Women's Hosp. 2N35 from 2-3pm. Call 604-875-3108.

CAE Colloquium 2001

Public Health And Population Health: What Can The Philosophy Of Biology And Bioethics Contribute? Jason Scott Robert, Dalhousie U. Angus 223 from 2-4pm. Call 604-822-8625.

School of Nursing Rounds

Highs And Lows: Researching Adolescents With Diabetes. Kathy O'Flynn-Magee, UBC Hosp., Koerner Pavilion T-206 from 3-4pm. Call 604-822-7453.

Individual Interdisciplinary Studies Graduate Program

The Artist-Scientist Career Conundrum. Maria Klawe, Science dean, Green College at 5pm. Call 604-822-1878.

SUNDAY, DEC. 9

Opera

The Merry Widow. UBC Opera Ensemble, Vancouver Philharmonic Orchestra; Wallace Leung, conductor. Chan Centre from 3-5:30pm. \$20; 14 (students/seniors). Tickets available at Ticketmaster 604-280-3311 and Chan Centre Box Office or call 604-822-5574.

MONDAY, DEC. 10

Pharmaceutical Sciences Seminar

The Influence Of Novel Peripheral Receptor Mechanisms On Sensory Input From The Craniofacial Region. Dr. Brian Cairns, Harvard Medical School, Cunningham 160 from 12 noon-1pm. Call 604-822-2052.

TUESDAY, DEC. 11

Lecture

Modern Chemistry Real-Time Measurements Of Mitochondrial pH and Redox Potential With Designed Ratiometric GFP Variants. James Remington, U of Oregon, Chemistry B-250 from 12:45-1:45pm. Refreshments at 12:30pm. Call 604-822-3341.

WEDNESDAY, DEC. 12

Orthopaedic Grand Rounds

TBA. VGH, Eye Care Centre Aud. from 7-8am. Call 604-875-4192.

OBST 506 Lecture

Characterization Of Two Novel ADAMTS Subtypes Expressed In Human Placental And Decidual Tissues. Alexander Beristain, MSc candidate, BC Women's Hospital 2N35 from 2-3pm. Call 604-875-3108.

Senate Meeting

Regular Meeting Of The Senate, UBC's Academic Parliament. Curtis 102 from 7-9:30pm. Call 604-822-2951.

FRIDAY, DEC. 14

Grand Rounds

Mapping Child Development In Vancouver. Clyde Hertzman, Health Care and Epidemiology, Mather 253 from 9-10am. Call 604-822-2772.

Next calendar deadline:

Dec. 4

menopausal and have an increased risk for developing breast cancer. Call Lynn or Janet at 604-822-7997.

Participants Needed

The Adult Development Lab at UBC is looking for adults interested in volunteering for (a) a focus group study looking at what it means to be your age today and/or (b) studies on visual memory and visual abilities. Call Pam at 604-822-5250 for more information.

UBC Research

Boys between seven and nine (with or without ADHD) and their mothers are needed for a study. Mothers receive \$20 and children get a UBC t-shirt. If interested, please call 604-822-9037.

UBC Zen Society

Zazen (sitting meditation) each Tuesday at the Asian Centre Tea Gallery from 1-1:50pm while classes are in session. Call 604-822-2573.

Morris And Helen Belkin Art Gallery

Conceptions: The Conceptual Document 1968-1972. From Sierra Maestra To La Habana: The Drawings Of Chago. Continues to Dec. 2. Tuesday to Friday from 10am-5pm, Saturday 12noon-5pm, Sunday 12noon-5pm. (Closed Mondays; holidays). Call 604-822-2759.

Sexuality Study

Researchers at the Dept. of Psychology and Division of Sexual Medicine are conducting a study examining sexual functioning in women receiving estrogen replacement therapy. Both sexually healthy women, as well as women who have recently experienced a change in their orgasmic functioning are welcome. For further information, please contact 604-822-2952. Your confidentiality will be assured. All participants will receive an honorarium for their participation.

Participants Wanted

Would you like to share your story about your experience with health care professionals? We are conducting a study of patient perceptions about helpful and unhelpful communications in fibromyalgia. In order to learn more about what makes communication effective, we are asking individuals who have had fibromyalgia for at least five years to participate in our study. Participation will involve one or two interviews in a location convenient to you, and possibly a fo-

Faculty of Arts

UBC KILLAM TEACHING PRIZE

Once again the University is recognizing excellence in teaching through the awarding of prizes to faculty members. Five (5) prize winners will be selected in the Faculty of Arts for 2002.

Eligibility: Eligibility is open to faculty who have three or more years of teaching at UBC. The three years include 2001 - 2002.

Criteria: The awards will recognize distinguished teaching at all levels; introductory, advanced, graduate courses, graduate supervision, and any combination of levels.

Nomination Process: Members of faculty, students, or alumni may suggest candidates to the Head of the Department, the Director of the School, or Chair of the Program in which the nominee teaches. These suggestions should be in writing and signed by one or more students, alumni or faculty, and they should include a very brief statement of the basis for the nomination. You may write a letter of nomination or pick up a form from the Office of the Dean, Faculty of Arts in Buchanan B-130.

Deadline: 4 p.m. on Jan. 28, 2002. Submit nominations to the Department, School or Program Office in which the nominee teaches.

Winners will be announced in the spring, and they will be identified as well during Spring Congregation in May.

For further information about these awards contact either your department, school or program office, or Dr. J. Evan Kreider, Associate Dean of Arts at 604-822-6703.

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 Dec. 13 issue of *UBC Reports*—which covers the period Dec. 16 to Jan. 12—is noon, Dec. 4.



Soloists and combined choirs composed of nearly 200 UBC Music students will be joined by the UBC Symphony Orchestra in the school's performance of Elgar's choral masterpiece, *The Dream of Gerontius*. The end-of-term extravaganza, conducted by Bruce Pullan, takes place tomorrow evening at 8 p.m. Tickets (\$20, adults; \$14, students and seniors) are available from TicketMaster at 604-280-3311 or in person at the Chan Centre Ticket Office. School of Music photo

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UBC Chancellor

Nominations are being accepted for the position of Chancellor of The University of British Columbia. UBC's Convocation elects the Chancellor. The Convocation primarily consists of UBC graduates and full-time faculty members. Persons applying for the position of Chancellor may not be currently employed by a university. **Nominations are due at Enrolment Services by 4 p.m. on Dec. 20.**

Nomination forms for these positions are available at Enrolment Services, Brock Hall, 2016 - 1874 East Mall, UBC.

For further information, or to download nomination forms, please visit WWW.STUDENTS.UBC.CA/EVENTS/ELECTIONS.

Notice of election

An election will be held to elect at-large representatives of full-time faculty members to the UBC Senate and Board of Governors.

Candidate information is available on the UBC Elections Web site www.students.ubc.ca/events/elections.

Polls will be open for voting to Dec. 17.

Voters may vote on the Internet by visiting the UBC Elections Web site or may request paper ballots by sending an e-mail to elections.information@ubc.ca



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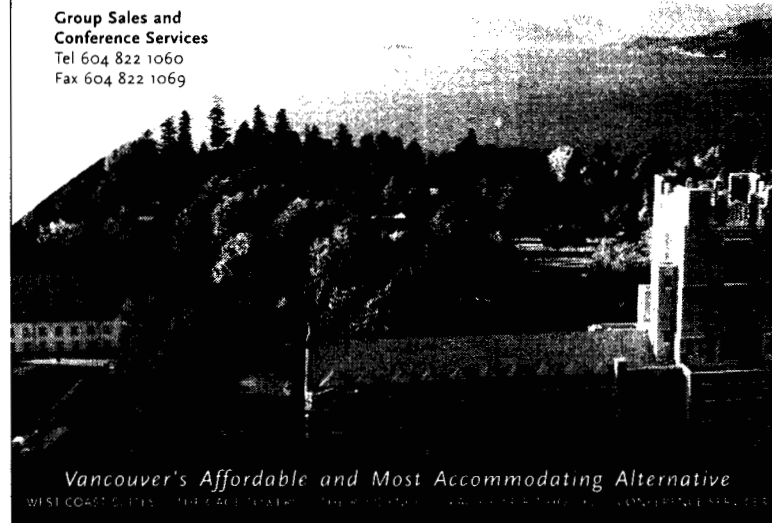
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DIGEST

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Entries are invited to the annual PRISM international Short Fiction Contest.

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The deadline is Jan. 31 for manuscript submissions, which must be accompanied by an entry fee of \$22 per manuscript, plus \$5 for each additional manuscript.

For complete contest guidelines, visit prism.arts.ubc.ca.

The oldest literary magazine in Western Canada, PRISM international publishes contemporary writing and translation from Canada and around the world.

E-award for innovation

Continuing Studies' eBusiness program has been awarded the 2001 Innovative Programming Award by the University Continuing Education Association (UCEA).

Launched last fall by Continuing Studies and the Faculty of Commerce and Business Administration's Centre for Management Development, the 10-month part-time eBusiness certificate program is designed to teach people to understand the business models for

the networked economy and Internet technologies that support them.

Established in 1915, UCEA is a professional association of public and private Canadian and American universities. The UCEA award is given to programs demonstrating an original concept and approach as evaluated by reviewers throughout North America.

Research Synergy Award

The UBC Geophysical Inversion Facility, directed by Prof. Douglas Oldenburg of the Earth and Ocean Science Dept., has been awarded the Leo Derikx Synergy Award from the Natural Sciences and Engineering Research Council (NSERC).

The award recognizes the facility for its outstanding university-industry research and development partnership with INCO Exploration and Technical Services and a consortium of 11 mining companies from around the world.

The facility's research focuses on developing software capable of producing 3-D images of what lies beneath the earth's surface.

The technique, which is identical to medical imaging, will lead the way to more accurately determining the location of mineral deposits.

The award, co-sponsored by the Conference Board of Canada, provides a \$25,000 research grant for the university research partner.

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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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Researchers poised to lead revolutionary chip wave

New lab to be a training ground for chip designers

by Michelle Cook staff writer

THERE'S A WIDENING GAP between computer chip technology and productivity that means we are waiting longer for new Palm Pilots, cell phones, and electronic products to hit the market. And paying higher prices for them once they get there.

But there is a way high-tech manufacturers can increase productivity while reducing the design cycle. It's a revolutionary technology called System on Chip (soc) that allows engineers to shrink all of the computer chips previously found on a circuit board onto a single, thumbnail-sized chip.

With the opening of the System on Chip research lab on campus today, UBC researchers will be at the forefront of this next big wave in integrated circuit design.

The centre, the first of its kind at a North American university devoted to the design, testing and verification of soc technology, will be headed up by Electrical and Computer Engineering Prof. Resve Saleh and Prof. Andre Ivanov.

"With soc technology you won't have to design from scratch any-

more which will give us the ability to crank out chips faster," says Saleh. "The technology is a little bit like pre-fabricated home building where you take pre-assembled parts to a site to be put together."

By the end of this decade, Saleh expects a functional chip containing more than one billion transistors will be designed in the high-tech industry — he hopes using technological advances developed at UBC.

The goal, Saleh says, is to be the leading soc research group and to establish UBC as a world-class research centre for the design, verification and testing of high-speed mixed-signal system on chip projects within five years.

The lab's research will include designing reusable chips with their own built-in testing capability, and integrating digital and analog components on a single chip.

In addition to Saleh and Ivanov, three professors and 30 students and staff will use the facility. It will also be a training ground for the next generation of chip designers who will need to understand the whole process from the system level to the silicon level.

With the revolution in soc research, Saleh explains, this is the kind of engineer the industry will need in the coming years.

The lab's work is being conducted in collaboration with the Canadian Microelectronics Corp. (CMC), a not-for-profit organization that provides industrial microelectronic technologies to Canadian educational institutions.

CMC has invested \$40 million to provide soc research infrastructure at universities. It will manufacture chips based on design data from UBC and return them for testing.

The soc Lab has received \$3.2 million in funding from industry and government sources including the Canada Foundation for Innovation, the Natural Sciences and Engineering Research Council of Canada and local high-tech company PMC-Sierra.

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Edibles	closed	Dec 3
Espresso-On-the-Go	Dec 3 7:00 am - 3:00 pm	Dec 22
BC/ Subway	Dec 17 7:00 am - 2:00 pm	Dec 17
PSP	7:30 am - 2:00 pm	Dec 13
Bake Shop	7:30 am - 2:00 pm	Dec 18
Pizza Pizza	closed	Dec 3
Roya	10:30 am - 2:30 pm	Dec 13
Manchu Wok	10:30 am - 2:30 pm	Dec 13
Subway	7:30 am - 4:00 pm	Dec 18
Pages	10:00 am - 3:00 pm	Dec 14
Pond Cafe	7:30 am - 4:30 pm	Dec 14
Sage - Lunch Dinner	11:30 am - 2:30 pm / 3:30 pm - 9:00 pm	Dec 22
Steamies	9:30 am - 3:00 pm	Dec 17
Trek Express	7:30 am - 3:00 pm	Dec 17
99 Chairs	8:00 am - 4:00 pm	Dec 25
Yum Yum's	closed	Dec 3
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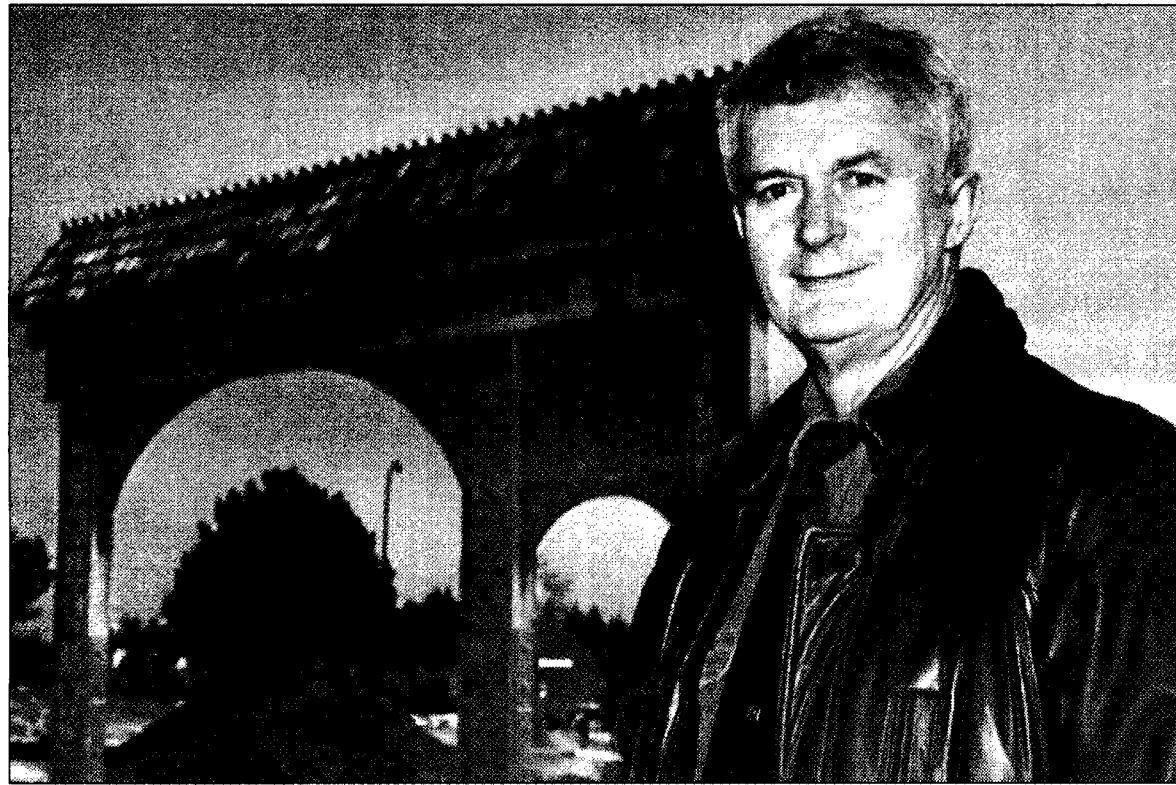
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A traditional Hungarian gate carved from yellow cypress by Forestry alumnus Les Jozsa will serve as a lasting mark of the Faculty of Forestry's 50th anniversary. The gate, which stands in front of the Forest Sciences Centre, is a gift to the people of Canada, UBC and the Faculty of Forestry from 140 Hungarian Forestry students from Sopron University. Jozsa, now a scientist at Forintek, was among the Sopron students who escaped into exile after the 1956 revolution to complete their studies at UBC. The gate will be officially dedicated during the Faculty's 50th anniversary Jubilee Open House on Dec. 3 from 12:30-1:30 p.m. *Martin Dee photo*

FACULTY OF FORESTRY

As it turns 50, the Faculty of Forestry is growing more than trees. Don Wells stories

Stakeholders picture a forest, thanks to lab

Visualization aids in planning sustainability

THE OPPORTUNITY TO GAZE into a forest's future is likely to be a popular attraction for those planning to take in the Faculty of Forestry's 50th anniversary celebrations on Dec. 3.

They'll be able to look decades and even centuries ahead, thanks to a research facility called the Landscape Immersion Lab (LIL).

Using three projectors and an Infinite Reality SGI supercomputer acquired through a grant from the Canada Foundation for Innovation, the LIL immerses viewers into a panoramic view of a forested landscape by projecting images onto large wrap-around screens.

By projecting both panoramic photographs and visualizations of existing, past and future landscapes, the LIL provides researchers and community groups with a tool to compare the outcomes of forest development or land use plans.

The "virtual reality" techniques can give viewers the experience of being in the actual place with freedom to look around or even move through the landscape. At the same time, viewers can also access

important information on the screens, such as ecological condition or land ownership.

According to the interdisciplinary researchers at UBC's Collaborative for Advanced Landscape Planning (CALP) which developed the facility, the ability to explain and analyse a variety of social, economic and environmental outcomes makes the lab a uniquely valuable tool in sustainable forestry management and in public forestry planning consultations.

"It's all about democratizing the process," says Stephen Sheppard, an associate professor in both Landscape Architecture and Forest Resources Management, and a co-founder of CALP.

"By presenting complex information via landscape visualizations which depict conditions over time, we hope to create a more inclusive and informed way of making decisions."

CALP members will demonstrate the LIL on Dec. 3 from 1:30-3:30 p.m. at the lab which is in the Forest Sciences Centre.

MORE INFORMATION
Faculty of Forestry's 50th anniversary events www.forestry.ubc.ca/anniversary/index.htm

New foresters blend sciences

Students prepared for problems with no simple solutions

THE OLD SAW about how some people can't see the forest for the trees could never apply to UBC Forestry students.

On the contrary, if the opinions of fourth-year students Megan Sapruff and Lesley Fettes reflect those of the majority, their vision of the complex issues surrounding the forest industry appears to be multi-directional and far-sighted.

"My program provides a background for dealing with problems that do not have simple solutions," says Sapruff, who is majoring in Natural Resources Conservation.

"It involves the integration of many values for a landscape including biodiversity, visual quality objectives, non-timber forest products as well as timber production to produce a working solution that will accommodate all values."

Sapruff and Fettes represent a new generation of foresters — students who often combine equal measures of social and natural science in preparation for careers that range from helping developing countries to create a sustainable forest industry to international marketing of wood products.

Both Fettes and Sapruff see the issue of forest development on crown land as one of the most pressing.

"Because the land is public land, shifting public values have a large impact on the way in which forestry is practiced," says Fettes, who is majoring in Forest Resources Management and serves as the Forestry Undergraduate Society president.

"At the moment forestry is transforming from what was an industry based on resource extraction to one that must be socially, ecologically and economically sustainable."

Technology adds yet another element to an increasingly interdisciplinary field.

Graduate student Duncan Cavens exhibits the eclectic combination of skills and interests of an increasing number of students.

A master's candidate in a program that combines Computer Science, Forestry and Landscape Architecture, he designed and wrote the software used to model future images of forested landscapes in the Forest Resources

Management's Landscape Immersion Lab.

Regardless of the diversity of their programs and aspirations, the common refrain of many students is great respect for their professors.

"Learning about current forestry issues from professors who are involved in the debate and helping government and industry move towards a solution—that's when I begin to see what my niche might be," says Fettes.

'Think world-class, think B.C.:' dean's aim

Altering perception of the industry is dean's first goal

ALTHOUGH FORESTRY DEAN Jack Saddler shares many people's concern about the current sharp downturn in B.C.'s forest industry, he is still optimistic about its future.

"It's still the number one industry in export sales and it will continue to be for at least the next 30-50 years," says Saddler.

Advanced wood products, superior quality lumber, better trained personnel and emerging world markets will hold B.C. in good stead, he says.

Saddler is concerned, however, about the widely held perception that forestry is a "bad" industry.

The result of that, he says, is that many of the brightest high school students shy away from careers in forestry-related areas. This frustrates him because he is convinced that UBC has the potential to be the world leader in both the management of its forests and the sustainable production of wood products.

"When people think about world-class chefs, they think about France; if they think about world-class engineers, they think of Germany; if they think about soccer

players, they think about Brazil," says Saddler.

"If we do things right, when it comes to how forests are utilized in a world-class fashion to create jobs, recreation, communities, etc., they should think about British Columbia."

Altering the perception of the forest industry is the first of three challenges that represent the goals for the faculty's immediate future.

They are goals designed to lead B.C. out of the woods and position its forest industry as a global leader, one that is not only economically viable, but also ecologically sustainable and socially responsible.

"I think of them as the three R's," Saddler says. "Re-invention, recruitment and research."

The task of re-inventing forestry, he explains, involves convincing the public that the modern forest industry is, by necessity, focused on sustainability and therefore relies upon both the social and natural sciences to help stakeholders make informed decisions.

That said, the recruitment challenge isn't surprising.

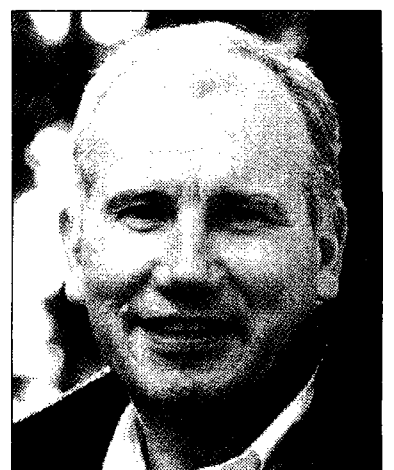
Saddler says that the faculty tends to successfully recruit students whose parents were in the industry, but it needs to attract more students from non-industry families.

Typically, the desired recruit is a top student who is interested in science, enjoys the outdoors and is concerned about socio-cultural and ecological issues.

"We need to help them understand that forestry needs people with expertise in diverse areas like conservation biology, molecular biology, hydrology, recreation management, native land claims, building design and landscape architecture," he says.

On the research front, Saddler speaks glowingly of the faculty's talent and interdisciplinarity, as evidenced by the number of cross-faculty appointments, and the extent to which researchers are introducing greater levels of technology into an "old economy" industry.

An expert in the production of ethanol fuels from forest residues and an avid camper, Saddler himself personifies the forestry sector that both wants to derive the highest value from the forest in social,



Forestry Dean Jack Saddler

ecological and economic terms while fully appreciating the beauty and uniqueness that is B.C.'s forests.

His contention that both the faculty and the provincial industry are well positioned is convincing. The raw material remains in relative abundance, the mistakes of the past notwithstanding. Equally important, however, is the production of two other natural resources — human capital and brainpower.

If developed simultaneously, Jack Saddler's vision may well be realized. Indeed, the pieces appear to be in place.