



## The sounds of learning

Students in Aboriginal education course  
create songs, perform for L-G

By Patty Pitts

It's not unusual for students learning to play new instruments or tackle new musical compositions to perform at the end of their course—but few students hold that performance in Government House in front of BC's new Lieutenant-Governor Stephen Point and play instruments they created themselves.

Yet that was the setting for about 50 graduate and undergraduate students, and some faculty members, who participated this fall in the Faculty of Education's 499/591 course on Indigenous teaching and learning. The course, developed by Dr. Lorna Williams, director of the faculty's Aboriginal education program, is designed to give future teachers knowledge about the history, languages and cultures of Aboriginal people.

Students in this year's "Earth-songs" course learned from sessional instructors Butch Dick and John Elliott, who were assisted by volunteer knowledge keepers Glenn Patterson, Fabian Quocksister and Bradley Dick, who was also a student in the class.

"The whole course is designed for students to get a sense of how teaching and learning occurs in the world of Indigenous people," says Williams. "It's a natural process and the idea is to have the students experience it."

Indigenous songs are often considered the property of First Nations families, so the students, working in teams, developed new songs for the course. Five songs were given to the faculty for use by future students and one, composed by Bradley Dick with help from George Shuagnessy, was given back to the Unity Drummers for safekeeping.

"The knowledge keepers either used their language or English to teach the song, and the students were encouraged to get a sense of the land that UVic sits on [traditional Coast Salish territory] because that's where the song comes from," says Williams. "The students were told to use whatever inspires them."

"It was amazing," says third-year music education student Catherine Gillis from Vanderhoof, who took the course out of an interest to learn more about the Aboriginal culture of many friends back home.

Kyla Belanger, a fifth-year education student from the Lower Mainland describes the course as "Inspiring. It made me gain an appreciation for Aboriginal culture. I now have pieces of music that I have permission to use, and I won't be so afraid to teach them now."

The students were equally proud, and attached, to their drums. "Once you make them," says fifth-year education student Angela Quinney, "they become your babies."



Education 499/591 participants at Government House

### Celebrate the season!

Enjoy some holiday cheer with your co-workers and meet the recipients of this year's President's Distinguished Service Awards at UVic's annual holiday reception on Dec. 12 from 4 to 5:30 p.m. in the University Centre cafeteria.

UVic President David Turpin will start the program off at 4:15 p.m. by recognizing the three individual winners and the team award recipients.

Last year's winners were: Joe Parsons (counselling services), Toni Garrett (engineering, and computer science/math co-op), Albert Labossiere (biochemistry and microbiology) and Michael Motek (computing services). The Distance Education Services Online Help Desk team won last year's team award.



The Ile de Sein laying cable for NEPTUNE

## NEPTUNE cable-laying completed

By Valerie Shore

The first phase of the new NEPTUNE Canada ocean observatory was completed last month off the west coast of Vancouver Island.

The cable-laying vessel *Ile de Sein* returned to Port Alberni on Nov. 7 after nine weeks at sea laying and partially burying 800 km of powered fibre-optic cable, repeaters, branching units and spur cables on the ocean floor.

The newly laid cable runs down Alberni Inlet and out into the open ocean in a large loop that extends across the continental shelf and lies as deep as 2,600 metres. In August, the first end of the cable loop was connected to the UVic shore station

in Port Alberni. On Nov. 7, the other end of the cable was winched ashore, closing the loop.

The cable is the backbone of the North-East Pacific Time-series Undersea Networked Experiments, or NEPTUNE, the world's first regional cabled ocean observatory. Led by UVic, NEPTUNE Canada will transform ocean science by transmitting data instantly to shore where they will be relayed to researchers, educational institutions and the public via the Internet.

The cable installation was supervised by Alcatel-Lucent, which, along with its subcontractors, is designing, manufacturing and installing much of NEPTUNE Canada's equipment and technology.

"As expected, the installation of the cable was challenging at times, but thanks to the expertise of Alcatel-Lucent, everything went very well," says Dr. Chris Barnes, project director of NEPTUNE Canada. "Alcatel-Lucent has now contracted another cable ship with a remotely operated vehicle to inspect sections of the cable route to ensure proper placement and burial."

Following the inspection, the focus will shift to the second stage of installation—the deployment of five 6.5-tonne nodes at scientifically significant locations along the loop, scheduled for summer 2008.

The nodes will eventually support

SEE NEPTUNE P.2

## Energy systems student wins major environmental fellowship

By Patty Pitts

Since 2004, the UVic Speakers Bureau has been a welcome outlet for mechanical engineering PhD student Aimy Bazylak's enthusiasm about fuel cell research and encouraging girls and young women to consider a career in engineering.

"It's one of the best outreach venues that I know of, and I like to participate in volunteer activities that make some sort of contribution to society," says the straight-A student.

Her passion for sharing her research, her outstanding academic record and her commitment to improving the environment recently earned Bazylak the 2007 inaugural Bullitt Environmental Fellowship worth \$100,000 US over two years.

"I am very honoured to accept this prestigious fellowship, and I am overwhelmed by the Bullitt

Foundation's commitment to invest in my future," says Bazylak, whose PhD research with the Institute for Integrated Energy Systems (IESVic) involves studying and controlling the flow of water, one of the by-products of the electrochemical reactions in fuel cells, to achieve higher efficiency.

Born and raised in Saskatchewan, Bazylak has always been keen about math and science. "I have always been interested in engineering, a profession that allows me to combine math and science to design solutions that will make positive impacts on society."

After earning an engineering physics degree at the University of Saskatchewan, she moved to Victoria in 2003 to study with UVic mechanical engineering professor and Canada Research Chair in Energy Systems Design and Computational Modelling Ned Djilali and his colleague Dave Sinton.

"Aimy seems to do well in anything she does and carries her passion for promoting clean energy into the community through public outreach and volunteer activities," says Djilali. "In between running experiments in the lab and devising new concepts in the design room, she gives public presentations on sustainable energy to community organizations and participates as a judge in science fairs to encourage middle and high school students."

Bazylak investigates liquid water transport in a porous layer of the fuel cell, called the gas diffusion layer. Hydrogen and oxygen undergo chemical reactions in the fuel cell that produce electricity, with water and heat as by-products. Achieving a delicate balance of water in the fuel cell is critical for optimal performance. Insufficient

SEE STORY P.4





### UVic researchers part of BC’s Climate Action Team

Six UVic-based researchers and a UVic student from the Common Energy Network have been invited to serve on British Columbia’s Climate Action Team. Clockwise from lower left: Dr. Ken Denman (Fisheries and Oceans Canada, Canadian Centre for Climate Modelling and Analysis (CCCma) and School of Earth and Ocean Sciences (SEOS); Dr. Greg Flato, CCCma and SEOS; Dr. Andrew Weaver, SEOS; Dr. Terry Prowse, Department of Geography and the Water and Climate Impacts Research Centre (W-CIRC), a joint initiative of UVic and

Environment Canada; Dr. John Fyfe, CCCma and SEOS; Naomi Devine (inset), Common Energy; and Dr. Frederick Wrona (inset), Department of Geography and W-CIRC. The team will offer advice to the government on reducing the province’s greenhouse gas emissions by 33 per cent by 2020 and on achieving the provincial government’s goal of becoming carbon-neutral by 2010. The team has 22 members and one special advisor. It will have until July 31, 2008, to complete its work.



## Top grades for UVic

UVic did very well in this year’s post-secondary fall rankings season. The university placed first out of the 11 comprehensive universities that participated in the annual *Maclean’s* magazine rankings of Canadian universities. UVic placed second in its category in the amount of medical and science grants it attracts, and also scored high for its overall ability to attract research funding, support for its libraries and support for scholarships and bursaries. Last year, UVic placed third in the comprehensive category.

“Year after year in various sur-

veys, UVic is ranked among the top universities in the country, and we’re always pleased to see that confirmed,” says UVic President David Turpin. “It’s a testament to our talented faculty and staff and to our outstanding students and a reflection of their commitment to UVic.”

This year *Maclean’s* gathered all its data from third-party sources. None of the participating universities submitted data or material to the survey.

UVic also received an A- in the 2007 *Globe and Mail’s* University Report Card on students’ overall satisfaction

with their university experience. UVic sent the *Globe and Mail* survey out to all its registered students, ensuring that the university’s ratings were based on the opinions of its whole student body, not just those who registered with the Studentawards.com database, as was the case in previous years.

UVic’s campus environment and atmosphere received top marks as did its computing equipment, online resources, the library, and faculty’s knowledge of subject matter. UVic’s tolerance for diverse opinions and ideas also received an A-.

## UVic United Way Campaign nears goal

By Tara Sharpe

There is still time to add a United Way donation to your shopping list this season.

After a non-stop round of prize giving in October and November, the UVic 2007 United Way campaign drew to a formal close in the last weeks of November with a final prize draw on November 30. English professor Dr. Richard Pickard won a Mac laptop donated by the UVic bookstore, while retiree Margaret Salmond won a two-night spa retreat provided by Tigh-Na-Mara resort in Parksville.

At press time, the donation total was approaching year’s \$250,000 target, with \$236,240 and 614 donations already collected after a variety of fundraising efforts across campus.

“As chair of our UVic United Way Campaign this year, I take great pride in our institutional response,” says Clint Hamilton, director of athletics and recreation. “And I want to thank the many people within our campus community who came together in tremendous fashion to support the United Way. Our goal of \$250,000 was our largest ever and through personal pledges and many special

initiatives, we are sure to touch our target and, even more importantly, reach out with meaningful support to people in need from our region.”

Results of the “Post-Secondary Challenge”—issued by Royal Roads University to UVic and Camosun College to see which institution can achieve the greatest increase in participation and donations—will be known after the other two contenders wrap up their campaigns.

Thanks to everyone for their donations and for helping to maintain a culture of giving in support of the United Way.

# Aroundthering

### More than 19,000 served

UVic student enrolment surpassed 19,000 once again this year. The final headcount as of Nov. 1 for the 2007/08 academic year is 19,193, including 2,460 graduate students. Nearly 11,200 students (over 58 per cent) are women and 1,620 students came to UVic from outside Canada. The Faculty of Social Sciences had the highest enrolment with 4,968 students followed by the faculties of science (2,812) and humanities (2,789).

### Shine the spotlight on UVic research

What do a particle physicist, a religious studies scholar and an ethnobotanist all have in common? They’re past winners of the Craigdarroch Gold Medal for Career Achievement, one of four award categories in the annual Craigdarroch Research Awards honouring research excellence at UVic. It’s time to nominate your colleagues for the 2008 awards. In addition to the career achievement award, the three other categories are research excellence, societal contribution and research communication. The nomination deadline is Jan. 31, 2008. For more information visit [www.uvic.ca/research/craigdarroch](http://www.uvic.ca/research/craigdarroch).

### Distinguished academics take note

Nominations are being accepted for the 14th annual CUFA BC Distinguished Academics Awards. Nominations for the Academic of the Year Award and the Career Achievement Award are due by Jan. 21, 2008. The awards will be presented on March 26. To learn more and download nomination forms, visit [www.cufa.bc.ca/](http://www.cufa.bc.ca/) (phone 604.646.4677, email [assistant@cufa.bc.ca](mailto:assistant@cufa.bc.ca)).

### Food for fines, the sequel

UVic Libraries’ Food for Fines program may be over, but there’s still time to reduce your parking fines and spread some holiday cheer at the same time. UVic’s Campus Security Services (CSS) is once again offering to reduce a parking ticket fine by \$5 to \$7.50 (depending on the original fine) for a donation of a non-perishable food item (only one donation per ticket). The offer is good until Dec. 24. Last year CSS donated over six boxes of food to UVic Student Family Housing, the Student Resources Centre and the Mustard Seed through this program. Bring your tickets and food to CSS during office hours from 8 a.m. to 4:30 p.m. Monday to Friday.

### Campus Security Open House

Come out and learn more about Campus Security Services at their first open house. Meet the people behind the front counter and talk with staff about their many services and programs, including parking and crime prevention. View table displays and enter the draw for great door prizes. Light refreshments will be served. Campus Security Building on Jan. 10 from 11 a.m.–2 p.m. Info: 721-8981.

### Books for Ethiopia

Exchange social work PhD student Emebet Mulugeta Ayele from Addis Ababa University is collecting books to build up new library collections in social work and other academic fields for her home university. She is the first student to participate in an exchange program initiated last year following a visit from the president of Addis Ababa University and the dean of its new school of social work. Emebet hopes to have many boxes of books ready for shipment by the time she returns to Ethiopia in January. She is seeking funds for shipping costs as well. Further information: [dbarker@uvic.ca](mailto:dbarker@uvic.ca).

### Think fast, win big

If you are a student working on an application utilizing high speed networks, you could win big with the BCNET Broadband Innovation Challenge. Winners get up to \$5,000 in cash awards and the chance to showcase their work to industry and academic professionals at the 8th Annual BCNET Conference in April 2008. Intention to apply must be submitted by Feb. 15, and a working application must be submitted by March 15. More info at 778-782-7864, [carlie.thauvette@bc.net](mailto:carlie.thauvette@bc.net), [www.bc.net/](http://www.bc.net/).

### NEPTUNE continued from p.1

more than 200 interactive sampling instruments and sensors, as well as video cameras and a remotely operated vehicle, as they collect data and imagery from the ocean surface to beneath the seafloor. The first live data flow is targeted for late 2008.

“The successful completion of the cable installation demonstrates the importance of close working relationships between the scientific community, the NEPTUNE Canada project team and our industry partners,” says Peter Phibbs, associate director of engineering and operations for NEPTUNE Canada.

“We’ll be working through the winter with Alcatel-Lucent and a Vancouver company, OceanWorks, to finalize node and junction box

technologies that are being developed for the first time anywhere.”

NEPTUNE Canada spans much of the northern Juan de Fuca plate, permitting broad studies on such topics as seismic and tsunami activity, ocean-climate interactions and their effects on fisheries, gas hydrate deposits and seafloor ecology. It will also promote new developments in marine technology, fibre-optic communications, power systems design, data management and sensors and robotics.

The development and installation of the NEPTUNE Canada observatory and its technologies is funded by significant grants from the Canada Foundation for Innovation and the BC Knowledge Development Fund.

**the ring**

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# 40,000 fewer pieces of paper

On Oct. 11, Purchasing Services hit a major milestone in reducing the use of paper on campus. Requisition forms were converted to an online format as of Oct. 16, 2006. One year later, Science Stores Supervisor Margaret Dawkins, above, found herself staring at the 10,000th form on her screen and realized there was cause for celebration. Ken Babich, Purchasing Services director, above right, says the 10,000 on-line WEBReqs have saved 40,000 paper pages.

# New continuing studies dean brings varied experience

Dr. Maureen MacDonald will join the University of Victoria as dean of the Division of Continuing Studies, effective Jan. 7, 2008.

MacDonald comes to UVic from the University of Manitoba, where she has served as director of continuing education for the past seven years. In this capacity, she has overseen the development, delivery, evaluation and administration of certificate programs, professional development seminars and contract training. Prior to that, she served for six years as director of University of Manitoba Downtown.

Before joining the UofM, MacDonald was a management consultant with KPMG in Winnipeg and Vancouver, working predominantly in the area of human resources management. She also practiced law in Winnipeg for several years.

MacDonald has a BA and LLB from the University of Manitoba, an MBA from McGill University and a PhD in educational leadership from the University of North Dakota. Her commuiny involvement includes terms on the boards of the United Way of Winnipeg and the Arthritis Society, Manitoba Division.

“The search committee was impressed with Dr. MacDonald’s range of experience and accomplishments, her understanding of and commitment to adult and community education, and her leadership abilities,”



MacDonald

says Vice-President Academic and Provost Jamie Cassels.

“A strong, well-respected continuing studies unit, a well-regarded university, a chance to live and work in Victoria—this is just one of those rare occasions where the stars align perfectly,” says MacDonald. “I’m thoroughly looking forward to this opportunity, to exploring ways in which continuing studies can continue to add value to the university and the community—and to putting my winter coat into hibernation.”

MacDonald succeeds Dr. Wes Koczka, who served as Dean of Continuing Studies from 1996 to Feb. 2007, and is currently principal of University of Canada West Academies. Joy Davis has served as interim dean.

# Fortherecord

Canada leads the world in deep ocean science and technology. Let’s keep it that way.

By Martin Taylor, President and CEO of Ocean Networks Canada, University of Victoria

A version of this column was published in The Hill Times (Ottawa), Nov. 5

The federal government’s science and technology strategy, released earlier this year, identifies international excellence as the goal in determining priorities for major new S&T investments. It builds upon the 2006 Council of Canadian Academies analysis of areas of Canadian S&T strength and competitive advantage—environmental sciences and technology, natural resources and energy, health and related life sciences and technologies, and information and communication technologies.

These areas of strength have been substantially bolstered in the last decade through federal investments in university research, especially the Canada Foundation for Innovation, the Canada Research Chairs program, increased funding to the federal granting councils, and establishment of the Indirect Costs of Research program. One critical outcome has been the development of a small number of major science initiatives (MSI) in Canada that have the capacity to support world-leading and transformative research programs across the country. Prominent among these are the NEPTUNE Canada ocean observatory, the Canadian Light Source, the Sudbury Neutrino Laboratory and the *Amundsen* icebreaker.

In each case, the MSI infrastructure places Canada in a position to achieve and sustain international research excellence in niche areas of global competitive advantage, while affording major benefits to Canadians through applications of S&T to economic development, public policy and public education and outreach. A prime example is NEPTUNE Canada, the world’s first regional cabled ocean observatory.

Understanding the oceans has never been so critical to our national and global future. The oceans feed us, determine climate patterns, and

harbour in their depths many of the biological, chemical and geological processes that continue to shape our planet. Our existence literally depends on them. The NEPTUNE Canada deep-ocean observatory is an 800-km fibre-optic cable system on the Juan de Fuca tectonic plate off the coast of British Columbia. Led by the University of Victoria, it is securing Canada’s place at the forefront of international ocean S&T.

NEPTUNE Canada is a platform for transformative science focused on earth-ocean system processes and events. It is enabled by new technologies that provide continuous power to remotely operated instruments at ocean sites of maximal scientific importance, yielding continuous data via the Internet. The observatory will for the first time allow land-based scientists from St. John’s to Victoria and around the world to conduct offshore and deep-sea experiments remotely, responding instantly to events such as earthquakes, tsunamis, fish migrations, plankton blooms, storms and volcanic eruptions. The observatory will support broad studies on topics such as seismic and tsunami activity, ocean-climate interactions and their effects on fisheries, gas hydrate deposits, and seafloor ecology.

NEPTUNE Canada is the focus of world attention as the prototype for observatories being planned by the U.S., Japan, the European Union and Taiwan. Canada is in the lead and will be for at least the next five years. This creates significant entrepreneurial advantages for Canadian companies to develop new marine technologies and turnkey ocean-observing systems, and to transfer spin-off technologies, services and data management systems into other commercial sectors.


Governments at all levels are also recognizing the value of NEPTUNE

Canada data as the basis for evidence-based public policy in such vital areas as climate change, natural hazard prediction, resource assessment and national security. There is an immediate opportunity to apply NEPTUNE Canada knowledge, infrastructure and monitoring capability to address urgent research-based and security issues in the Arctic, as signaled in the recent Speech from the Throne.

The science and its applications made possible by Canada’s capital investment in NEPTUNE Canada align exactly with the goals and priorities of the federal S&T strategy. Now is the time for Canada to capitalize on the unique opportunities created by NEPTUNE Canada, and the other major science initiatives in this country, by funding the operating costs required for them to achieve their full potential and sustain Canada’s world leadership in our niche areas of S&T.

The Canada Foundation for Innovation has been instrumental in funding the capital costs for these most recent MSIs, but is not mandated to support the substantial ongoing operating costs. The federal granting councils do not have the capacity to assume these major additional costs either. Other international jurisdictions—the US, UK and Australia—face similar challenges but have made provision for funding the long-term operating costs in concert with the initial capital investments. Canada must now act quickly to match these strategic moves, so that the advantage we’ve gained through our capital investment doesn’t slip away.

The Science and Technology Innovation Council just appointed by Industry Minister Jim Prentice has an opportunity to address this issue as an urgent priority for Canadians. In an increasingly competitive global S&T race, there’s no time to lose.




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Clayton

## Nursing students use backpacks for much more than books

By Angela Voht

School of Nursing students Ryan Clayton and Matt Erickson have been on the front lines of hard-core community outreach this semester. In their fourth year of studies, these soon-to-be nurses are weaving hope and empathy into the sparse fabric of the Crystal Meth Society's (CMS) non-profit resource pool.

Clayton and Erickson are participants in the School of Nursing community placement practica that links students with community organizations that can benefit from the school's health promotion and harm reduction mandate. They have been working with the Crystal Meth Society's addiction training and street outreach program since September. CMS and their clients benefit from the students' enthusiasm and empathy. The students explore their ability to influence change as they go out into the community to learn. And the nursing program is enriched as students bring their practicum experiences back to share with colleagues.

The nursing practicum students commit about six hours a week over a 12-week period, but those six hours are challenging. Outreach with CMS involves caring enough to connect with people who are on the fringes of society, and often stigmatized for their very existence. As a result, they're not always immediately willing to trust an approaching stranger. "This is a relatively new program. We want to establish a relationship with them first, to tell them that there are people out there who do care about them and they're not completely alone," explains Clayton.

The students also act as conduits to other resources, providing information about shelters, food banks and health clinics. They sometimes

see physical conditions that need to be treated—cuts, abscessed injection spots and chronic conditions that manifest more seriously when one is living on the street. Though these clients tend to go without care for too long, the students encourage them to seek more formal care. "They talk about the way they're treated in the emergency department. Many are

**"We're learning everything from reading body language and facial expressions as we approach people, to how to assess someone's overall physical condition," says Clayton.**

afraid to access health care, so we might be their first contact, and what they perceive to be a safe contact," explains Erickson.

For Clayton and Erickson, an average night of outreach also includes approaching local businesses for donations of food, water, socks, gloves, blankets and basic medical supplies. Cobs Bread has been a consistent donor, and Wal-Mart and Costco have made donations. Nevertheless,

it requires a lot of collaboration and co-operation amongst the student team to be able to make the deliveries happen. And often funds for supplies come out of the students' own pockets. Once supplies are prepared, they go into backpacks, and the group heads into town.

"When we're out there, we just walk around wherever we happen to meet clients—approach them from afar, present who we are, tell them about what we're doing," says Erickson. "Usually they open up, and we'll go talk to them. Or some might just be starting to get high and won't be in a space to talk. So we always have to read the person and play the situation as it comes."

"We're learning everything from reading body language and facial expressions as we approach people, to how to assess someone's overall physical condition," says Clayton. "And especially how important it is just to talk to someone, let them know you care about their situation—that you see them."

Respecting personal space and paying heed to their own safety, while generating positive relationships based on trust and empathy and providing nutrition and harm reduction strategies—it's a tall order. "We operate without funding for this unique nurse training program, and are badly in need of financial donors and supplies," says Marilyn Erickson, vice-president of CMS.

Eager to make a difference in their communities while learning from the experience in a way that can't happen in a classroom, Clayton and Erickson are clearly benefiting from the work as much as the individuals they serve. "We get a tremendous response," says Clayton. "The gratitude we receive is very sincere. It's truly a good thing for everyone."

## Vikes season a series of close calls

The Vikes women's rowing team missed bringing home their ninth national title by just half a second last month, finishing second to Queen's at the Canadian University Rowing Championships in Welland, Ontario. Vikes' women's rower Leah Volkens was named the championship's Oarswoman of the Year. On the men's side, the Vikes took third behind Western and Queen's.

The UVic Vikes women's field hockey team claimed the Canadian Interuniversity Sport (CIS) bronze medal with a 3-1 victory over Canada West-champion UBC Thunderbirds at the 2007 CIS National championship in Toronto Nov. 4. The Vikes have now earned medals at 17 of the past 20 CIS championships, including eight golds, seven silvers and two bronzes.

Goalkeeper Kaitlyn Williams was named CIS Rookie-of-the-Year. She also took Canada West Rookie-of-the-Year honours and was named to the Canada West second All Star Team with fellow Vike Natalie Wise. Team mate Ali Lee was named to the first team.

The Vikes women's soccer team twice played to scoreless ties in their CIS championships only to see their hopes for advancement dashed in shootouts. The team, silver medalists to UBC in Canada West play, lost the CIS bronze medal game to

the same team 1-0 (4-3 on penalty kicks) in November.

The Vikes lost their chance for a berth in the gold medal game in another shoot-out heart-breaker against the York Lions. Cape Breton ultimately won the championship on home turf in Sydney, Nova Scotia. Vikes soccer student athletes Amy Thorogood and Ali Bach were named to the All Canadians second team.

The Vikes also placed a record six members on Canada West all star teams. Thorogood and Bach were both named to the first team while fourth-year defender Sarah Cameron, second-year defender Holly Fiddick, fifth-year midfielder Mariel Solsberg, and third-year striker Janelle Smith all made the second team. Team co-captain Solsberg was named this year's Canada West Student-Athlete of the year. She was a 2006 Canada West all-star and a member of the Vikes' 2005 CIS championship team.

The Vikes men's soccer team lost out on a Canada West medal to the University of Alberta Golden Bears in a shootout on Nov. 4 in Langley. Vikes striker Cole McFarlane was named a first team all-star while midfielder Sam Wingham and goalkeeper Dan Kilpatrick were named as second team all-stars.

### Bazylak continued from p.1

water levels may result in membrane dry-out, while excess water may lead to flooded conditions, both of which can lead to shut-down. Understanding how water behaves in the complex porous media of the fuel cell could eventually lead to improved material designs for managing water.

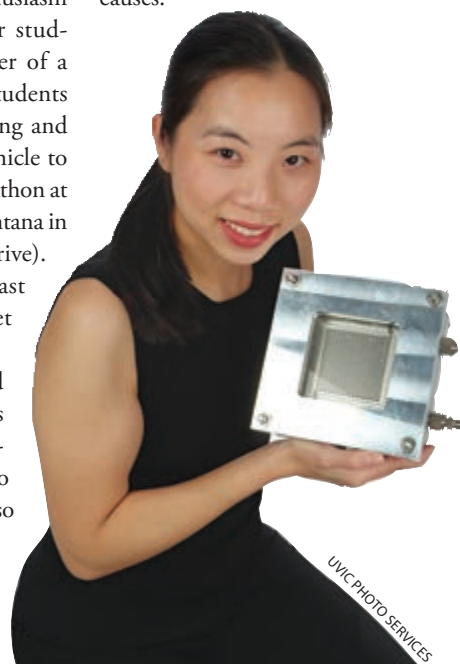
"Fuel cells have the potential to be more efficient than the combustion engine and to last longer than batteries," says Bazylak.

She doesn't limit her enthusiasm for alternative energy to her studies. Bazylak is also a member of a team of UVic engineering students ("H2Drive") who are designing and building a fuel-cell hybrid vehicle to compete in the Shell Eco-Marathon at the California Speedway in Fontana in April ([www.me.uvic.ca/~h2drive](http://www.me.uvic.ca/~h2drive)). The vehicle that uses the least amount of energy over a set distance wins.

Bazylak's own favoured method of transportation is perhaps the most energy-efficient of all. The student who maintains a perfect 9.0 GPA also runs marathons.

The Seattle-based Bullitt Foundation is a private philanthropic foundation that

provides funding to individuals and nonprofit organizations working to safeguard the natural environment by promoting responsible human activities and sustainable communities in the Pacific Northwest. The fellowship was established to honour long-time foundation chair, the late Priscilla "Patsy" Bullitt Collins, who devoted much of her life to working for the public good and donated a multi-million dollar inheritance to various causes.



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# Janitor off to Panama to start coffee co-op

"It took nine years for me to find the perfect cup of coffee," says local coffee entrepreneur and UVic janitor Damian Reed. Not that Reed was searching for the perfect caffeine fix; it just came about as part of his 12 years of work as a Jehovah's Witness missionary in Panama.

A year and a half ago Reed used his CUPE signing bonus to buy a roaster from Panama and start Custom Roast Coffees. Since then he has been selling to a couple of local businesses and to his coworkers and friends.

Now Reed is taking a one-year leave of absence from his job at the university so he and his Panamanian wife, Odalis, can sell their Victoria-based coffee business and return to Panama to start a coffee growers co-op.

"As part of my work I travelled the entire country helping people organize and direct congregations," recalls Reed. "But it wasn't until I visited the province of Coclé and participated in the coffee harvest that I found the perfect cup of coffee. I roasted it according to their directions and it was really different from anything I had ever tried.

"However, when I was living in Panama I was very upset to see how the farmers lived," Reed explains. "The farmers with small farms were paid just an average of \$1,300 a year for their crops. When I visited Panama in September I had a meeting with coffee farmers from the provinces of Chiriquí and Coclé. They described how trying to compete with big business was forcing them to sell their small farms or cut down the crops and abandon their land."

Reed wanted to do something to help. He also wanted to give



his wife, who is in poor health, an opportunity to be with her family and friends. And so he put his dream of a coffee co-operative into motion.

When they arrive in Panama at the end of January, Reed will use organizational skills developed during his days as a missionary to unite farmers in both provinces and enable them to sell their products together.

"I want to form a body that trains farmers to operate their own co-operative," says Reed. "They already know their product, they just need someone to organize them and get them on their way to selling internationally."

The co-op is seeking sponsors. Meanwhile coffee brokers in both Seattle and Victoria have expressed an interest in its products.

While the co-op is Reed's primary project, it won't support him financially for quite a while, so he may end up teaching English as a second language. A certified ESL instructor, Reed has already arranged a job interview in Chiriquí. He also has a lot of experience under his belt: he has worked as a translator for UVic linguists Suzanne Cook and Barry Carlson on a project aimed at helping the Lacandon Mayan Indian tribes preserve their language and culture.

Before he leaves town to start the co-op and teach ESL, Reed still has one big task—he must sell his coffee business.



UVic janitor Damian Reed custom roasts a small batch of coffee using a roaster he imported from Panama.

# Caring for the footweary homeless

By Beth Haysom

It's Tuesday morning at Victoria's Our Place sanctuary for street people, and Island Medical Program student Sarah Peters gently washes, massages and salves a woman's life-worn and needle-punctured feet that are resting in her lap.

Our Place—now in temporary quarters on Johnson Street—is a combination of the former Open Door and Upper Room that provides a haven for the homeless, street-weary, drug addicted and those seeking relief from loneliness or the torment of mental illness.

Peters is giving weekly foot therapy sessions there as part of her second-year Doctor, Patient and Society Program, a requisite course for future doctors, now studying medicine on Vancouver Island through a collaboration of the University of Victoria and the University of British Columbia Faculty of Medicine. Students may choose an independent project as part of the program's community service learning.

Peters' pedicure corner—just two plastic chairs, a garbage bag-lined washbowl filled with hot water and Epsom salts, soft towels, peppermint foot cream and dusting powder, and spare fresh socks—is a peaceful oasis amid the usual breakfast-time hubbub, TV sports/news chatter and pool table clicks, shouts and laughter.

She applies fresh band-aids, chats quietly and non-judgmentally discusses care of the needle wounds. The woman, totally relaxed by the comforting foot treatment, falls into a deep sleep. Bliss for once that didn't come from a syringe or a bottle.

"I do seem to have a soporific effect on people," says Peters, cheerfully greeting familiar faces as she crosses the crowded room to refill her bowl for the next person. Peters has become extremely popular since she started doing foot treatments in October. Her pedicure sign-up sheet fills up as soon as she walks in the door.

"It's awesome," says Eddie Golko, rolling up his jeans for his foot treatment. "Being homeless, you feel like a bum, not worthy. Being pampered, important enough to be taken care of, that makes me feel like a somebody again, like I'm still human."

"I'm getting to know people, hearing their stories and finding out why they are where they are," says Peters. "I was surprised, many were just ordinary people leading everyday lives when something happened, or a series of events led them into the cycle of addiction, poverty and homelessness."

Peters believes this experience will prove valuable in her future medical career. "I'm beginning to understand the impact of homelessness and the struggles people have with mental illness and addictions. It's huge," she says.



Sarah Peters massages a client's feet at Our Place

Such knowledge and understanding is exactly what the directors of the Doctor, Patient and Society curriculum are hoping to achieve through the one half-day-a-week course taught during the first two years of medical studies.

**"Being pampered, important enough to be taken care of, that makes me feel like a somebody again, like I'm still human."**

The course, developed in Vancouver in 1998 as part of the UBC MD undergraduate program, continuously evolves in its goal to give students an understanding of the realities of practising medicine within a context of social accountability. It addresses the doctor/patient relationship and professional responsibilities in a diverse socio-cultural milieu.

Guest lecturers from all walks of life and tutor-led discussions help students address issues that they are

likely to encounter in medical practice such as abortion, drug addiction, Aboriginal health care issues, ethics and the health effects of poverty and homelessness. Students are encouraged to do independent follow up and research into their own areas of interest.

"The practical community service component that Sarah has chosen is an ideal way to come to grips with the harsh health realities for people coping with homelessness," says Dr. John Anderson, Doctor, Patient and Society course director for the Island Medical Program. "She is learning a great deal about others and herself and is also providing an enormous service for the Our Place community."

"No kidding," says Sandy Bell, an Our Place outreach worker. "I can't tell you how much it means to have Sarah here." Many of the homeless suffer from "street feet," which, Bell explains, are really sore feet, blistered and damaged from walking around all day with no means to change socks and shoes or care for their feet.

Peters, a former Canadian cross-country ski champion who has now taken up marathon running as an antidote to the demands of a medical degree, understands what it means to put your best foot forward.

"Of course it would be wonderful for some of these people to give up drugs and get a new life off the street ...but that's the big picture. If what I do helps people to feel better about themselves, then maybe that's a first step for them," she says.

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The new calendar is also available on our website. Call **472-4747** to register or visit [www.continuingstudies.uvic.ca/](http://www.continuingstudies.uvic.ca/)

University of Victoria



Continuing Studies



# CEOR is now ICOR

Institute focuses on ocean and coastal issues

The Centre for Earth and Ocean Research (CEOR)—created in 1987 and one of the first interdisciplinary centres on campus—is changing its name to the Institute of Coastal and Ocean Research (ICOR). Along with the name change is an expanded mandate focusing on initiating, creating, conducting, coordinating and promoting interdisciplinary research on ocean and coastal issues and related policy matters. The institute will involve a broad range of scholars (including natural and social sciences, humanities, law and fine arts) at UVic and other universities, as well as all levels of government and the private and community sectors.

Its links with outside agencies include the Institute of Ocean Sciences (Fisheries and Oceans, Canada), Pacific Geoscience Centre (Natural Resources Canada) and the Canadian

Centre for Climate Modelling and Analysis (Environment Canada). ICOR administers several research facilities and large research projects: the Canadian Marine Acoustic Remote Sensing (C-MARS) facility, the Canadian Consortium for Ocean Drilling (CCOD) and the West Coast portion of the Coasts Under Stress Project (CUS), for example.

Research topics pursued under the auspices of ICOR include: geophysics and geology, both terrestrial and marine; physical, chemical, geological and biological oceanography; underwater acoustics; atmospheric and oceanic modelling and climate change.

Dr. Rosemary Ommer was appointed acting director in July 2006. The institute is currently searching for a new director. For more information visit <http://icor.uvic.ca/>.

# UVic student shares vivid pictures of HIV/AIDS education in Africa



L-R: Suzanne Brouillette, from the University of Nipissing, Gordon and Aïda Ouegraogo from the University of Ouagadougou presenting the *outil visuel* project in Koudougou.

By Tara Sharpe

UVic undergraduate student Heather Gordon had the best kind of gift to unwrap last December when she received notification of her acceptance for a six-week study seminar in Africa.

The World University Service of Canada (WUSC) offers the international seminar every year through Unitera, a joint program of WUSC and the Centre for International Studies and Cooperation. Gordon had been selected with 19 other Canadian university students for this year's event in two West African countries, Burkina Faso and Ghana, with the topic focused on barriers to basic education about HIV/AIDS.

The subject remains sadly topical. World AIDS Day took place on Dec. 1 with the plight of children in the spotlight. On Nov. 29, a new survey conducted by Ipsos Reid concluded Canadians show the greatest degree of empathy among the seven G8 countries toward those affected around the world.

WUSC is rooted in this level of compassion. Every year since the late 1940s, 20 Canadian university students have traveled overseas to partner with local university students and engage in collaborative research under the guidance of academic advisors from Canada and each host country. Early on, Canadian students were stationed in European countries devastated by World War II; since then, students have travelled to other continents including South America

and Asia, with Africa being the chosen destination this last decade.

Before leaving Canada, each of the students had to raise at least \$3,000 in support of their journeys and the intensive seminar. Gordon chose to do a sprint-distance triathlon (1-km swim, 20-km bike, 5-km run), collecting donations at \$1 per kilometre. Thanks to additional contributions from various UVic departments, Gordon raised a total of \$3,800 before setting off for Africa.

Gordon arrived in the landlocked country of Burkina Faso in early July. It is one of the world's poorest nations, with an extremely high rate of HIV and AIDS infection, and WUSC's work there is concentrated on the direct link between gender inequality and the spread of HIV. Education through direct discussion and visual presentations is WUSC's primary tool in communicating the common risks of infection to residents living in the rural communities.

As a fourth-year education student, Gordon was already prepped to teach. She was partnered with Roxanne Kompaore, a psychology student at the university in Ouagadougou, Burkina Faso's capital, and both women were billeted to a local family's house in a nearby town.

From there, alongside two other students, they visited the outlying rural communities and gathered the villagers into groups based on age and gender (allowing everyone to feel comfortable asking sensitive questions without embarrassment).

Gordon says, "In one particular

community, there was a lot of apparent confusion initially. We couldn't understand why, until we discovered two local people had just passed away only the night before, from AIDS."

Burkina Faso's official language is French, which Gordon speaks, but Kompaore did most of the talking in the Moré language of the region. The team used a large poster-size flip-chart booklet. Kompaore would pose prompting questions such as "Why do you think this woman is wearing gloves?" and the discussion would evolve to answers about blood tests before marriage, the use of condoms, a request for doctors to wear gloves during childbirth, et cetera.

Gordon assessed how well the booklet worked, and concluded it was the most versatile and immediate means within this context of initiating conversation. Before leaving Burkina Faso, she used the remaining \$800 of her funding to print 20 new booklets including artwork she created herself.

Having returned to Canada, Gordon finds the contrasts almost too sharp. "With NGO work, it can be the donor who benefits the most," she says. "Change is slow moving and there aren't any clear answers for a challenging situation like this, but certainly I know we have far too much here in Canada and they have much too little in Burkina Faso. I was the one who got to meet them, to engage in a cultural exchange, but it is the families and the little children in Burkina Faso who are the real story."

MATHIEU LAFRENIERE

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Calendarhighlights

Events free unless otherwise indicated. For a complete list of events, see [www.uvic.ca/events](http://www.uvic.ca/events)

**At the galleries**  
[www.maltwood.uvic.ca](http://www.maltwood.uvic.ca)  
**721-6562**

*Where Art is Born: Artists in Their Studios.* Until March 31. Robert Amos. Studio portraits of 33 southern Vancouver Island artists supplemented by original artwork, mostly drawn from the university's collection. Maltwood Art Museum and Gallery. University Centre B115.

*A Book Arts Mosaic and Millennium in a Box.* Until January 20. A book art installation by the Canadian Bookbinders and Book Artists Guild. McPherson Library Gallery.

**Thursday, December 6**

**Other** 4:30 p.m. *Ring Around a Rosary.* Also Dec. 13/20. Walk the Ring Road, pray the rosary's luminous mysteries and end up at the SUB for refreshments. Campus Services 151. **721-8339**

**Chemistry Lecture** 5:30 p.m. *Residual Environmental Impacts of Chemical Warfare – Agent Orange in Vietnam.* Grant Bruce, senior

**When is the next Ring?**

Calendar items should be sent by 4 p.m. on the copy deadline date shown below to UVic Communications (Sedgewick C149, fax 721-8955, e-mail [ucom@uvic.ca](mailto:ucom@uvic.ca)) or entered into the online calendar ([www.uvic.ca/events](http://www.uvic.ca/events)). For information call 721-7636.

Publication Date	Copy Deadline
Thursday, January 10.....	Wednesday, December 19
Thursday, Feb. 7 .....	Wednesday, Jan. 30
Thursday, March 6 .....	Wednesday, Feb. 27
Thursday, April 3 .....	Wednesday, March 26
Thursday, May 1 .....	Wednesday, April 23

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Viewpoint

Eighteen years later, memorial event remains incredibly important

By Amber Dujay, fourth-year political science student

When I began planning the December 6th memorials to combat violence against women, I think I was fairly naïve. Before starting the organization for the memorials, I would never have predicted that an issue I saw as so straightforward—the ending of violence against women—would be so controversial and debated.

On December 6, 1989, a lone male walked into the engineering school of l'Ecole Polytechnique in Montréal and gunned down 14 women. His rationale for this act was simply anger: he had been rejected from the engineering school and he blamed this on the women who had taken his “rightful” place. These women, who were doing nothing more than pursuing their dreams, lost their lives simply because they were women and this man could not handle the idea that they could be superior to him. This episode shocked the nation, as it was a visible showcase of the still concurrent anger against women in Canadian society. December 6 was made a day of national remembrance to commemorate the lives of the women, and later it became a day of action to stop violence against women.

I find that while it is still incredibly important to remember what happened on December 6, 1989, it is even more important to recognize that this was not an isolated,



Amber Dujay, coordinator of this year's ceremony, stands beside the Clothesline Project organized by the Anti-Violence Project for display at the memorial. The t-shirts were painted anonymously by survivors of sexual abuse and violence.

random incident. Attacks against women happen every day, in so many situations. Through organizing the memorial for the past few years, I have been able to hold many discussions on the topic of violence against women, and it never ceases to amaze me how many individuals do not believe that it is still a problem in Canada. For instance, the number of men who adamantly deny that women can be abused in modern society with all of our political correctness, and the number of women who adamantly deny that they are feminists, because feminists are angry and bitter and not in touch with reality.

The reason I organize the memorial and continue to call myself a feminist is to educate people that violence against women is still very

much a reality in Canadian society. It transcends stereotypes, economic and racial divisions, and even our academic/professional divisions. Violence against women is not limited to certain incomes; domestic violence is as prevalent among professionals as it is among non-professionals. None of us are immune to becoming victims, neither the women who are assaulted nor the men who are in their lives. The only way that we can hope to stop violence against women is through recognizing that it still exists and altering our mindsets and our actions to physically stop it.

I hope that the memorial at UVic on December 4 has given students and faculty an opportunity to think critically about their behaviours and about violence against women as a whole.


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# Ringers

**Susan Bazilli** has been appointed director of the International Women's Rights Project (IWRP) in UVic's Centre for Global Studies, after serving as its co-director with Marilou McPhedran. McPhedran has left UVic to take a position as chief commissioner of the Saskatchewan Human Rights Commission. She has been on leave from the centre as the visiting professor holding the Ariel F. Sallows Chair in Human Rights at the University of Saskatchewan College of Law. "We are sorry to lose [McPhedran], but we know that she will bring all her expertise and commitment to Saskatchewan in this very important position," says centre director Gordon Smith, "and we are delighted to continue the work of IWRP with Susan as director."

**David Boyd** (POLIS Project on Ecological Governance) appeared before the Riksdag (Sweden's parliament) this fall as the country approaches the 10-year anniversary of its ambitious blueprint to solve Sweden's environmental problems within one generation. Sweden's environment policy is based on 16 environmental quality objectives for different areas, adopted by the Riksdag in 1999 and in 2005. To monitor progress towards the goals, the government has set up an Environmental Objectives Council, which invited Boyd to present an international perspective on Sweden's efforts. "The Swedes are hard on themselves, but the fact is that they are really light years ahead of Canada," says Boyd. "They aim high, work hard and are making steady progress. I really feel strongly that their model could work in Canada if we gave it a shot." Boyd will be advising the council on an ongoing basis as it works towards a new law with updated targets and stronger policies in 2009. For more information visit <http://www.miljomal.nu/english/english.php>.

**Judy Rogers** (MPA '99), Vancouver City Manager, has been honoured with an alumni award of excellence by the School of Public Administration. Rogers, appointed Vancouver City Manager in 1999, is the first woman to hold this prominent position. Her work on Vancouver's 2010 Olympic bid was instrumental to its success. She is a recipient of the Institute of Public Administration of Canada Lieutenant Governor's Silver Medal and has been recognized each year since 2003 as one of Canada's Top 100 most powerful women by the Women's Executive Network. Before becoming city manager she pioneered work on emergency daycare services for the downtown eastside of Vancouver.

**Dr. Anita Molzahn** (nursing) has been awarded the prestigious annual Ethel Johns award from the Canadian Association of Schools of Nursing (CASN), presented in recognition of distinguished service to nursing education in Canada. During Molzahn's tenure as dean of the Faculty of Human and Social Development (1996–2003) and director of the School of Nursing (1992–96) academic programs in the school grew substantially and the nursing curriculum was recognized as among the most innovative in Canada. Molzahn is acclaimed internationally for her work on quality of life, particularly in the context of nephrology care. Recently she has participated in an international study of quality of life and healthy aging in association with the World Health Organization and colleagues from 22 countries. She is the past chair of the Kidney Foundation of Canada and the American Nephrology Nurses Association. At present she is the coordinator of the new PhD program within the school.

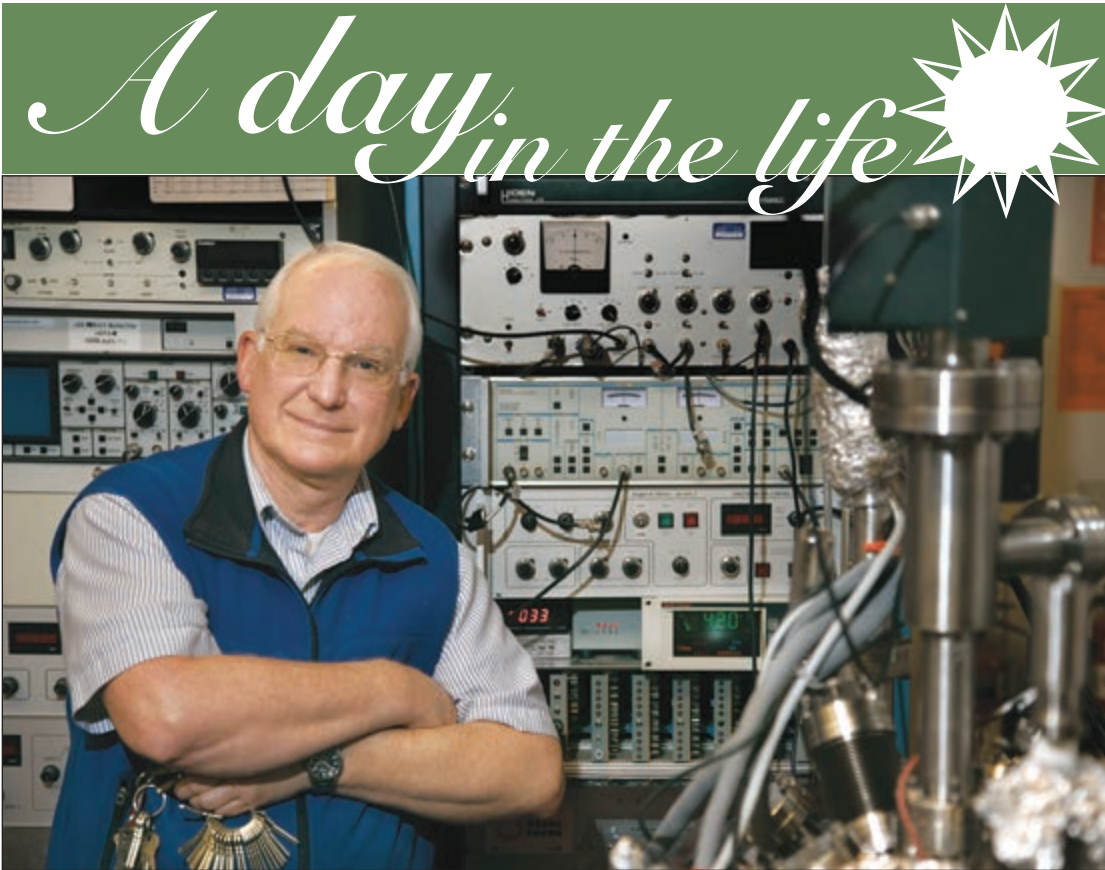
Two of UVic's Canada Research Chairs have recently been renewed for second terms. As the Canada Research Chair in Climate Modelling and Analysis, **Dr. Andrew Weaver** (earth and ocean sciences) is one of the world's leading climate researchers and has developed one of the most sophisticated climate modelling facilities on the planet. He's also a prominent and vocal advocate for science-based discussion of climate change and public policy. His tier-one chair is renewed for seven years. As the Canada Research Chair in Molecular Interactions, **Dr. Alisdair Boraston** (biochemistry and microbiology) studies how proteins interact with sugars—information critical to our understanding of processes such as microbial infection, recycling of plant carbohydrates, cell development, carcinogenesis, immune response and reproduction. His tier-two chair is renewed for five years. UVic currently has a total of 34 Canada Research Chairs.

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Dean

A DAY IN THE LIFE OF BOB DEAN can include looking after about 220 PCs, fixing an electronic failure on a nuclear magnetic resonance spectrometer, or replacing the laser on the Fourier transform infrared spectrometer. Dean has been an electronics technician in the chemistry department for the past 28 years. As a result of lay-offs in the '90s, his unit lost one person and was reduced from operating as engineering technologists designing and building curciuts to mainly doing repairs. Because there are only two people in his unit, they are busy all the time.

His greatest satisfaction comes from helping people with equipment they need to get their work

done. "It would be hollow without that. Hardware is just a means to an end," he says. Dean maintains an undergraduate computer lab of about 20 computers and helps graduate students with computer problems related to their research. "A computer problem can be a crisis for their research and needs to be fixed immediately."

After high school in Victoria, his interest in math and science led him to technical school. "Since then I've had the curse of full employment," he laughs. "Never laid off and steady employment for 45 years." Dean started his working career with a pioneering radio communication firm. After working for an electronics

company, he moved to work for the City of Victoria and then to UVic, where he could do circuit design and instrument construction, work he finds challenging and diverse.

He enjoys his motorcycle and, in spite of an accident that left him with a broken leg, he wouldn't give it up. On Sunday mornings he rides up island. "I've had eggs Benedict everywhere between here and Courtenay." He raced his sailboat for about three years and likes to travel on family trips with his wife and daughters. "I've enjoyed the electronics field, met some nice people and worked in nice places. It's been good. You're lucky if you can find a field that works for you."

## Legal info clinic combines learning and community service

Can your landlord really evict you for hosting that party? Can the boss send you home without pay because you sprayed yourself with perfume? Can the insurance company really refuse to provide replacement costs for the camera stolen from your car?

Legal knowledge is most definitely power, and if you're like most people, you feel pretty powerless when faced with even basic legal questions. So where can you go to get that empowering legal knowledge?

For more than 25 years, the UVic Legal Information Clinic (LIC) has provided free, confidential legal info to anyone—on-campus or off—who cares to drop by and talk. Run by volunteer law students, the clinic helps in such areas as landlord/tenant disputes, motor vehicles, contracts, family issues, employment, consumer issues, human rights and small claims.

And if a client needs help in other areas, including criminal law, prop-

erty transactions, personal injury or litigation, the clinic can help them with appropriate referrals.

At any given time, there are about 40 law students who volunteer with the clinic. While they are not lawyers, they are trained in listening, interviewing and legal research, and the information they provide—in the form of a letter—is thoroughly vetted by a UVic law professor.

"For clients, it's a place to be heard and to get the information they need," explains second-year law student and LIC Director Cam Wardell. "And for the students, it's a great opportunity to learn how to interact with clients and get practical experience dealing with real issues."

"In first-year law, you cover a lot of legal theory," says Dana Dempster, an LIC volunteer who was involved in researching several cases last year. "So it's really good experience to see the real-life application of law and

actually help people."

The LIC, in Fraser 138, is open for drop-in visits only. The hours are Tuesdays and Thursdays from 12:30–1:30 p.m. and Wednesdays 5–6 p.m. It will re-open on Jan. 29.

The Faculty of Law also provides students with opportunities for practical learning and community service through:

The Law Centre, which helps clients who cannot afford a lawyer [[www.thelawcentre.ca/](http://www.thelawcentre.ca/)].

The UVic Environmental Law Centre, Canada's only public interest environmental law clinic [[www.elc.uvic.ca/](http://www.elc.uvic.ca/)].

The Business Law Clinic, which provides legal information to businesses for a nominal fee [[www.business.law.uvic.ca/](http://www.business.law.uvic.ca/)].

Pro-Bono Students Canada at UVic, which provides legal services to communities in need [[www.pbsc-uvic.ca/main/](http://www.pbsc-uvic.ca/main/)].



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