

SPEED READING

COMMUNITY INVOLVEMENT

Nursing students help move patients into new hospital tower

In a massive, yet smooth move, more than 200 UVic nursing students helped nearly 300 patients transfer from the old inpatient units and settle comfortably into the new Patient Care Centre at Victoria's Royal Jubilee Hospital March 13. Story, p.6

HUMANITARIAN AWARD

Paralympian law student honoured for community involvement

Jessica Vliegenhart—an inspiring public speaker for WorkSafeBC, a Canadian Paralympic athlete and community volunteer—has received the Ann Roberts Humanitarian Award from the Faculty of Law and the Victoria Bar Association for her outstanding contribution of time and effort to the well-being of the law school the community at large. Story, p.5

EMPLOYMENT EQUITY

Survey helps UVic meet equity goals

If you are a newer UVic employee, you may receive an email from President Turpin asking you to complete the employment equity survey. Please assist UVic in meeting our equity goals by completing and returning this federally mandated online survey. If you would like to receive it in an alternative format, contact 250-721-8488 or eqhr@uvic.ca.

PUBLIC LECTURE

Feminist economist asks "What is progress?"

Dr. Marilyn Waring, internationally renowned human rights activist, lecturer and author, will deliver a free public lecture entitled "What Does Progress Mean for our Society and our Communities?" on April 14 at 7 p.m. in Bob Wright B150. A professor of public policy at Auckland University of Technology, Waring is well known for her book *If Women Counted: A New Feminist Economics*. More: http://www.bcics.org/

UNIVERSITY GOVERNANCE

Chancellor reappointed

UVic's Board of Governors has reappointed UVic Chancellor Murray Farmer to a second three-year term as the university's titular head. The reappointment is effective January 1, 2012, and concludes Dec. 31, 2014. Story, p.3

RING FORUM

What's the most important issue in the federal election?

What's the key issue that will most affect your vote: the economy, ethics in politics, supporting families? Maybe even funding for post-secondary education? To add your voice, visit The Ring Forum: *ring. uvic.ca*



Dr. Mairi Best, associate director of science, NEPTUNE Canada, with earthquake and tsunami data. PHOTO: UVIC PHOTO SERVICES

9 HOURS

TIME AFTER
THE SENDAI
EARTHQUAKE
THAT NEPTUNE
SENSORS ON THE
SEAFLOOR FIRST
REGISTERED
THE TSUNAMI
PASSING
OVERHEAD

UVic's ocean observatory helps BC prepare for The Big One

BY KRISTA ZALA

When the 9.0 earthquake struck Japan on March 11, UVic's world-leading marine observatory helped BC residents know what to expect when the tsunami hit our shores. Now, scientists are using the data to improve our understanding of how earthquakes near and far affect the BC coast.

Sensors on the NEPTUNE Canada ocean network—part of UVic's Ocean Networks Canada (ONC) Observatory—detected the earthquake and tsunami as it swept toward BC. Because the measurements are available in real-time, details about the tsunami size and speed were online moments after each observatory site measured them.

Scientists at Fisheries and Oceans

Canada (DFO) are using the data to get a better picture of how future tsunamis will affect each bay and inlet up and down the BC coast. DFO advises Emergency Management BC, which is responsible for issuing warnings to BC's coastal communities.

"We know we'll get our big quake anywhere from one to 400 years from now," says Dr. Richard Dewey, associate director of research at the observatory's VENUS network. The tectonic plates off BC have a subduction zone similar to the coast of Japan, and the violent rebound of a major quake will be the problem. "The kind of earthquake we'll get, like the one in Japan, is particularly effective at generating large tsunamis."

Most people on the coast are familiar

with the risk that a tsunami may follow an earthquake. But each fjord, cove and point has a unique shape, and each tsunami has its own features like origin, speed, size and direction, so every massive wave acts differently in each case.

Knowing how various kinds of tsunamis affect parts of our coast prepares British Columbians for how to respond when one happens, and it helps determine the materials, size and location of new construction for everything from schools to tsunami walls.

The ONC observatory has two networks: the NEPTUNE Canada regional network and the VENUS coastal network. Each added different pieces to the picture.

SEE ONC P.8

THE EARTH MOVED AND SHOOK US ALL

UVic Japanese students organize and respond with support

BY CHRISTINE McLAREN

The waters have receded and the tremors have diminished in Japan, but amidst unstable nuclear reactors and the rubble of a starkly redefined land-scape, communities begin to face the challenge of rebuilding and coping with the loss. Here at UVic, separated by an ocean of uncertainty, we watch and wait, wondering how this disaster will affect us all.

For two Japanese students in the School of Child and Youth Care, watching was not enough.

With support from the Office of International Affairs and the school, undergraduate students Keiichi Otani and Hiroko Ota have formed the UVic Support Japan Committee. They have organized a regularly scheduled "conversation lounge" for students and faculty, offering peer support in

the Japanese language and a space for planning responses to the crisis. Graduate student Nozomi Kido from the school and visiting clinical psychologist and counsellor Dr. Haruki Miyakawa from Tezukayama University in Japan are also offering their assistance.

The space, located in the Human and Social Development Building room B141, will remain open every Friday (10 a.m. to 3 p.m.) and Saturday (10 a.m. to 1 p.m.) until further notice. Organizers are also seeking other venues to ensure that opportunities to provide group support are continuous and available as often as possible.

Otani, from Kanazawa city in mainland Japan, felt compelled to set up the support system at UVic. "Many people came forward and wanted to extend a helping hand to Japan and the students around me," says Otani. "We have received tremendous

support from students and faculty and the Office of International Affairs."

The anxiety of being so far from home with incomplete access to information added to the feelings of helplessness. Connecting with people was paramount to Ota, and with the help of a friend she set up an event page on Facebook that provided opportunities for conversation and support.

"The Facebook page helped get the word out and reach as many people as possible about our events and activities," says Ota, whose family is from Kobe, Okinawa and Yokohama.

Otani has been touched by the growing number of supportive initiatives taking place on campus. Art and silent auctions, bake sales and fundraising

SEE JAPAN P.3

ringers

UVic Chief Information Officer Mark Roman has been appointed President and CEO of CANARIE, Canada's Advanced Research and Innovation Network, effective April 25. CANARIE manages an ultra high-speed network that facilitates leading-edge research and big science across Canada and around the world. At UVic, Roman has led the IT strategy to support the infrastructure of UVic's Ocean Networks Canada (ONC) Observatory and the experimental data sent from the Large Hadron Collider at CERN to the NRC Herzberg Institute of Astrophysics. He has served as chair of the board of BCNET, CANARIE's advanced network partner in BC. More: www.canarie. ca/en/home

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CELEBRATING THE END OF THE RENOS

On March 30 members of the UVic community enjoyed cake and cupcakes in celebration of the successful completion of the Knowledge Infrastructure Program (KIP) renovations.

"We want to thank the campus community, especially the building occupants, for their patience and support during these major renovations," said Tom Smith, executive director of Facilities Management. "We're very happy to have brought the project in on time and on budget. Faculty, students, staff and researchers can look forward to enjoying the building improvements for a long time to come."

Supported by \$42.5 million from the Canada-British Columbia Knowledge Infrastructure Program, Facilities Management staff coordinated the upgrades to six of UVic's oldest buildings—Clearihue, Cornett, Cunningham, Elliott, MacLaurin and University Centre—between April 2009 and March 2011. The improvements extend the building lifespans, while improving safety and energy efficiency and increasing accessibility.



The project involved 125 companies and positively affected over 1,300 local jobs. The upgrades are expected to result in projected annual energy savings of \$180,000.

Celebrating the end of the biggest renovation in the university's history are (L-R): Director of Capital Development David Perry, Vice-President Finance and Operations Gayle Gorrill, Dean of Science Rob Lipson, President David Turpin, Associate Director of Capital Development Dino Valeri and KIP Project Manager Gord Shirley. PHOTO: UVIC PHOTO SERVICES

UVic receives feedback on non-academic student misconduct policy

The university has recently conducted consultations seeking feedback on a new policy on non-academic student misconduct. If the proposed policy receives widespread support, the university hopes to implement it before classes start in the fall.

"We're one of the few universities in Canada without a policy clearly outlining acceptable standards of student behavior," says Associate Vice-President of Student Affairs Jim Dunsdon. "Through this policy we hope to clarify what constitutes non-academic student misconduct and set out processes for submitting, investigating and responding to misconduct allegations. The policy also contains a process to appeal any decision made under it."

The proposed policy was developed through extensive consultation with campus student groups and the academic community. Further feedback was sought through meetings with UVic Students' Society clubs and course unions and with the UVSS board, and via a survey on the University Secretary's website.

The policy is intended to cover

student misconduct that occurs on the university's property or in connection with a university activity such as: theft, vandalism or tampering with emergency equipment; unauthorized entry or presence; health and safety endangerment; illegal alcohol and drug use; weapons possession or use; and obstruction or disruption of a university activity.

"All students are entitled to due process and we do not currently have a policy in place that ensures this happens on all occasions," says Dunsdon. "The policy is not intended to penalize peaceful protest or to impinge in any way on freedom of speech. The policy is intended to provide a mechanism through which improper conduct can be identified, reported and addressed."

The proposed policy will not govern academic integrity or academic appeals, nor will it apply to student conduct outside of the university's property unless the conduct occurs as part of a university activity.

The draft policy is available on the University Secretary website at www.uvic.ca/universitysecretary/policies/news.

UVic's balanced budget framework provides boosts in key areas

The University of Victoria's Board of Governors has approved a balanced 2011/12 budget framework that preserves funding in key areas such as student financial aid and library acquisitions while reducing expenditures in other areas. The 2011/12 budget framework is based on an operating budget of over \$300 million supported primarily through the provincial government operating grant, student fees and other funding sources.

This is the first time in many years that the budget does not include incremental provincial funding to support undergraduate or graduate student growth.

"This budget reflects the changing financial environment, which is likely to constrain our ability to make incremental investments as well as limit our future financial flexibility," says UVic President David Turpin. "Nevertheless, the plans in place do allow us to move ahead confidently to achieve the objectives of our strategic plan. While we have made modest cuts in some areas, we are maintaining our commitment to increased student financial assistance and focusing on efforts to secure the support our

teaching and research requires."

The budget framework includes \$1 million in one-time funding to support student financial aid at both the undergraduate and graduate levels. With student recruitment and retention a continuing focus of the university's strategic plan, funding will continue for programs that support students academically and developmentally such as English language, writing and math assistance. The framework includes UVic and provincial funding to ensure the continuation of the LE, NONET program, UVic's national, ground-breaking program to support the post-secondary success of Aboriginal students.

As in previous years, and consistent with Ministry of Advanced Education policy, the framework contains a 2-per-cent increase in tuition fees. This brings annual domestic arts and science undergraduate tuition to \$4,862 from \$4,766. Domestic graduate annual tuition rises to \$5,049 from \$4,950 effective May 1, 2011.

The 2011/12 budget framework has been developed as part of a three-year planning cycle that continues until 2013/14. Access the complete document at http://web.uvic.ca/vpfin



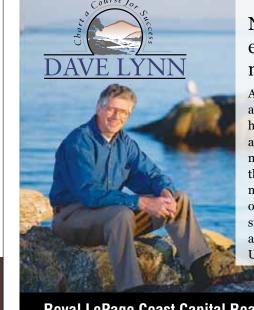
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Mobilizing the knowledge of students and faculty members

UVic's industry liaison office is changing its name, reflecting the evolution of its role.

As of April 15, the Innovation and Development Corporation (IDC) will be known as UVic Industry Partnerships (UIP).

"This change reflects an evolution in the role and focus of IDC towards creating opportunities for our students and faculty; opportunities that will mobilize their specialized knowledge for the benefit of the province and Canada," says Dr. Howard Brunt, UVic's vicepresident research and chair of the IDC Board of Directors.

The name change is the culmination of a strategic renewal process that began three years ago under the leadership of the IDC Board and Brent Sternig, IDC's president and CEO.

'The new name more accurately reflects what we do," says Sternig. "UVic Industry Partnerships is a key point of contact for industry and government with UVic's talented researchers. As such, we actively promote innovation and high-quality research at UVic. We also help researchers connect with industry so that they can access the many benefits of collaboration such as additional funding sources, access to new or additional industrial equipment, and the opportunity to obtain feedback from the marketplace."

Since 1992, the office has been linking UVic researchers and students with industry, government and community, transforming great ideas into commercially viable businesses. As of March 31, 2010, it had filed more than 340 national and international patent applications, helped incorporate more than 50 university spin-off companies and received more than 670 invention disclosures. In recent years, the office has shifted its focus to work with and assist the Office of Research Services in supporting the more than 350 research contracts the university enters into on an annual basis.

"We still offer many of the same services to faculty, staff and students, so recent clients will not notice a lot of changes," says Sternig. "However, those who have not worked with us in a few years will see a marked change in ideology. We are working more closely with researchers to take a holistic view of how intellectual property can be used to benefit all the stakeholders in a research ecosystem."

For more information about UVic Industry Partnerships visit http://industry.uvic.ca after April



Child and Youth Care students (L—R): Nozomi Kido, Keiichi Otani and Hiroko Ota at the Support Japan table outside the UVic Library. PHOTO: CHRISTINE MCLAREN

JAPAN CONTINUED FROM P.1

activities have been sponsored by the School of Social Work, Department of Pacific and Asian Studies, Office of Community Based Research, and the Faculty of Human and Social Development; and many students whose home countries have been impacted by recent earthquakes have come forward with support.

With calm determination, the students are helping to shed light on the strength of their nation, rebuilding in the face of uncertainty. As the world witnesses those efforts, we can appreciate the comment from graduate

student Kido who says, "I believe that Japan will overcome this difficult time. I just know it."

The committee is hosting an event on Friday, April 15, at the Vertigo Lounge in the Student Union Building from 3 to 8 p.m. There will be performances, Japanese food and information about supporting the relief efforts in Japan at this family-friendly event.

To keep up to date on the work of this student committee join their Pray for Japan page on Facebook or contact the committee at u.vic.prayforjapan@ gmail.com.

ringers

Dr. Martin Byung-Guk Jun (mechanical engineering) is being recognized by the Society of Manufacturing Engineers (SME) for his "exemplary contributions and achievements in the manufacturing industry." He is one of 12 engineers under 35 years of age receiving the SME's 2011 Outstanding Young Manufacturing Engineer Award, and the only recipient who is working for a Canadian university. Jun is the founder of UVic's Laboratory for Advanced Multi-Scale Manufacturing. He is currently working on a number of projects related to micromachining, nanoparticle spray coating, sustainable metalworking fluid application systems, microscale probing systems, and manufacturing of biomedical scaffolds for growing bone implants. More info: www.me.uvic. ca/faculty/mjun.html and www. engr.uvic.ca/~lamm

Professor Ted L. McDorman (law), an expert in international law and ocean law, has been seconded to the Legal Bureau of the Department of Foreign Affairs and International Trade (DFAIT). McDorman will start his assignment in May 2011. He will be based at DFAIT headquarters in Ottawa and will work primarily on Arctic-related matters.

UVic PhD student (history) Sylvia Olsen and former MA (history) student Robert "Lucky" Budd are in the running for BC Book Prizes. Olson is a nominee for the Roderick Haig-Brown Regional Prize for Working with Wool: A Coast Salish Legacy and the Cowichan Sweater (Sono Nis Press), an elaboration on her UVic thesis on Coast Salish knitters. The award recognizes the author(s) of the book that contributes most to the enjoyment and understanding of BC. Budd is a contender for the Duthie Booksellers' Choice Award for his book, Voices of British Columbia: Stories from Our Frontier (Douglas & McIntyre) that was developed from his UVic thesis. The award is presented to the originating publisher and author(s) of the best book in terms of public appeal, initiative, design, production and content. The winners will be announced on April 21. Details: www.bcbookprizes.ca/winners/2011

UVic undergrad Carmen Smith (biology, earth and ocean sciences) and master's student Maeva Gauthier (earth and ocean sciences) have won third place in the TD Friends of the Environment Foundation TD Go Green Challenge video contest for their video "Aquaponics: Back to the Future" [http://bit.ly/dYLBHm]. They were up against 132 teams from 59 Canadian post-secondary schools offering solutions to sustainability issues on campus. They will receive a \$10,000 prize and UVic will receive a \$10,000 grant to support on-campus tree planting. Their video proposed a pilot project in aquaponics, a combination of aquaculture and hydroponics.

Murray Farmer reappointed chancellor

UVic's Board of Governors has reappointed UVic Chancellor Murray Farmer to a second three-year term as the university's titular head. Farmer was first elected chancellor in 2008 for an initial term that concludes on Dec. 31, 2011. The reappointment is effective January 1, 2012 and concludes Dec. 31, 2014.

"I'm honoured to be asked to continue to serve," says Farmer. "As an alumnus who first arrived at UVic the year it became a university, it's been amazing to watch UVic become the outstanding university it is today. It's very gratifying to have the trust of the university community in my current role. As far as I'm concerned, this is the best volunteer job in the country, largely because of the quality of the people at UVic. It's wonderful to be able to represent UVic in the community in which I have spent my whole life and which has been so good to me. I look forward very much to my second term and to serving UVic as Chancellor during its 50th anniversary year."

The reappointment was made possible through a change in the province's University Act permitting a university's board of governors to appoint a chancellor upon nomination by a university's alumni association,



Farmer PHOTO: UVIC PHOTO SERVICES

after consultation with the university senate. Prior to this change, chancellors were elected to the position.

"The Alumni Association was very pleased to nominate Murray Farmer for another term as chancellor," says UVic Alumni Association President Glenda Wyatt. "We are so privileged to have an alumnus of the university as our chancellor. He is a great ambassador for the university and an enthusiastic supporter of the Alumni Association. We are looking forward to his upcoming term."

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ringers

Rare research materials created by the late UVic linguistics professor Geoffrey O'Grady are now part of the Smithsonian's National Anthropological Archives, where they will be available to future generations of scholars. O'Grady, who died in December 2008, taught at UVic for nearly 30 years and was a pioneer and leading scholar in Australian Aboriginal languages. The collection includes more than 100 tapes of Australian and North American Native languages and much hand-written material. The collection is currently conserved, waiting to be digitized and properly catalogued. Details: http://bit.ly/ i7nlvG

The UVic Vikes presented their major awards and honoured three new inductees into the UVic Sports Hall of Fame March 24. Women's field hockey player **Perri Espeseth** won the President's Cup, awarded to a student-athlete in their fourth or fifth year who best combines scholastic achievement and athletic ability. Male and female athletes of the year were: men's rugby player Phil Mack and golfer Anne Balser. **Greg Streppel** (swimming), **Eric** Hinrichsen (basketball) and the 1970/71 men's rugby team were inducted into the UVic Sports Hall of Fame. **Darren Mazzei** (cross country and track) received the Chancellor's Award, presented to a student-athlete who is an outstanding contributor to his or her team both in and out of the competition venue. The Robert T. Wallace Shield recognizing the outstanding female and male student-athlete in his or her first year of competition in intercollegiate sports went to Jaclyn Sawicki (women's soccer) and **Dustin Dobravsky** (men's rugby). Jane Anholt (women's basketball) received the Provost Award, for a returning studentathlete with the highest academic average in the previous year. Mike Holmes (rugby) received the Times Colonist Publisher's Award for Community Contributors for individuals within the community who have made an outstanding volunteer contribution to a varsity

Department of Writing chair Bill **Gaston** has adapted his 2002 Giller Prize-nominated short story "Mount Appetite" for the stage, in partnership with his wife, fellow novelist Dede Crane. The solo show Mount Appetite was recently presented as a staged reading at the Belfry Theatre's annual Spark Festival.

program. More: http://bit.ly/fp4qXf



Globe and Mail editor-in-chief visits student



BY GEMMA KARSTENS-SMITH, **EDITOR-IN-CHIEF, THE MARTLET**

As young journalists we often hear that we're stepping out into an industry that is rapidly changing, perhaps even dving.

Sometimes, however, the outlook we receive is a little bit sunnier, as was the case when John Stackhouse, editor-in-chief for the Globe and Mail, visited the Martlet on March 31. The visit was one of the prizes *Mart*let writer Karolina Karas received from winning the Globe's Student

Newspaper Challenge last fall with her piece "Reason for gender gap in universities debated" [http://bit. ly/ggtcQP].

"I believe journalism still matters-quality journalism-and always will," Stackhouse told us.

"It's interesting to see how there's still response to media pressure ... when we do things credibly—rooted in good reporting-things change."

Stackhouse spent the afternoon with us, answering our questions about the strengths and weaknesses of the industry, what the Globe is doing to keep up and move forward, and what we, as young journalists, can do for ourselves and media in general.

He encouraged us to look at change as opportunity, and embrace the strengths of all kinds of media. The digital world allows for speed, interaction and multimedia, Stackhouse said, calling the platform a "running river."

"You never step in the same river

However, print is not dead, he emphasized. It still gives readers room for pause and has the ability to make visuals pop.

L—R: Stackhouse, Karstens-Smith, and Karas. PHOTO: UVIC PHOTO SERVICES

"It's like a freeze frame. It allows reflection."

Stackhouse encouraged us as young journalists to hone our skills and keep asking questions. He told us to find good editors and learn everything we possibly can from them. He reminded us that our job is to tell the story and to stay true to that, no matter what.

"Report, report," he said. "Facts do prevail. Sometimes it takes longer, but facts do prevail."



BY CRYSTAL BERGERON

What do you get when you combine a handful of enthusiastic UVic music education students, 65 talented middle-school students and a few dedicated professional musical clinicians and performers? Sweet, "suite" music, of course.

Music education students from the UVic Student Music Educators' Association (UVSMEA) successfully organized, "Music Discoveries 2011," a three-day music camp for middleschool band and choir students from the three local school districts, Victoria, Saanich and Sooke, Feb. 11-13.

The event started in 2008 to enable young musicians to come together and enhance their musical skills in an enjoyable yet educational way under the tutelage of music students in UVic's Music Education program.

"In addition to giving the middleschool students a much-valued experience, the camp gave us [UVic students] a chance to practice our teaching skills as well as learn about the demands of planning and carrying out a full scale music event," says Nathan Jacklin, UVSMEA president.

Dr. Mary Kennedy, associate professor of music education, agrees. "This event gave our pre-service music educators an opportunity to do all that music teachers need to do. Teaching music involves so much more than just the 'face to face' interaction that occurs in the classroom. Music teachers need to be superb administrators, planners and organizers too. They



Middle-school students perform a musical theatre piece during Music Discoveries 2011. PHOTO: ASTRID SIDAWAY-WOLF

regularly handle large budgets, plan trips, organize festivals and interact with parents on an ongoing basis. Music Discoveries is a perfect example of real experiential learning."

"The weekend was also a wonderful opportunity to further connections between the Music Education Program and the wider community and build on the strong partnerships that already exist between UVic Music Education and our three local school districts," adds Kennedy.

The young protégés were exposed to professionals on their instrument or voice and were encouraged to explore a number of music electives including African drumming, musical theatre and improvisation. In addition, they attended a UVic Wind Symphony Concert, watched a performance by Rhapsody Belle, a local a cappella vocal ensemble, participated in large-ensemble rehearsals, sectional master classes in technique and gave a final concert in the Phillip T. Young Recital Hall which showcased their impressive talents to a full house of family and friends.

Associate Dean of Teacher Education Dr. Alison Preece couldn't be more pleased with the great sense of pride and community engagement exhibited by the pre-service music teachers. "I applaud the music education students for the warm and personally engaging ways they have helped this talented group of middle schoolers bring their musical talents to life and showcase them."

In 2010, Music Discoveries had 20 participants. This year the number of participants more than tripled and added a choir component. Plans for 2012 include adding a strings group so that all three major musical groups (choir, band and strings) from the local districts will be well represented. More information: www.uvsmea.ca



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Writing instructor's new novel focuses on post-earthquake Victoria

BY JOHN THRELFALL

The Big One has hit the West Coast and the earthquake damage to Victoria is far worse than anyone expected: the city has been devastated, families torn apart and the survivors left wandering through a dystopic hell on Earth. Such is the setting for Into That Darkness (Thomas Allen & Son), the first novel by award-winning UVic writing instructor Steven Price.

Coming on the heels of the recent earthquakes in Japan and New Zealand, not to mention the Great British Columbia ShakeOut disaster drill, Price's Into That Darkness is very much a story for our age of anxiety—one that reflects back to us our deepest fears and strongest hopes in the face of impossible odds.

But the novel's roots actually stretch back to another moment of urban horror, the September 11 attacks in New York City. "I was in grad school in Virginia when 9/11 struck, and the sudden proximity of the disaster and the shift from a peaceable society to a society under siege left its impact," says Price, who then began considering what kind of devastation could be visited on his home in Victoria.

Price's debut volume of poetry-2006's Anatomy of Keys, a book-length poem about Harry Houdini—earned him a Gerald Lampert Award, a spot on the BC Book Prizes shortlist and a nod as one of the Globe and Mail's top-100 books of 2006, but it was the disasters of the early 21st century that fuelled the creation of *Into That* Darkness. "From the tsunami in Southeast Asia, to the earthquakes in Turkey, China, Haiti and New Zealand, to the eruptions in Iceland and the horror of Hurricane Katrina—it was all echoing in the background while I was writing this book."

But like in many novels hinging on disasters (Nevil Shute's On The Beach, say, or Stephen King's *The Stand*), the fictional set-up, Price feels, simply allows him the freedom to explore his characters. "This novel, though about many things, holds as one of its central concerns the



Price. PHOTO: ESI EDUGYAN

problem of natural evil—why bad things happen to good people—so the earthquake is really just one of the characters."

Given that Into That Darkness was completed well before last month's earthquake, how does he feel about releasing it the same month as the recent devastation in Japan? "People over there are suffering so terribly; I couldn't possibly draw any links between my novel and that tragedy. But I think the natural inclination, living in an earthquake zone as we do here on the coast, is to wonder just what would happen if such a disaster struck us here—which is, to an extent, what the novel asks."

With that in mind, does the author have an earthquake kit ready? "Yes, although a poor one. I'm as guilty as anyone of understanding what it means to live in an earthquake zone without really comprehending it."

And while Price has never lived through a major disaster himself, he does have childhood memories of staring at downtown Victoria through the window of his home overlooking Esquimalt Lagoon. "My father liked to say, 'You know, son, when The Big One hits, all of this will slide down into the sea. I'd look out at the water and try to imagine the city like that. It left an impression."

Into That Darkness— Could it happen here?

BY DAPHNE DONALDSON MANAGER, UVIC EMERGENCY PLANNING

Timing is everything. Considering the recent devastating earthquakes in New Zealand and Japan, there is an eerie sense of reality with Steven Price's new book, Into That Darkness. An 8.7 earthquake occurring in Victoria now seems much more believable. The horrific images of destruction in two well-prepared countries struggling with seismic disaster are becoming harder to ignore. Many people on campus are asking about how to be better prepared. For some, it's improving their existing kits and plans; for others, it's time to start. Here are some ideas:

- Purchase or put together a kit for each member of your family (including pets)
- Make sure you have food and water for at least three
- Develop a family plan including an out-of-town contact in case you become separated
- Consider having items at work and in your car, as well as at home
- Expect many aftershocks
- Take a first aid course and have medical supplies
- Keep cash on hand
- Consult with neighbours about how you might help
- Go to http://ohs.uvic.ca/ and click on Emergency Management for more tips

As a society, we've become dependent on others for ready sources of food, water, and medical help. As Steven Price's book graphically illustrates, during a disaster, help will not be immediately available—we'll have to fend for ourselves. We need to be prepared for at least three days—a week is preferable. It can happen here, it will happen here—it's a matter of timing.

Humanitarian award to Paralympian law student

BY GRAHAM MILES

UVic Law student, wheelchair athlete and community volunteer Jessica Vliegenhart is this year's recipient of the Ann Roberts Humanitarian Award. Co-sponsored by the Faculty of Law and the Victoria Bar Association, it acknowledges her outstanding and selfless contribution of time and effort to the well-being of the law school, individuals within the school, and people in the community at large.

Vliegenhart keeps an active schedule as a public speaker for WorkSafeBC, a Canadian Paralympic athlete and a volunteer within her community.

In 2004, Vliegenhart sustained a spinal cord injury while working as a forest firefighter in the Northwest Territories. Undoing her seatbelt for just a moment to reach for an object in the back of the truck she was riding in cost her the use of both legs when the driver lost control of the vehicle and plunged off the road.

Since then, she has had to come to terms with the changes caused by her paralysis. She refuses, however, to let it stop her from doing the most she can with her life.

"It's everything you think it is," Vliegenhart says of the challenges she faced in adapting to her new lifestyle. "It's disastrous. A solid two years of your life gone; one year spent in hospital. It's like, that's your house—I'm in room 402, come buzz me!" she laughs. "And then when you get out, you're in



Vliegenhart. PHOTO: UVIC PHOTO SERVICES

a wheelchair. Suddenly you're supervisible, and it felt really invasive at first."

Still, Vliegenhart says she's figured out how to make the best of the attention she's received. "Coming out of the hospital, I realized that the world was not, in fact, accessible," she says. "And attitudes towards people with disabilities were very different from what I expected them to be."

Vliegenhart says that it was this realization that inspired her to start working on behalf of persons with disabilities, and it continues to spur her on today. "I don't have time for self-pity," she says, "because there's so much work to be done, and because I have the energy to do it. I don't want people to come up against the same barriers that I've come up against."

Vliegenhart is a part of the Work-SafeBC Paralympic Heroes program, which involves traveling across the province with other Paralympic athletes and speaking with students and the public about her experiences. On April 28, for example, she will be speaking in Duncan, Parksville and Nanaimo at memorial events for the National Day of Mourning, remembering workers injured or killed in the workplace.

She's also active in the Faculty of Law as the equity representative for the Law Students' Society and founder of LawAbility, a group for law students with disabilities. "I noticed a number of students with disabilities [this year]," she says, "more than we've had in the past, and I thought: 'We've reached critical mass."

Vliegenhart is featured in a 2010 WorkSafeBC film about her injury, rehabilitation, and subsequent return to university and athletics. The film can be viewed here: http://bit.ly/g3HZPb

around the ring

Strategic plan renewal process update

Since January, the University of Victoria has been engaged in a process to renew its strategic plan in order to determine the future direction of the university. The Planning and Priorities Committee, which leads this process, has held extensive consultations with the campus and external communities and received a great deal of input in person, by email, mail and via the web. Over the next few months. the committee will be concluding its consultations and beginning to digest the input received. Work on a revised draft plan will take place over the summer, and committee members will reconvene in the fall to review a draft. Following any final revisions, the revised plan will be presented to the Senate and Board of Governors early in 2012. More info, including background documents associated with the consultation process: web.uvic.ca/ strategicreview/

Queenswood property rezoning application

The rezoning application for UVic's Queenswood property was submitted to the District of Saanich on March 29. The university is seeking a rezoning designation that can over time accommodate a range of possible institutional needs from office and teaching space to research facilities and other related uses. Based on public input from four months of community discussion, UVic undertook some modifications to the draft zone parameters and those adjustments were included in the submission to the District of Saanich. The university continues to welcome further feedback. Visit the website for more details and a PDF copy of the application: www.uvic. ca/queenswood

All UVic staff welcome at ConnectU

Connect U is a new professional development opportunity for UVic staff, taking place June 1 and 2 in the Cadboro Commons Building. The conference will feature a wide range of presentations promoting skill development, knowledge transfer and workplace efficiency, plus networking opportunities with other staff. Choose one program track or mix and match:

- Develop U: Build essential professional skills for working at UVic
- Leader in U: Strengthen your leadership skills
- Navigate U: Learn about UVic's structure and governance, research, projects and programs
- Navigate Us: Get to know UVic through never-before-offered guided tours

Free and open to all UVic staff.

Details: www.uvic.ca/connectu. Registration opens on April 15. More info: connectu@uvic.ca

ringers

Iconic retired UVic Visual Arts faculty member Mowry Baden was profiled in the Winter 2010/2011 issue of Canadian Art magazine. In the six-page piece titled "The Great One," writer Ann Ireland quotes Baden saying, "Teaching is listening. It starts with the student's vision . . . somewhere in that vision is the pathway to a deeper and more complex expression."The Governor General's Award-winning Baden, who spent 22 years at UVic, notes that "patience, perseverance and curiosity" cannot be taught, "because these features are in the bloodstream of the creature that stands in front of you—or not. If they can't hold focus, you can't implant it."

Blue Bridge Repertory Theatre, helmed by Department of Theatre professor Brian Richmond, was just named one of the "Top Ten to Watch" in *Douglas* magazine's annual round-up of new Victoria businesses. Since its inception in 2008, Blue Bridge has consistently mounted awardwinning professional productions of theatrical classics like *Death* of a Salesman and A Streetcar Named Desire at the McPherson Playhouse. Not only have they breathed fresh life into the Mac's usually quiet summer season, but Blue Bridge consistently hires UVic faculty, alumni and students for their productions. See http:// bluebridgetheatre.ca for details about their 2011 season.

Nursing students take caring to new heights

School of Nursing helps with the RJH Patient Care Centre Tower move

BY ROBBYN LANNING

On Sunday, March 13, over 200 UVic Nursing "Students on the Move" helped transfer nearly 300 patients from the Royal Jubilee Hospital's old inpatient units to its new Patient Care Centre (PCC) Tower in just under eight hours.

Teams of nursing undergrads volunteered their time, working four- and six-hour shifts, to help Vancouver Island Health Authority (VIHA) staff receive patients relocating from the old hospital. With patients being moved to the PCC at the staggering rate of one every two minutes, the students created a buddy system, providing the essential service of orienting patients to their new surroundings one-on-one. Dr. Lynn Stevenson, VIHA executive vice-president of people, organizational development, practice and chief nurse, witnessed "the enormous contribution the students made to helping the patients settle in to their new environment. [The students] provided a wonderful safety valve for the receiving RNs who would not have had the time to just be with the patients as they were very busy taking report on each new patient as he or she arrived." Third-year nursing student and Students on the Move (SOTM) team leader Christine Lockhart was pleased to help coordinate student participation in the event. "It's all about collaboration and partnerships," says Lockhart. "I'm proud to be part of a student body where so many people cared enough to be there that day."

Natalie Tran, third-year nursing student and SOTM team leader, de-



Jumana Tubeishat (SOTM Team Leader) shows Carolyn Hammond (nursing instructor and practicum coordinator) how to use a "smart bed." Patients can use the beds to call for a nurse when they need help. PHOTO: ROBBYN LANNING

scribed a round of applause given to the first wave of student helpers by the PCC nursing staff. Tran observed that participation in the move was a way for students to give back to nurses who serve as preceptors during student practicum placements.

The PCC is a building where research manifests into real-world practice. The building is a departure from the older hospital as it emphasizes the human side of care, rather than focusing on the diagnoses and treatment of diseases—activities that now take place in an adjacent building. Simple changes to room design, such as configuring bed placement so that

patients' faces—rather than feet—are visible at a glance, allow nurses to assess patients both more efficiently and personally.

Over 80 per cent of the rooms in the PCC house single beds, each equipped with its own adjoining toilet and washing facility. Rooms are designed so that patients can rest in privacy while friends and family are able to visit in increased comfort over extended periods of time. Sounddampening panels are used in walls and ceilings, patient rooms contain large windows to supply natural light and fresh air resulting in a comforting and less institutional atmosphere-innovations that may speed patient recovery times by as much as 20 per cent. Amber Hawkins, third-year nursing student and SOTM team leader, describes how the design promotes togetherness in healthcare. "Nursing stations have been replaced with collaboration centres where nurses, along with dieticians, physiotherapists, social workers and other health care professionals will work together in a community," says Hawkins. 'When you are a nurse, you nurse everyone; every age, background, gender-there's not just one type of nurse, and we are all part of a larger

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PUBLIC LECTURES

Retirees spark discussion with Masterminds Lectures

Learn about ethics in health care, art Dr. Bill Zuk will present "Spirit of the in the High Arctic, and the secrets of the ocean floor as UVic's 2011 Masterminds Lecture Series continues.

On April 13, NEPTUNE Canada Director Dr. Chris Barnes (professor emeritus) will speak on recent progress and results from NEPTUNE Canada—the world's first regional cabled ocean network. His lecture is entitled "Understanding the Ocean: New Approaches and Early Results from the NEPTUNE Canada Ocean

On April 20, award-winning artist and art education professor (emeritus) Arctic: New Directions in Art and Culture." His lecture will address traditional art and lifestyles and the ways the Inuit people continue to adapt and innovate in the High Arctic. $\,$

On April 27, nursing professor (emerita) and health ethicist Dr. Janet Storch will discuss the impact of cutbacks and related changes to health care and concerns with regard to patient safety in her lecture "Continuing Cuts in Health Care: Ethics and Safety Concerns in Hospital and Home Care."

Supported by the university and

co-sponsored by the Centre on Aging, the series profiles retirees who continue to contribute to both the

university and the community.

The lectures will take place every Wednesday in April at 7 p.m. in the Hickman Building, room 105. Please register by calling 250-721-6369 and plan to arrive early, as seating is limited. More info: www.uvic.ca/ masterminds

This year's Masterminds series was launched April 6 with a presentation by physical education professor (emeritus) Dr. David Docherty on "Fun, Fitness and Mental Functioning."

CAMPUS PHARMACY

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calendar highlights

Events free unless otherwise indicated. For a complete list of events, visit the online calendar at www.uvic.ca/events

at the galleries uvac.uvic.ca 250-721-6562

Exhibit Until May 2. *Centennial* Square and the Gordon Head Campus: Seminal Projects (1962—1972). Part of a series of exhibitions and publication projects that will explore the development of a regional modernist aesthetic in post-war Victoria and celebrate the 150th anniversary of the City of Victoria and 50th anniversary of the University of Victoria. Maltwood Prints and Drawings Gallery at the McPherson Library, room 027. 250-721-8298

THURSDAY, APRIL 7

- Lecture/Seminar 12:30 p.m. The Machinery of Climate Anti-Science. Silicon Valley computer scientist and technology expert Dr. John Marshey. Info: www.pics.uvic.ca. Wright Centre B150. 250-853-3678
- **Music** 8:00 p.m. *Ivan Coyote with Rae* Spoon. University Centre Farguhar Auditorium. From \$29.00 at https://tickets.uvic.ca. 250-721-8480

FRIDAY, APRIL 8

- Lecture/Seminar 11:00 a.m. Teaching the Humanities in Mexico: A Conversation with Prof. Michael Schuessler (in English). Michael K. Schuessler (Universidad Autónoma Metropolitana, Mexico City). Clearihue B415. 250-472-5455
- Lecture/Seminar 3:00 p.m. *Cognition* and Brain Science Seminars. An hour and a half

of intellectual interaction and collegiality. See http://web.uvic.ca/psyc/graduate/cabssem. php for schedule. Cornett A228.

SATURDAY, APRIL 9

Other 10:00 a.m. BC China Scholars Symposium. For more information and a program, contact Richard King (rking@uvic.ca) or Doug Thompson (capi@uvic.ca). Hickman Building 110. 250-721-8708

TUESDAY, APRIL 12

Music 7:30 p.m. Harry Manx and David Lindley. University Centre Farquhar Auditorium. Tickets \$32.25 plus service charges. https:// tickets.uvic.ca/

WEDNESDAY, APRIL 13

- Masterminds Lecture 7:00 p.m. Understanding the Oceans: New Approaches and Early Results from NEPTUNE Canada. Dr. Chris Barnes (UVic). Hickman Building 105. Contact the Centre on Aging to register: 250-721-6369
- **Music** 7:00 p.m. *Arbutus Night of Music.* Ecole Arbutus Global Middle School. University Centre Farguhar Auditorium. \$10. https:// tickets.uvic.ca/
- Other 8:00 p.m. And April 20th. Astronomy Open House. More info: http://astrowww. phys.uvic.ca/events/. Wright Centre 5th Floor Observatory. 250-721-7700

THURSDAY, APRIL 14

Lecture/Seminar 1:00 p.m. Life in the Middle in Today's Middle East. Rev. Dr. Kamal Farah. More info: Rev. Henri Lock (250-472-4159 or hlock@uvic.ca). University Centre A180 Senate Chambers. 250-721-8338

Lecture 7:00 p.m. What Does Progress Mean for our Society and our Communities? Dr. Marilyn Waring (Auckland Univ. of Technology), internationally renowned human rights activist, lecturer and author of If Women Counted: A New Feminist Economics. Wright Centre B150. http://www.bcics.org/ 250-472-4539

FRIDAY, APRIL 15

- Lecture/Seminar 3:00 p.m. Cognition and Brain Science Seminars. An hour and a half of intellectual interaction and collegiality. See http://web.uvic.ca/psyc/graduate/cabssem. php for schedule. Cornett A228.
- Music 8:00 p.m. Classic Albums Live— Dark Side of the Moon. University Centre Farquhar Auditorium. From \$29.00. https:// tickets.uvic.ca/

SUNDAY, APRIL 17

- Music 10:00 a.m. Inside Opera with Robert Holliston. An in-depth presentation and discussion of Pacific Opera Victoria's production of Vanessa. Space is limited and reservations are required. Contact 250-382-1641 or rsvp@pov.bc.ca to reserve. MacLaurin B125. 250-721-8634
- **Music** 2:30 p.m. *Symphonic Celebration* — Greater Victoria Youth Orchestra. Yariv Aloni, music director and conductor. University Centre Farquhar Auditorium. https://tickets.
- Other 7:00 p.m. Through Apr. 21. GVPAF Studio Dance Sessions. Part of the Greater Victoria Performing Art Festival. Info: www. gvpaf.org. University Centre Farquhar Auditorium. Tickets \$3-\$5; Family Pass \$10. https:// tickets.uvic.ca/

TUESDAY, APRIL 19

Lecture/Seminar 6:30 p.m. Cafe Scientifique—"Genetics Research and Community Collaboration: Examples from First Nations and Inuit Populations" by Dr. Laura Arbour. Hosted by the Centre for Biomedical Research. Strathcona Hotel, 919 Douglas Street, Maple Room. 250-472-4067

WEDNESDAY, APRIL 20

- Lecture/Seminar 5:30 p.m. Environmental Suffering and Poor People's Waiting. Javier Auyero (Univ. of Texas, Austin). David Strong Building C122. 250-721-7046
- Masterminds Lecture 7:00 p.m. Spirit of the Arctic: New Directions in Art and Culture. Dr. Bill Zuk (UVic). Contact the Centre on Aging at 250-721-6369 to register. Hickman Building 105.

WEDNESDAY, APRIL 27

Masterminds Lecture 7:00 p.m. Continuing Cuts to Health Care: Ethics and Safety Concerns in Hospital and Home Care. Dr. Janet Storch (UVic). Hickman Building 105. 250-721-6369 to register.

SATURDAY, APRIL 30

Other 7:00 p.m. 20th Youth Cultural Showcase. Presented by the Shane Punjab Dance, Performing Arts and Heritage School. University Centre Farquhar Auditorium. https://tickets.uvic.ca

SUNDAY, MAY 01

Music 2:30 p.m. Victoria Symphony Orchestra Classics 5. Giuseppe Pietraroia, conductor. University Centre Farquhar Auditorium. https://tickets.uvic.ca/

around the ring

Recycle your electronics for Earth Day

Celebrate Earth Day sustainably by bringing your unwanted electronic items to UVic's free E-recycle days April 15 and 19 from 11 a.m. to 5 p.m. outside the Student Union Building (look for the tent on the grass on the south side). Students, staff and faculty members are all welcome. The following items will be accepted and do not need to be in working condition: computers and computer accessories; speakers; televisions/monitors; printers/faxes; scanners; audio and video playback/ recording systems (e.g. MP3 players, iPods), non-cellular telephones. UVic-owned equipment will not be accepted. More info: www.uvic.ca/ sustainability

Framed!

After being mentored by some of the top contemporary artists in the country, graduating visual arts students will be displaying their work at a pair of upcoming shows: Ta-Da! UVic's BFA visual arts graduates show, opens April 15, 7 to 11:30 p.m. and continues daily to April 23; *Eviction*, UVic's MFA visual arts graduates show, opens April 29, 7 to 11:30 p.m. and continues daily to May 7. Both in UVic's Visual Arts Building.



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Great UVic stories are everywhere, across campus and beyond. They're your stories, your news, your opinions. For years, *The Rina* has been UVic's community voice, sharing your stories in print and online.

And now, with the launch of our new website, we'll be sharing more of your stories than ever before.

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We're buying used texts **Starting April 4**

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We'll also be drawing for a 2nd prize of \$500 cash at the end of April. So don't forget to fill out an entry form.

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Lefebvre with some items from her family's history. PHOTO: UVIC PHOTO SERVICES

BY MARIA LIRONI

If not for a chance remark made by her father, Veronica Lefebvre might have never ended up working for UVic's Office of Indigenous Affairs.

"In 2001, when I was just 21 years old, I was part way through my undergraduate degree in anthropology at Concordia and had made it a point to focus my courses on First Nations," recalls Lefebvre. "I had a passion for First Nations cultures and history; in some ways I felt like I could relate to everything I read. It was because of this interest in First Nations culture and history that my dad just decided one day to tell me that his grandmother was Blackfoot. This was definitely an 'aha' moment for me—up until then I didn't know about my First Nations heritage, although I had always felt like there was a part of me that was missing. This helped explain that missing piece, and I realized that my passion and interest in First Nations culture and history came from my ancestors, and they were guiding me to this."

Lefebvre says she wasn't too surprised when she heard the news.

Although she is the only blue-eyedblonde on her father's side of the family, she can see the Blackfoot in her dad's features and in the faces of his relatives too.

"Once I found out, I started looking at genealogy, reviewing my dad's family tree and picking at the strings of other peoples' memories," says Lefebvre, who grew up in Montréal. She has discovered that she has Blackfoot ancestry on her mother's side as well. "I now identify as being part Blackfoot, as well as having French and English ancestry."

Lefebvre brings this newly found Blackfoot identity to her job as the assistant to the director of the Office of Indigenous Affairs (INAF). She's one of the eight members on the INAF team, helping more than 700 Indigenous students access services and programs that will help them be successful during their time at UVic.

She runs all the administration for the office, assists INAF director Fran Hunt-Jinnouchi and coordinates INAF events such as the Indigenous Recognition Ceremony that honours Indigenous graduates.

"It's the first time I've worked in

an academic setting, and I love it," remarks Lefebvre, who moved here from Newfoundland in 2007 with her husband Neil Barrett, a UVic PhD candidate in computer science. "Every day here is different. I'm involved in all of the office's projects and meet a lot of community members. I get to work for two fantastic women who can teach me a lot."

Lefebvre feels that she's not only growing professionally, but that her time at INAF is influencing her family as well.

"Yes, my job has opened up a can of worms for my family," Lefebvre jokes. "A lot of people are looking into who they are. My dad is interested in getting his status card, and I'm still trying to find out what bands or nations my Blackfoot ancestors belonged to.

"If my dad hadn't told me about my Blackfoot heritage when he did, I don't know where I'd be now," says Lefebvre. "I really don't think I can thank him enough for telling me because I love being here at UVic. Working in, and learning about, First Nations culture feels right because it is really part of me."

in memoriam

Professor Emeritus (history) Sydney Wayne ("Toby") Jackman passed peacefully in his sleep during the night of Feb. 26–7.

You couldn't miss him: angular, gangling forward over his hand-made English leather shoes; corduroy and tweed; college scarf (Clare, Cambridge, trophy of a sometime visiting fellowship); Harvard teaching gown rusty with age and dusty with chalk (no PowerPoint in his day, and he wouldn't have used it anyway); umbrella shredded by wind and rain: caricature is easy. But those were much mistaken—and there were many—who dismissed Toby Jackman as just a gadfly staging himself as a replay of Lord Peter Wimsey. True, he thought the life of the mind meant more than the strict programming of his courses down to the last quarter hour in the year, or grinding out the annual yield of specialist journal-words. And certainly he was lucky that, as one of the university's founding full professors, he did not need to concern himself unduly with all that on his own account. So no: he was not a typical latter-day academic. But that does not reduce him to courtly ornament. His dilettantism disguised a hard-headed and far-sighted practicality. Though he seldom held it directly himself, he had a shrewd grasp of the realities of executive power and an equally penetrating understanding of character. Coupled to his first-hand knowledge of Town as well as of Gown, these enabled him to serve the university in many vital ways, especially during the turbulence of its early decades.

As a teacher, he influenced generations of students far beyond the classroom. Here, his watchword was an ancient Greek proverb about how we know the world: "The Hedgehog knows one big thing; the Fox knows many little ones." He was most certainly a Fox: eclectic, always on the move, collecting as he went. So if you must cartoon him, do so as Victorian *Punch* depicted Benjamin Disraeli, aloft on a tightrope, in contrast to earthbound Mr. Gladstone below, preaching at the Queen. And remember another proverb, this one Scots: "Mony a mickle maks a muckle." Thus the one and the many converge: the space he leaves behind is bigger far than just the aggregate sum of his parts.

Submitted by Professor Emeritus John Money (history)

A more expansive version of this obituary is available on The Ring website at http://ring.uvic.ca/people/memoriam-sw-toby-jackman

ONC CONTINUED FROM P.1

NEPTUNE Canada and the tsunami

The NEPTUNE Canada regional network has five study areas stretching 300km from the coast, down the continental slope, and across the Juan de Fuca tectonic plate. Sites vary in depth: research nodes are as shallow as 20 metres in Folger Passage (in Barkley Sound between Bamfield and Ucluelet) and as deep as 2,660 metres on the abyssal plain.

NEPTUNE Canada registered both the earthquake and tsunami at all of its pressure sensors. The quake traveled fast. The seismometers felt the tremors a mere 12 minutes after it happened more than 7,000 km away, which means the pulses surged through the Pacific plate at hundreds of metres per second.

The tsunami first registered on a NEPTUNE Can-

NEPTUNE Canada node about nine hours after the earthquake struck. A tsunami travels at an extremely long wavelength and rises very little

in deep water. The 2,660 metre-deep tsunami sensor registered this one as just under 15 cm high.

OCEAN NETWORKS CANADA

In less than 10 minutes, a sensor at the node 120 km offshore recorded the wave as it passed overhead. As this node is also in water that is quite deep (1,250 metres), the wave was only a few centimetres higher.

Then, 40 minutes later, the wave arrived at a sensor near the coast between Ucluelet and Bamfield, where it had risen to 40 cm. When it hit the shore, the tsunami raised water levels by 1 metre.

"The network of tsunami sensors gives us a very precise measurement of how the waves change as they approach the coast from deep water. This in turn refines the models and helps predict behavior of big tsunamis based on information from smaller ones," says Dr. Mairi Best, the associate director of science at NEPTUNE Canada.

Scientists such as Rick Thomson and colleagues at the Institute of Ocean Sciences in Sidney, BC, use the data to test their predictions and refine their models, explains Best.

"The real-time data are being integrated into national and international tsunami warning systems, as well as refining models that help predict and plan ahead of an event," she says.

The tsunami reaches VENUS

VENUS has four study sites branching from three nodes—one in Saanich Inlet, and three at two nodes in the Strait of Georgia. When the tsunami neared Vancouver Island, part of it pushed through Juan de Fuca Strait and into the Strait of Georgia, where it reached the node in Saanich Inlet about two hours after NEPTUNE Canada sensed it. As is common with tsunamis, the sea level

in the inlet dropped first as the trough of the wave led the approach. After dropping 15 cm, it rose to about the same height and sloshed around in the inlet's basin for 12 hours.

The measurements confirmed models created by DFO that predict how long a tsunami would take to reach Saanich Inlet after entering Juan de Fuca Strait.

"This one wasn't a concern to us, but it will help us see which towns are most vulnerable to the kinds of tsunamis that are most likely to occur," says Dewey. "The question of whether to build a 3-metre or a 4-metre dyke at a town is going to make all the difference."

At a March 17 public forum at the University of Victoria on understanding and responding to the devastating earthquake and tsunami in Japan, Dr. Chris Barnes, director of the NEPTUNE Canada ocean network, presented a series of graphs, charts and images of the devastating earthquake in Japan and the subsequent tsunami's journey across the Pacific. For his presentation, visit: http://bit.ly/fw1tMr

Student creates interactive earthquake map

If you're curious about the history of earthquakes you may want to check out an interactive map created by UVic doctoral student Lars Grammel (computer science).

By using an online visualization toolkit "Choosel" that he created for his PhD research, Grammel has produced an online map that plots all of the earthquakes since 1900 in which a thousand or more people have been killed. You can view this information

by continent, magnitude, number of casualties and decade. Many of the mapped earthquakes are also linked to a Wikipedia site with photos and other details.

"After the tragic earthquake happened in Japan last month, I searched the web for information about earthquakes and came about a blog post where someone analyzed where and when those devastating earthquakes occur," Grammel explains. "The blog

post contained only pictures and text, and I thought it would be interesting to have an interactive online visualization that people could explore on their own."

To view Grammel's interactive earthquake visualization map visit: http://web.uvic.ca/~lgrammel/blog/earthquake-visualization/ (the visualization does not work in Internet Explorer).

APRIL 2011



RETIREMENT INCOME OPTIONS

Monthly Income Based on \$100,000

REGISTERED RETIREMENT INCOME FUND (RRIF)										
	AGE	55	60	65	71	75	80			
Minimum Payout *		\$238	\$278	\$333	\$615	\$654	\$729			
Total Payout to Age 100	\$1	92,562	\$174,466	\$158,462	\$141,695	\$134,947	\$125,785			
Í	come over	10 years .	\$1,812 \$982 \$707	Total 5 year payout						

LIFE ANNUITIES							
	AGE	55	60	65	71	75	80
Male							
payments cease at death10 years guaranteed		\$530 \$520	\$586 \$568	\$668 \$630	\$813 \$722	\$915 \$771	\$1,135 \$890
Female							
payments cease at death10 years guaranteed		\$489 \$485	\$529 \$522	\$584 \$570	\$691 \$651	\$794 \$715	\$983 \$833
Joint Life: 10 yrs guaranteed		\$446	\$478	\$521	\$594	\$652	\$770

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