

NEW LIFE FOR MCKINNON

BUILDING UPDATE IS MUCH MORE THAN A FACELIFT—P. 5



THE RING

JANUARY 2017

The University of Victoria's
community newspaper

ring.uvic.ca



University
of Victoria

SPEED READING

RESEARCH REELS

Your research stories—
in five minutes or less

UVic students, faculty, staff and alumni are invited to submit an entry to the inaugural Research Reels video showcase. Videos can be as short as a minute but no longer than five, and demonstrate the amazing research or creative activity taking place at UVic. A selection of videos will be screened during IdeaFest, with a top prize of \$1,250. Submission deadline is Feb. 7, so grab your camera (yes, cellphone cameras count) and get filming. bit.ly/uvicreels

SERVICE AWARDS

Nominate a colleague

Do you know UVic employees who deserve a round of applause? An individual or team working to make UVic a great place to work and learn? Nominations are now open for the President's Extraordinary Service Awards. This year's awards have been re-imagined and re-named to better reflect the spirit and energy of our people—from all areas of our campus. Nominations are open until Jan. 15. uvic.ca/pesa



Undergraduate Erinn Raftery and UVic researcher Jeff Sorensen adjust the equipment used to collect water samples in Saanich Inlet. PHOTO: UVIC PHOTO SERVICES

A world-leading ocean laboratory

Saanich Inlet research sheds new light on ocean dead zones

BY VALERIE SHORE

Oceanographers from around the world are hoping to learn more about the science of “dead zones,” thanks to a UVic-led research project currently taking place in Saanich Inlet.

Every two weeks since September, a research team on the UVic research vessel MSV *John Strickland* has been venturing into the inlet to collect water samples at various depths—roughly 300 litres per day—to measure the levels of everything from dissolved gases and trace metals to phytoplankton and microbes.

Because of the inlet's unique topography—it's a deep glacial fjord separated from adjacent waters by a shallow sill that restricts water inflow—it's widely known as a natural laboratory for studies of “anoxic” or dead zones, areas in the ocean that are devoid of oxygen and marine life. The only lifeforms that can exist there are bacteria.

“The inlet is a natural dead zone, meaning it has low to no oxygen content for most of the year,” says Jeff Sorensen, a postdoctoral researcher in the School of Earth and Ocean Sciences. “We're seeing dead zones expanding around the world, and

that changes what species are able to live there, including a lot of fish and shellfish that people depend on to eat.”

While Saanich Inlet remains anoxic for much of the year, every fall water flows in over the sill and replenishes the oxygen supply. Marine life flourishes for a few months, but wanes again as the water's oxygen content gets used up.

“In other locations where this kind of water exists there is no renewal process—there's consistent anoxic water. That's why Saanich Inlet is so perfect for study,” says

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INTERNATIONAL TEAMS INVOLVED IN SAANICH INLET RESEARCH PROJECT

Adult learners a “missing generation” in Indigenous language revitalization

BY TARA SHARPE

BC is home to nearly half of the approximately 60 Indigenous languages in Canada. With the majority of fluent speakers 70 years of age or older, many Indigenous languages are endangered. And although young children in immersion are speaking their languages in increasing numbers, many Indigenous adults aged 18 to 60 do not.

Building on decades of partnerships with Indigenous communities and organizations, two scholars—Onowa McIvor (Indigenous education) and Peter Jacobs (linguistics)—wrapped up the first study of the Mentor-Apprentice Program (MAP) in BC this fall.

Adult learners are still a “missing generation” in Indigenous language revitalization. Adult language learners and their impact on the language revitalization movement are “under-studied,” adds McIvor, “with hardly any empirical data”—until now.

The MAP is particularly effective in teaching adult learners. Based on a California model, it was initiated in BC in 2008 by the First Peoples' Cultural Council (FPCC). The MAP research by McIvor and Jacobs focused on 33 adult learners and their mentors and involved 111 interviews (with some learners followed for one to two years).

The Canadian Press published a major story in October, which was picked up

widely across Canada including by CBC News, *Metro News* and the *Vancouver Sun* and included quotes and personal perspectives from McIvor and Jacobs.

Jacobs told the Canadian Press his parents and grandparents were “forbidden [in the residential schools] to speak their language and beaten and shamed and ridiculed and punished in all sorts of awful ways...A lot of those people who came out of that school system chose not to teach their children the language.”

The coverage also included an interview with MENETIYE (Elisha Elliott), a recent graduate of UVic's Bachelor of Education in Indigenous Language Revitalization

SEE MENTORING P. 5



McIvor and Jacobs. UVIC PHOTO SERVICES

staying informed

Visit the Ring online (ring.uvic.ca), the Current Faculty and Staff page (uvic.ca/current-faculty-staff) and look for biweekly Campus Checklist emails to keep up-to-date about our campus.



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UVIC IN THE NEWS

Top 10 of 2016



Uvic researchers made headlines locally, nationally and around the world for breakthrough ideas and research in 2016.

Last year was another great year of memorable moments and compelling news about UVic people, projects, ideas, creativity and research.

A world-first discovery about Stone Age tools, vital hints for the future of coral reefs in warming oceans and a dwarf planet that transfixed media across our globe are just some of the many captivating UVic stories over the past 12 months. They're the kind of breakthroughs that happen when you're working at the edge of what's next.

Here are 10 of our favourites from 2016.

Paleolithic stone tools snag 21st-century attention

How smart were human-like species of the Stone Age? A team led by UVic paleoanthropologist April Nowell revealed surprisingly sophisticated adaptations by early humans living 250,000 years ago in a former oasis near Azraq, Jordan.

Beauty on the brink: what we can learn from dying coral reefs

Research by biologist Julia Baum on coral reefs damaged by an extreme El

Niño around Kiritimati Island could help us understand why some coral is resilient despite the deadly conditions of thermal stress. Baum's research will help scientists anticipate the future for reefs around the world as oceans warm and inform efforts to help them survive.

UVic astronomers help discover new dwarf planet

Two UVic-based researchers were part of an international team of astronomers to discover a dwarf planet orbiting in the disk of small icy worlds beyond Neptune that will help researchers piece together the history of the solar system. "Almost all of these icy worlds are painfully small and faint, so it's exciting to find one that's large and bright enough to study in detail," said Michele Bannister, an astronomer doing postdoctoral research at UVic.

Indigenous language revitalization echoes across generations

The Mentor-Apprentice Program (MAP) profiled on page 1 of this month's Ring brings fluent Indigenous language speakers and adult learners together for immersive language mentoring experiences on the land and in the home.



Uvic researchers made headlines locally, nationally and around the world for breakthrough ideas and research in 2016.

Golden opportunities to detect Zika

Growing up in his native Brazil, UVic chemist Alexandre Brolo saw the ravages of dengue fever and the constant struggle by authorities to control its spread. Now, Brolo is putting his expertise to use against the Zika virus by using nanotechnology, gold and smartphones to detect the virus and the mosquitoes that carry it.

World's only academic chair in transgender studies

Aaron Devor is the world's only Chair in Transgender Studies, focusing on research into a broad range of topics concerned with the lives of trans and gender nonconforming people and to explore crucial issues such as healthcare, poverty, discrimination and suicide.

Indigenous entrepreneurship program named "best in world"

The NW-ACE program, a partnership between Tribal Resources Investment Corporation and UVic's Gustavson School of Business, was awarded the top spot at the Gold Global Best Awards in Oslo, Norway in September. The prestigious international honour recognized the partnership's success in providing leading business education, upon invitation, to Indigenous communities in BC.



Uvic researchers made headlines locally, nationally and around the world for breakthrough ideas and research in 2016.

New acquisition complements Japanese-Canadian research project

Six banker boxes full of heirlooms including diaries, photos and precious textile items will now help restore a stolen history as part of one of the biggest research projects in the field of humanities in Canada – the UVic-led Landscapes of Injustice on the dispossession of Japanese Canadians in the 1940s.

The indignities of dying on the streets

After hearing stories from outreach workers about people dying in the streets, Kelli Stajduhar, nurse and affiliate of UVic's Institute on Aging and Lifelong Health, launched a study looking at palliative care options for the homeless.

Social app for iPad helps children on the autism spectrum

A powerful educational tool for learning faces and recognizing emotions of the important people in the lives of children on the autism spectrum—the Let's Face It 2.0 app—was developed by UVic's Centre for Autism Research Technology Education (CARTE), led by psychologist Jim Tanaka. The app is free and available on iTunes.

Stories and images: uvic.ca/whatsnext

PROVOST'S DIVERSITY RESEARCH FORUM

Celebrating a decade of critical conversations

BY MEL GROVES

Since 2007, the UVic Provost's Diversity Research Forum has been creating a space for critical conversations about diversity and social justice topics and community-engaged university scholarship. Online registration is now open for the tenth annual forum January 26 and 27.

"It's hard to believe that this is our tenth year," says Grace Wong Sneddon, conference chair and Advisor to the Provost on Equity and Diversity. "The committee is so excited about this year's program, Re-Imagining Identities, Power and Privilege. We will be taking a retrospective look at our journey and our progress over the last decade as well as looking ahead at how to mobilize our conversations into action in the future."

Since the inaugural forum, the conference has taken its own journey through a diversity of themes, including reconciliation and resurgence (2016); living social justice (2012); privilege and prejudice in the learning environment (2015); and arts, allies and activism (2014).

Unlike most academic conferences, the format of presentations is as varied as the subject matter. "We have had the pleasure of hosting so many dynamic speakers over the years. They have shared generously from their experiences and really jumpstarted our conversations," says Wong Sneddon. "We have featured theatre performances, world cafes, music, art, spoken word and writing performances – every year is different."

The forum begins on Thursday afternoon, Jan. 26 in First Peoples House. The opening reception will include a screening of a short video produced



Dr. Adam Conn's session on "Gender bias and music" will explore some of the stereotypes hidden in music. PHOTO: UVIC PHOTO SERVICES

especially for the tenth anniversary conference, as well as the presentation of the Provost's Advocacy and Activism Award, and readings by winners of the Diversity Writing and Diversity Spoken Word contests.

Sessions on Friday, Jan. 27 include:

- Mobilizing our Words: Student Voices on the Indigenous and International Strategic Plans
- Blows against the Academy: Shifting Definitions of Scholarship
- As Long as the Sun Shines, Grass Grows and Rivers Flow:

A Century and a Half Measured through Artistic Activism

- Globalization, Migration and the University: Challenges and Opportunities
- Social Justice, Diversity and Advocacy

"The feedback to this event has been overwhelmingly positive," says Wong Sneddon. "The conference provides a safe space to have conversations that can be difficult but are so necessary. We can only move forward together to make our campus and our communities truly welcoming and inclusive if we talk about these issues."

RESEARCH EXCELLENCE

New Genome Canada funding boosts two UVic proteomics projects

A project co-led by University of Victoria biochemist Christoph Borchers will use more than \$3.8 million in new funding from Genome Canada to make mouse models more powerful and meaningful to the study of health and disease.

The project, conducted in partnership with researcher Albert Sickmann at the Leibniz Institute of Analytical Sciences in Germany, is developing a prototype proteomics-based process for rapid analysis of 3,000 mouse proteins in 20 different tissues. The new technology will be commercialized by Victoria-based MRM Proteomics Inc., and provided as a service or an easy-to-use kit to researchers around the world.

Also funded is UVic chemist Fraser Hof, who receives \$238,800 to investigate "methylation"—the smallest form of biochemical control switch that has huge implications for how our cells function, especially in diseases such as cancer. The project will further advance a tool developed by Hof and his team that could transform diagnostics, therapies and research related to aggressive forms of cancer.

ringers

We know we have incredible research talent at UVic, but it's always gratifying when someone outside the university provides measurable evidence. Thomson Reuters has recently added a new UVic name—climate statistician **Francis Zwiers**, of the Pacific Climate Impacts Consortium—to its annual list of the world's most highly cited researchers. Very few researchers earn this lifetime distinction, which says you are in the top one per cent of most cited researchers in your field—globally. Zwiers joins **Yang Shi** (mechanical engineering) and **Roy Suddaby** (Gustavson) on the 2016 list, which covers publication citations from 2004-14. Zwiers is an internationally recognized expert on climate variability and change has contributed extensively to the UN Intergovernmental Panel on Climate Change.

Separately, **Yang Shi** was also named IEEE Fellow by the Institute of Electrical and Electronics Engineers, an association dedicated to advancing innovation and technological excellence for the benefit of humanity. He is recognized for contributions to networked and distributed control systems that enable the long-distance control of machines and electrical systems.

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DAVE LYNN

Navigate the ever-changing market

A longtime resident and UVic grad, Dave is helping local residents and new-comers to navigate their way through the real estate market. Whether buying or selling, he will assure smooth sailing. Just ask his many clients at UVic.

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Minimum Payout *	\$238	\$278	\$333	\$440	\$485	\$568
Total Payout to Age 100	\$143,551	\$135,958	\$128,856	\$120,924	\$115,753	\$108,626

Accelerated Payout:

Income over 5 years	\$1,750	Total 5 year payout	\$105,020
Income over 10 years	\$918	Total 10 year payout	\$110,138
Income over 15 years	\$641	Total 15 year payout	\$115,413

* Based on best current GIC of 1.97%. Returns will vary depending on investment vehicle. Monthly income based on \$100,000

LIFE ANNUITIES (PER CANNEER BASED ON INITIAL INVESTMENT OF \$100,000)

AGE	55	60	65	71	75	80
Male						
...payments cease at death	\$438	\$481	\$558	\$685	\$787	\$984
...10 years guaranteed	\$434	\$473	\$540	\$638	\$695	\$807
Female						
...payments cease at death	\$400	\$443	\$499	\$608	\$695	\$861
...10 years guaranteed	\$397	\$443	\$490	\$581	\$641	\$755
Joint Life: 10 yrs guaranteed	\$373	\$403	\$451	\$526	\$584	\$704

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around the ring

Bullying and harassment awareness training

As you may recall, WorkSafeBC introduced legislation to address workplace bullying and harassment through Bill 14 and related occupational health and safety policies. As part of this legislation, all employers in BC are required to provide mandatory training to their employees and supervisors to recognize the potential for bullying and harassment, take appropriate preventative steps, and know the procedures for reporting and responding to complaints or incidents. The university has developed two training modules in CourseSpaces to address these requirements: 1) Awareness and Prevention of Bullying, Harassment and Discrimination for Employees, and 2) Addressing Bullying, Harassment and Discrimination for Supervisors. All staff, faculty and leaders can now enroll to complete the online Employee course. Those individuals who are supervisors, or exercise supervisory responsibilities, are also required to complete the online Supervisor course. Each course is expected to take approximately 30 minutes and supervisors are asked to ensure staff are provided time to complete this training. To access the training, and for additional information and resources about workplace bullying and harassment prevention, please visit uvic.ca/ohse/health/harassment/index.php.

New scan-copy-print environment ahead

UVic is entering into an agreement with Ricoh Canada to provide new multifunction (copy / print / scan / fax) devices, printers and fleet management services to campus. The contract with Ricoh is an outcome of the joint procurement process for BC's 25 public post-secondary institutions and the Ministry of Education, and will begin with site visits by Ricoh to assess how document handling—by photocopy, printing and scanning—works in different campus offices. Information from the initial phase of the project will guide equipment replacement as well as future enhancements to UVic's print and document management infrastructure. More information about the Ricoh agreement will be available later in January.

North Saanich approves UVic Dunsmuir plan

UVic's plan to sell the former Dunsmuir Lodge and lands to Homewood Health and the Pauquachin First Nation is a step closer to completion with re-zoning and subdivision approval from the District of North Saanich. Following a lengthy public hearing Dec. 7, North Saanich council voted 6-1 in favour of UVic's application for rezoning and subdivision of the 100-acre property on the slopes of Mount Newton. Full Ring story online: bit.ly/uvic-duns



Newly installed cedar carving *Shark (Dagfish)*, by Haida artist Robert Davidson, frames the indoor scene during November's building naming ceremony. UVIC PHOTO SERVICES

BY TARA SHARPE

The Michael Williams Building, officially renamed in November 2016 after being known as the Administrative Services Building since it opened in 2008, now stands as tribute to the legacy and generosity of the late Michael Williams, devoted local philanthropist, heritage property developer and patron of the arts.

UVic was the main beneficiary of the Williams estate and his transformative gift remains the single largest donation from an individual in the university's history.

The official proceedings began Nov. 17 with a welcome to the territory by Skip Dick (Songhees) and a prayer from May Sam (Coast Salish, Tsartlip) and concluded with the unveiling of the new sign outside, followed by a ceremonial blessing of song, drumming and dance by the Copper Maker Dancers with Chief Calvin Hunt and his family.

Cultivating a creative advantage for students and researchers

President Jamie Cassels said in his remarks to the assembled gathering of approximately 100 people including friends of Williams that he was "reminded what a generous, insightful, forward-thinking man [Williams] was." His legacy "will only amplify further over time."

Hjalmer Wenstob (Tlehpik)—a Nuu-chah-nulth artist from the Tla-o-qui-aht Nation who is currently a UVic MFA student in visual arts—was also a member of the platform party and spoke of how his grandfather knew Williams.

Earlier this year, Wenstob was featured in the exhibition *Emerging Through the Fog: Tsa-gwa-supp and Tlehpik—Together*, which combined prints of Art Thompson (Tsa-gwa-supp) with contemporary interactive carvings by Wenstob at Legacy Art Gallery Downtown.

Wenstob recounted how, for the exhibit, Thompson and his grandfather "separated by time came back together...and I think Michael was there too."



A legacy to support the academic mission

Williams passed away in November 2000 while en route to London. His estate had a net value at the time of \$17 million, primarily in the form of real and personal property including Swans Hotel & Brewpub as one of nine downtown heritage properties, an oceanfront home and a 1,000-piece fine art and antique collection of Northwest Coast Indigenous and contemporary art from the Pacific Northwest region including major works by Jack Shadbolt, James Gordaneer, Myfanwy Pavelic, Robert Davidson, Roy Henry Vickers and Susan Point.

This remarkable legacy continues to provide a revenue stream to fund initiatives and support the university's academic mission. For instance, as a reflection of Williams' keen interest in marine ecology, UVic used proceeds from the estate toward construction of a new building at the Bamfield Marine Sciences Centre in 2004 and the purchase of the Vancouver Island Technology Park in 2005 and, in 2008, created the Williams Legacy Chair in Modern and Contemporary Art of the Pacific Northwest.

Williams Legacy Chair Carolyn Butler-Palmer remarked during her speech that she'd been "deeply moved with what I've learned, working with communities here to carry forward the Michael Williams name and legacy for future generations. It is truly the next generation—our students—who are the true vectors of Michael Williams' values. Through the work of our students, the legacies of Michael Williams live on in the world."

The Williams art collection also continues to serve as an important point of entry for students to develop a critical curatorial process and has also strengthened community access to university programs, activities, facilities and knowledge. Pieces from the collection can now be found throughout the Michael Williams Building—including *Shark (Dogfish)* by Robert Davidson (Haida), of carved and painted red cedar (see photo above)—as well as in public spaces on campus, in Swans Hotel and in the university's downtown public art gallery.

'A publican and a public man, a visionary and a Victorian'

Williams was born in 1930 in the county of Shropshire, England. His connections to Victoria reach even further back in time: his maternal grandfather was a stone mason who journeyed from England to help complete the Parliament Buildings and the Empress at the turn of the last century.

Williams himself moved to BC early on, relocating from the farming region of Shropshire to the sheep ranches of the Okanagan in 1950 at age 20, then settling in Victoria in the late 1950s to work as a dog trainer and run a kennel in Langford—with his sheep dogs and flock of sheep a regular fixture at Victoria's spring parade. In 1977, Williams began redirecting his career with a vision of preserving the character of heritage buildings in downtown Victoria while also adding a contemporary flare with bright colour schemes and windowboxes.

He was a one-of-a-kind visionary. A businessman with an outspoken sense of social justice, he was also a quiet philanthropist. Every month, he donated \$1,000 to the Open Door ministry and he often gave sandwiches from his restaurant to people living on the street, many of whom knew him by name.

Although he dropped out of school at age 14, Williams believed in the importance of universities, teaching and research. An honorary degree was granted to him by UVic in 1990 in recognition of his leadership in preserving and renewing Victoria's Old Town district.

The citation noted he was "at once a businessman, developer and heritage conservationist...a publican and a public man, a visionary and a Victorian."

From Jan. 9-15, Shaw TV will broadcast a special documentary video on the Williams naming ceremony (see bit.ly/williams-naming). The event was also featured in a front-page article in the Times Colonist newspaper, online at bit.ly/williams-bldg.



Left: Ceremonial blessing of song, drumming and dance by the Copper Maker Dancers with Chief Calvin Hunt and his family, Nov. 17, 2016. Right: an attendee with the building plaque. UVIC PHOTO SERVICES



In the physiology lab with students Robyn Spilsbury (centre) and Paige Ryan (right), Dr. Lynne Stuart-Hill oversees thermoregulatory testing, as part of a study with firefighters featured in this month's UVic Knowledge column on page 6. PHOTO: UVIC PHOTO SERVICES

New life for McKinnon as the hub of exercise science, physical & health education

BY SUZANNE AHEARNE

When the carpeted square in the central lobby of McKinnon was pulled up and replaced with new flooring to make way for sleek and comfortable modern seating, standing desks and new lighting, the whisking-away of decades of sweat and sneaker dirt also ushered in a new era for the 40-year-old building.

Previously the home of athletics

and recreation at UVic until the Centre for Athletics, Recreation and Special Abilities (CARSA) opened in 2015, the renovated McKinnon is now the teaching and research hub for the School of Exercise Science, Physical & Health Education (EPHE).

"Now, when you walk into the building," says EPHE director John Meldrum, "it becomes a lot clearer that it's not a just a place where people work out, but it's also a place where

people study exercise, movement and recreation."

Three undergrad programs fall under the EPHE (pronounced "EE-fee") banner: kinesiology, recreation and health education, and physical education.

One of the best parts of having EPHE teaching and research labs under one roof, rather than being split between MacLaurin, D- and E-Hut, and McKinnon, says Meldrum, is that "it helps us tell the story of who we are a lot better—from teaching movement to kids, rehabilitation in older adults and excellence in sports—it showcases the diversity of what we do and the academic disciplines that address them."

OCEAN LAB CONTINUED FROM P.1

Sorensen. "We know there's a cascade of chemical reactions that happen as the oxygen is used up. We want to see how these reactions evolve over time and how they interact with each other." "Our main goal is to compare all these measurements to understand what happens over the course of the year as the oxygen content in the inlet changes," says Roberta Hamme, a chemical oceanographer at UVic and lead investigator for the project.

Although the inlet's anoxic conditions have been well-studied in the summer months, little work has been done in the winter. This project, which runs until next May, marks the first time that a wide range of measurements are being taken over the duration of the oxygen depletion process.

International interest

About 30 researchers from UVic are involved, including graduate and undergraduate students. Local partners

The biggest changes Meldrum sees are for the overall student experience in the energetic and bright new spaces and for staff and faculty connections.

Having all staff and faculty offices as well as the Movement Skills Analysis, Rehabilitation Neuroscience, Behavioural Medicine, Motion and Mobility, and Neuroeconomics research labs in a single building presents opportunities for impromptu meetings and finding more ways to work together across areas.

The new social space at the centre of the building is a great place that's more conducive to studying and group interaction. Students can do group work and hang out between classes without having to go to other buildings. It's become an academic space as well, he says.

The main anatomy lab, though no bigger in square footage, is now a brighter, better-designed and more flexible space that's more conducive to learning. The program is able to deliver a better, higher-quality experience in the three teaching labs, especially important since intake for the kinesiology program has doubled in recent years from 30 to 60.

McKinnon is also able to accommodate more grad student office spaces, including an large shared office with meeting space in the middle. A number of flexible, multipurpose spaces are also available to faculty, students and the public to hold seminars, speakers series and workshops.

For more info about the changes in McKinnon read the 2015 Ring article, "What's next for McKinnon?" online at bit.ly/gymnlabs.

THE TUESDAY IT RAINED SPRINKLES

UVic's first Giving Tuesday campaign, on Nov. 29, had two goals: to raise money for student-led initiatives and to raise awareness about this global day of giving on campus and in the alumni community. By the end of Giving Tuesday, the campus and alumni community had raised more than \$20,000, far exceeding the initial goal of \$5,000. Funds raised will go towards grants to different student and alumni groups—similar to past recipients of alumni grants such as the UVic Global Water Brigades and the Formula SAE team. A huge thank you to everyone who donated, volunteered or helped support Giving Tuesday.

The work is expected to shed new light not only on how dead zones evolve but on the role they play in climate change.

The project is funded by the Natural Sciences and Engineering Research Council.

around the ring

Teaching and research award nominations

Nominations for campus-wide teaching and research awards are now open. Nominations for the recently expanded UVic Teaching Awards, now spanning five categories, are open until Jan. 16, 2017. On the research front, nominations for Craigdarroch Research Awards in career achievement, research excellence, artistic expression, knowledge mobilization and research partnerships are open until Jan. 30, 2017.

Three UVic Canada Research Chairs renewed

The search for new anti-cancer drugs, a deeper understanding of the economics of climate change, and fresh insights into the complex mathematics behind constantly changing systems and processes in our lives—these will continue to preoccupy the minds of three UVic researchers in the next several years thanks to recent renewals of their Canada Research Chairs. The renewed chairs are chemist Fraser Hof (Supramolecular and Medicinal Chemistry), economist Cornelis "Case" van Kooten (Environmental Studies and Climate) and mathematician Ian Putnam (Operator Algebras and Dynamical Systems). UVic currently has 38 Canada Research Chairs.

Thanks for your support

The 2016 UVic United Way Campaign has once again made an impact in our community. Thank you to all campaign supporters, whether you attended an event on campus, signed up for payroll donation or put your spare change in one of the coin boxes. This year's campaign events included the Plasma Car Race, Artisan's Market and Power up the Tower. The new format Book Sale will be a continuing feature at the UVic Book Store, so you can keep giving to United Way all year round. Thanks to new and veteran donors, as of Dec. 15 the 2016 campaign had raised \$241,943.

There is still time to donate online at pledge.uwgv.ca/uvic.ca.

UVic research helps first responders cope with the unique physical demands of their jobs

BY KIM WESTAD

Firefighters, search and rescue workers and paramedics put their lives on the line for our safety every day, yet we tend to take their health for granted. These first responders do everything from rushing into burning buildings and extricating injured people from mangled vehicles, to spending the night on a turbulent ocean or plucking a lost kayaker from the waves.

“They’re so busy taking care of others, they sometimes don’t pay enough attention to taking care of themselves,” says Lynne Stuart-Hill, an occupational physiologist in the University of Victoria’s School of Exercise Science, Physical and Health Education. Stuart-Hill’s research looks for ways to improve working conditions for first responders, whom she calls “occupational athletes.”

She used to work with high-performance athletes who know when they’re competing, the time and duration of their match, the weather, the best time to sleep and the best nutrition for their sport. “They can prepare to have an optimal performance. First



Stuart-Hill at the North Saanich Fire Hall. UVIC PHOTO SERVICES

responder workers, whom we count on every day, can’t,” says Stuart-Hill.

First responders don’t know when they’re going to get called out to an emergency, have little information about what they’re doing until they’re on scene and have no idea how long they’ll be there. Some may be pulling survivors out of vehicles with the “jaws of life.” And others may be in a storm at sea, trying to remain standing on a pitching boat as they help an injured boater.

Add to this that many first responders are volunteers. They could be called in the middle of the night or at the end of a long day at their regular

job. “When I looked at these workers and saw how they performed and functioned under such stress, I wanted to try and figure out strategies to help them remain safe.”

Research done by Stuart-Hill and her students has encompassed everything from the development of physical abilities assessments and fitness training manuals to specific findings—such as how caffeine consumption can raise core body temperatures and cause firefighters to use up more air from their tanks, and how firefighters are at a higher risk of heart disease.

The researchers honed in on the unique physical stressors of the job,

such as the heavy gear firefighters wear to protect themselves. While it’s very effective at keeping the elements out, it’s equally effective at keeping in the heat generated by the firefighter’s body.

“When we exercise, we produce a lot of heat very quickly. If there’s no way to thermoregulate and get rid of that heat, it creates its own micro-climate.”

The body doesn’t know how to deal with that and releases heat shock proteins into the blood, triggering the immune system and creating an inflammatory cascade. This can lead to arteriosclerosis and hardening of

the arteries.

Stuart-Hill’s applied research is passed on to the firefighters and their national organizations who can put it to good use. For example, advanced clothing technology might be able to modify gear design to allow the heat to escape.

She and her students have been working with the North Saanich Volunteer Fire Department for about 12 years, providing tips that might seem small but have an impact. “Our goal is to help and support the community,” says Chief John Trelford, “and it’s the same for Lynne and her students.”

Timely actions by many keep campus safe

Preparedness, notification and quick responses by campus community members pay off in arrest of suspect.

Personal safety on UVic’s campus is a shared responsibility—a point demonstrated by events in 2016. Looking out for each other should be an everyday occurrence. And on top of preparedness and prevention, there are times when quick thinking and rapid responses also play a key role in keeping the campus safe.

Last spring and summer, Saanich Police issued community warnings in the Gordon Head and Mount Douglas neighbourhoods about a sexual assault suspect at large. Police were investigating nearly a dozen incidents where a young man exposed himself or groped women in a sexual manner on park trails and near schools. In most instances, the reports concerned a suspect on a bicycle, who then fled the scene.

As part of its response in safeguarding campus, UVic published the police warnings on MyPage for students, staff and faculty. Then on the evening of Sept. 10, a sexual assault occurred on the campus chip trail and was reported to Campus Security. Again, the suspect escaped by bicycle.

Based on the location of the as-

sault, Campus Security responded quickly to alert the university community. By the next morning, the entire UVic campus was posted with a notice about the attack, with Campus Security contact information prominently displayed. More than 150 copies of the notice were posted on all buildings, including residences, and along running trails. University Communications and Marketing also used online notifications and social media to spread the message.

“When we identify a risk to our university community, we evaluate what type of communications we need and then work to notify everyone as quickly as we can,” says Tom Downie, director of Campus Security. “Posting notices along the trails was first among our priorities, given the risk and history of these incidents.”

During early evening that same day, a woman running along the western chip trail off Gordon Head Road took note of the posters as she began her run. Shortly into her exercise, the woman encountered a suspicious man who exposed himself and then rode off on a bicycle. The witness quickly called Campus Security and

officers were immediately dispatched to the area.

Security officers on foot, on bicycles and in a vehicle gave chase to a suspect riding a bicycle. Security officers boxed in the suspect, who had fallen from his bike on an incline. Officers advised the man to sit on the ground and he offered no resistance. Saanich Police were called and police officers arrested a young man, without further incident.

“The posters paid off,” says Downie. “We were able to warn our campus community of a safety threat and a member of the community had the courage and foresight to call us without delay. That gave our Campus Security team the opportunity to respond quickly and effectively.”

Saanich Police credit UVic with helping solve their investigation to make an arrest. “University of Victoria’s Campus Security does an excellent job at ensuring the safety of their students, faculty and staff,” says A/ Sgt. Jerome Leslie. “The University of Victoria and the Saanich Police have an outstanding working relationship. The security officers quickly identified and located the suspect, then contacted us immediately.”

The suspect faced charges under the Youth Criminal Justice Act.



Books as treasures across the ages

UVic Libraries will host 21 rare medieval and early modern manuscripts as the first and only Canadian institution in an innovative partnership collaboration between UVic Libraries and Les Enluminures—a firm based in New York, Chicago and Paris which has the largest inventory of text manuscripts and miniatures from the Middle Ages and the Renaissance. These books will be available for teaching and research until May 2017.

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day in the life

BY TARA SHARPE

A typical day for Gillian Booth as the newest member of Legacy Art Galleries is never predictable. “Exhibitions are always changing,” says Booth who, as the new academic and community programmer, helps to grow and enhance links with the broader community.

Booth has “always been a maker and a writer”—with an eye on art. She graduated from UVic with a BA in 1993 (geography and environmental studies), a BFA in 2003 (visual art) and an MA in 2005 (curriculum and instruction).

Booth is continually exploring new ideas for cross-disciplinary learning opportunities which invariably take many forms on the UVic campus both in classrooms and the campus gallery space Legacy Maltwood, as well as in UVic’s free public art gallery Legacy Downtown.

She researches and surveys the UVic art collection on a regular basis to determine what is available “to choose works for particular workshops” for UVic students.

And she designs those workshops using art from the collection to teach transferable skills in the contexts of “critical thinking, cultural competencies and object-based learning ... and to decolonize how we see art.”

“So much of what we do at Legacy Art Galleries is focused on the Indigenous art collection and what’s happening in Indigenous communities. Teachers are looking for ways to teach First Nations culture. Gallery exhibi-



Booth. UVIC PHOTO SERVICES

tions are a great way to do that.”

Booth was born in Victoria and was part of the first cohort to take French immersion in Victoria from kindergarten to grade 12, graduating from Mt. Doug.

Booth spent several years overseas after obtaining her first undergraduate degree. “I wanted to apply my degree experientially and it was life-changing.” She studied in France and worked in Hungary, Egypt and Ukraine, as well as working with street-youth programs back in Victoria and, while

a UVic student, as a supervisor at Cinecenta and with the Resource Centre for Students with a Disability.

She also volunteered for Canadian Crossroads in a midwifery clinic in Mali.

Now most of her spare time is spent enjoying life with her son, who joined her family when he was eight months old from Kinshasa, a city of 20 million people in the Democratic Republic of the Congo.

In 2017, Booth will be developing two grade-school programs to address

curricular needs of local school boards for meeting BC social-sciences curriculum enhancements with respect to Indigenous history, cultural practice and traditional knowledges.

“It feels like a great fit to be back with UVic again. And I love that we’re downtown. I call it a ‘storefront’ – people can walk in off the street. I really want to help make the art gallery a community space.

The UVic collection is comprised of approximately 20,000 objects and serves the university and all commu-

nities through exhibitions, programs, events, teaching and research.

What has surprised Booth most in these first few weeks in her new role is “just how much significant art there is here – in the gallery spaces and throughout campus in the offices, and more public hallways and classrooms.”

“The gallery is not just about putting art on the walls. The conversations we have around art are one of the most important things we do.”

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