



**BRIDGE BUILDERS**

Davida Bentham, left, from the International Student and Study Abroad Centre, and Janelle Pewopsonias with the Aboriginal Student Centre, are starting their second year leading Building Bridges. They set up the program to expand understanding between Aboriginal and international students, and to provide a safe place for sharing issues, ideas and perspectives. Read more about Building Bridges on Page 5.

COLLEEN MACPHERSON

# School of Public Health moving on

## Provost commits to academic review, director search

COLLEEN MACPHERSON

An academic review of the university's School of Public Health will soon get underway, fulfilling one of three commitments made to the unit in July by Interim Provost and Vice-President Academic Ernie Barber.

Just days into his term, Barber met with faculty members and a student leader in the school "and I made some commitments." The first was to begin a search for a new executive director to replace Robert Buckingham who was removed from the position in May.

"The second commitment I made was to do an academic review that would take place concurrently with the beginning of the search and it would be informative when we're making an offer to someone to serve as executive director," said Barber.



Ernie Barber, interim provost and vice-president academic

The third, he said, was an assurance he would look at all complaints made by students, staff and faculty about various aspects of the school's operation and personnel to be sure each was investigated appropriately.

Even after the investigations are complete, Barber acknowledged work will still need to be done to resolve underlying and lingering issues.

And he was adamant the academic review was not

triggered by the May events involving the school's leadership and subsequent revelations about the number of formal complaints. In fact, when the three graduate schools—public health, public policy and environment and sustainability—were established, each charter document included provisions for academic reviews.

"We're starting with public health," said Barber, "because it was the unit that leapt out of the starting block the fastest and because we're searching for an executive director. I think it's fair for that person to come in with the university reconfirming its commitment to a particular governance, a particular vision."

The provost announced the review to the school Sept. 29 and expects a site visit by external experts to take place

before mid December. Given recent events in the unit, Barber said he needed to be very clear the academic review is not an investigation of the school.

"These are reviews of units (that) help us understand all the barriers and drivers of success and puts it in the context of our desire to meet international standards. It is not an investigation of complaints nor an investigation of leadership. We're not asking them (external reviewers) to come in and do a workplace assessment."

And, he added, it was just coincidental that the review announcement coincided with the university fulfilling a freedom of information request for documentation on the various complaints lodged about the school. Those documents,

See *Investigations*, Page 2

## ■ HARVEST TIME

Fall is a busy time in University of Saskatchewan fields. Just north of Circle Drive near the Beef Research and Teaching Unit, some 42 acres of corn was harvested in late September, all of it destined to become silage for the dairy herd. The corn variety—Pioneer Hybrid Seeds 7213R—was carefully selected for its short time to maturity and its nutritional value as livestock feed. It also produced well this year—about 700 tonnes, or half the herd's requirement for the winter. ■



KRIS FOSTER

# Investigations concluded but issues may linger

From Page 1

released Oct. 5, were redacted to protect the identity and privacy of both complainants and respondents.

The provost described the number of complaints from School of Public Health students, staff and faculty as “abnormal for an academic unit of its size,” and while declining to give details, said they fell into two categories: complaints about academic programs, the way academic policies are or are not being applied, academic processes and academic program administration; and complaints about behaviours.

“What I can say is it is evident to me that all of the complaints, verbal, informal or formal, have been investigated using our processes and policies.” And all but one has been concluded, he said, with actions taken that are “considered to be appropriate.”

Barber admitted that saying an investigation is concluded may not mean it is resolved in the eyes of a complainant or respondent. “That’s the nature

of inter-personal complaints. When I say an investigation is concluded, it means you have come to a place where you can conclude whether or not a policy has been violated.”

Even with the end of all but one investigation, “it would naïve of all of us to believe that there are not still lingering issues in the school. When you’ve had a lot of internal conflict, it takes time to grow back into a place where everybody feels good in the workplace and we will continue to work with everyone in the school to find resolution.”

“I will tell you if we were to see that same volume of new complaints now, I will consider that to be a failure of my leadership and a failure of the leadership of Nazeem Muhajarine, the interim executive director. It is our responsibility to make sure that there is a safe, productive learning and work environment.”

Reflecting on the turmoil within the school, Barber suggested one contributing factor may have been its effort “to do an awful lot in a hurry,” developing and delivering grad programs at the same time

“When you’ve had a lot of internal conflict, it takes time to grow back into a place where everybody feels good in the workplace and we will continue to work with everyone in the school to find resolution.”

Ernie Barber

arguably without the necessary resources. Barber said the result might have been feelings of dissatisfaction: it would not be unusual to hit dead ends and have to back up, “and the people in the programs would be negatively affected by the backing up.”

Barber said interdisciplinary and inter-college research and education “is incredibly difficult to do well. When we try to do something as important to our mission as these graduate schools, we tend to underestimate how much individual and collective effort it takes to do these things well.” Success comes, he said, by committing all resources—money, time, people and attention—to what is important.

With the academic review

Policy, it has been functioning as a joint school with the University of Regina. For the School of Environment and Sustainability, it has been finding its niche within an area rich in research and scholarship.

Notwithstanding the review results, “I personally still feel the university made the right decision to invest in these schools,” Barber said. There is a continued commitment to developing expertise and leadership in these fields; “we have the will because we know we have to be successful in interdisciplinary, inter college programming.” ■

## ON Publishing Schedule

No.	Issue Date	Deadline Date
5	Oct. 24, 2014	Oct. 16, 2014
6	Nov. 7, 2014	Oct. 30, 2014
7	Nov. 21, 2014	Nov. 13, 2014
8	Dec. 5, 2014	Nov. 27, 2014
9	Jan. 9, 2015	Jan. 2, 2015

MEMBERSHIP NO LONGER REQUIRED CALL 306.978.2582 FOR RESERVATIONS WWW.BOFFINS.CA @BOFFINSYXE 106 - 111 RESEARCH DRIVE AT INNOVATION PLACE



# Student services benefit from beverage sales

COLLEEN MACPHERSON

Various services for students continue to be the beneficiaries of revenue generated by the university's cold beverage contract but more drink choices on campus and the growing use of personal water bottles are resulting in fewer dollars to hand out each year.

Earlier this year, the Provost's Committee on Integrated Planning (PCIP) approved the allocation of \$150,000 in revenue from the current exclusive cold beverage agreement with PepsiCo Beverages Canada and from money remaining from the previous contract with Coca-Cola. All of the funds will support students, said Gwen Toole, director of Purchasing Services, "but the totals have fallen far short of the projections."

"Beverage-drinking trends

have changed," said Jim Traves, director of finance and trusts with Advancement and Community Engagement who, with Toole, oversees the contract. "People are making healthier choices by drinking water rather than soft drinks and supporting sustainability by using refillable containers."

In fact, PCIP approved \$50,000 in contract revenue specifically for the purchase and installation of water bottle filling stations around campus in 2013.

The 2014 revenue allocation is divided a number of ways: \$25,000 to disability services for students; \$55,000 to scholarships; \$30,000 to Huskie Athletics; \$34,000 to the U of S Students' Union; and \$6,000 to the Graduate Students Association. Huskie events account for a large



Gwen Toole, director of Purchasing Services, and Jim Traves, director of finance and trusts with Advancement and Community Engagement.

KRIS FOSTER

share of revenue, and that results in its large allocation.

Toole said the revenue allocations come with no strings attached. "We are trying not to direct how the various groups use the funds but the intent is that it will be used to assist students."

Exclusive beverage agreements have been contentious issues at universities in the past and the current PepsiCo contract involved more than

two years of consultation before a request for proposals was even issued, said Toole. That contract expires in 2016, she said, but there is a provision for a five-year extension.

In reality though, the beverage agreement is no longer exclusive. Retail outlets on campus not controlled by the university sell a wide variety of beverages outside the PepsiCo brand. Traves said as a result, "the

next beverage agreement will be similar to a preferred supplier contract like we have for cylinder gasses or paper. The question is, how do we get the best value for the university?"

"Beverage agreements just are not that special anymore," said Toole who will work with Traves to monitor the transition from an exclusive to a preferred supplier contract with a revenue stream. ■

# Taking stock of the land

## Assessing future needs for teaching, research

COLLEEN MACPHERSON

Judy Yungwirth could use a crystal ball; it would come in handy for her current project.

Yungwirth, director of Corporate Administration, is helping determine the university's future needs for land for both research and teaching. The U of S owns about 5,000 acres outside of Saskatoon that is currently being used by various units and colleges for research and teaching. In addition, it leases another 3,000 acres across the province, in the far North and as far away as Sable Island in Nova Scotia for research.

"What we're trying to find out is if we own what we need and if we need what we own," she said.

The need to look at future land use, which is being directed by a large steering committee with representatives from across the university and from civic and provincial governments, is driven by researchers themselves, said Yungwirth. Some say more land is needed for their work and the university may ultimately have

to purchase more "but we want to approach this strategically. We also want to raise awareness about the resources that are already available to us. And to study our long-term needs, we have to start with a land use inventory."

An external consultant is doing that inventory of how university lands are currently used. An expert in land-use planning, the consultant will also meet with researchers and others to determine their long-term needs. The end product will be a report and map of university land use. The report, said Yungwirth, will detail researchers' ambitions and requirements for the future.

The project is described by Yungwirth as an extension of *Vision 2057: University Land Use Planning*, a document approved in 2009 to guide land development within the boundaries of the city. Similar principles will apply to land outside the city; "we value land to support teaching and research but also recognize

its economic value."

The report and inventory will be invaluable for decision-making, she said, particularly "when people are calling us to sell us their land, and that happens a lot, or when people in colleges want to buy additional

land. It will help us decide if we always need to buy land or if it would be better to lease" depending on the research project.

And by understanding future needs, Yungwirth said the university will be better able

to find land that is just right for the research—in the right location, with the right characteristics like access, infrastructure and soil type, and at the right price. Finding a perfect fit can take years; "it's why we have to plan ahead." ■

FROM THE ARCHIVES

## Criticism and controversy



PATRICK HAYES, UNIVERSITY LIBRARY, UNIVERSITY ARCHIVES AND SPECIAL COLLECTIONS

A-3901

In this issue we see two female students sharing a copy of the University of Saskatchewan Engineering Student Society newspaper *The Red Eye*. The paper was not without its share of criticism and controversy; it often featured racist and sexist material and strove to be outrageous and provocative. A complaint was lodged with the Saskatchewan Human Rights Commission alleging "that by publishing and

distributing on the campus of the University of Saskatchewan on October 3, 1979, and on January 27, 1981, the newspaper *The Red Eye* which newspapers contained articles, notices, symbols and other representations which ridiculed, belittled and affronted the dignity of all women resident in Saskatchewan." The board agreed but was later overruled in the Court of Queen's Bench. ■



Judy Yungwirth, director of Corporate Administration. COLLEEN MACPHERSON

## NEW TO US



Wanda Martin

"I lived in a van for four years, on a street – that's always a good story," said Wanda Martin. "My husband and I did that together in Victoria."

As a specialist in exploring novel solutions to public health problems, particularly food security, she said her living arrangements were more an accident of circumstance after spending years backpacking around Europe.

"It may seem peculiar, but we didn't really consider ourselves homeless until I was working with a professor at the University of Victoria (UVic) whose special area was homelessness," she explained. "I thought, oh, technically, that was us. But of course it was a lifestyle choice, and in Victoria, you can do that."

When life in the van and a job as a part-time nanny lost their allure, Martin cast about for a new direction, setting her sights on a nursing degree at UVic. After her undergraduate studies, she completed a master's degree at the University of Manitoba where she conducted research on breast cancer. Continued interest in nursing research took her back to UVic, where she was drawn to public health and a PhD looking at how food safety regulations affect food security initiatives.

Martin said she is intrigued by public health research priorities at the U of S, such as One Health, as well as by the work of colleagues, specific projects like Station 20 West and the international work of nursing professor Pammla Petrucka in Tanzania. She joined the College of Nursing as an assistant professor in July 2014.

"I'm really interested in health equity," Martin said, everything from guaranteed minimum income levels and reliable transit service to making sure neighbourhoods have grocery stores within reasonable walking distance.

"We're looking at differences in the ability of people to achieve health that can be modified. We can increase social assistance to reduce poverty—and that's the key thing. We can make sure there's access to food, we can ensure it is quality food. There are things that affect people's health that are unjust and changeable." ■

**NEW TO US** highlights the work of new faculty members at the University of Saskatchewan. If you are new to campus, or know someone who is, please email [ocn@usask.ca](mailto:ocn@usask.ca)

Send letters and viewpoints to

[ocn@usask.ca](mailto:ocn@usask.ca)

## ON CAMPUS NEWS

*On Campus News* is published 18 times per year by University of Saskatchewan Marketing and Communications. It is distributed to all U of S faculty, staff, graduate students and members of governing bodies, as well as to others in the university community, related organizations, some Saskatchewan government officials and news media.

Subscriptions are available for \$22 per year. Story and photo ideas are welcome. Advertising rates are available online or on request.

*On Campus News* aims to provide a forum for the sharing of timely news, information and opinions about events and issues of interest to the U of S community.

The views and opinions expressed by writers of letters to the editor and viewpoints do not necessarily reflect those of the U of S or *On Campus News*.

**Editor:** Colleen MacPherson

**Writers:** Kris Foster, Michael Robin

**Designers:** Brian Kachur, Pierre Wilkinson

**Editorial Advisory Board:** Patrick Hayes, Sharon Scott, David York, John Rigby, Sandra Ribeiro, Fiona Haynes, Steve Jimbo



ISSN: 1195-7654 PUBLICATIONS MAIL AGREEMENT NO. 40065156

Return undeliverable Canadian addresses to:

UNIVERSITY OF SASKATCHEWAN  
MARKETING AND COMMUNICATIONS  
501-121 RESEARCH DRIVE SASKATOON, SK S7N 1K2

Email: [communications@usask.ca](mailto:communications@usask.ca)



SCIENCECARTOONSPLUS.COM

# Alumni recognized

Eleven University of Saskatchewan alumni have been selected as recipients of this year's U of S Alumni Association's Alumni Achievement Awards. All of the award winners will be recognized at the annual Honouring Our Alumni reception Oct. 23 at Louis' Loft in the Memorial Union Building on campus. More information about the reception and the full citations for award recipients can be found at [alumni.usask.ca/achieve](http://alumni.usask.ca/achieve)



Bellegarde

Belsher

Dyck

Fulton

Greve

Lake



McCreath

Morrison

O'Kane

Pocha

Schmitz

**Leanne Bellegarde** (LLB'91) for leadership in advancing Aboriginal partnerships.

**Merlis Belsher** (BComm'57, LLB'63) for dedicated service and philanthropy to the University of Saskatchewan.

**Shannon Dyck**, young alumni recipient (BA'09, MES'12) for volunteerism and commitment to environment and sustainability initiatives.

**Fred Fulton** (BSA'50, PGD'68, MCTgEd'72) for significant contributions the University of

Saskatchewan and the agricultural industry.

**Dr. Donald Greve** (BA'58, MD'60) for leadership as a community builder and commitment to the arts.

**The Hon. Dr. Terry Lake** (DVM'86) for dedicated public service and community leadership.

**Scott McCreath** (BComm'69) for professional excellence, community involvement and philanthropy.

**Heather Morrison**, young alumni recipient (BFA'08) for volunteerism and contribution to theatre and the arts.

**Mike O'Kane** (BE'92, MSc'96) for global leadership in business and industry.

**Sheila Pocha** (BED'86, PGD'97, MED'00) for leadership and contributions to Aboriginal initiatives and education.

**Andrew Schmitz** (BSA'63, MSc'65, DLitt'99) for significant contributions to education, agriculture and economics.

# Rooftop research

## Parkade garden shows food-growing potential

✍ MICHAEL ROBIN

"You can never have too many tomatoes," said Grant Wood, aghast that anyone would suggest otherwise. "You cut them up, put them in zip-lock bags, and freeze them. Then you pull them out as you need them, add some chickpeas and make curry."

It seems there will be much curry made this year, due to the healthy tomato harvest from a research garden on the top of the Stadium Parkade. The garden is a joint effort between Wood, assistant professor in the Department of Plant Sciences, and Diane Knight, professor in the Department of Soil Sciences, and is aimed at exploring low-cost urban food production.

"Low cost" is apparent in every part of the garden. Some containers are blue plastic drums, bought for \$5 each from a local food ingredient manufacturer. These are cut in half and filled with a soilless mixture. Other containers are 20-litre pails obtained free from Culinary Services. Most expensive are purpose-built square plastic containers bought from a local store. The whole

setup sits on pallets donated by the Facilities Management Division.

Knight explained the containers have a few embellishments, like bits of tubing and drainage holes for a "self watering" system. The half barrels, with their higher soil volumes, do not dry out as quickly and hence do not need the tubes, but drainage holes are still required.

"We were trying to make a cheap homemade version out of easily accessible materials, pails and whatnot," she said. "We did everything as cheaply as we could. We wanted to demonstrate that anybody could do it."

The difference in cost is striking: \$60 per container for the purpose-built square containers, versus \$2.50 each for the half-barrels, and free for the pails.

Judging by plant performance, the homemade system wins hands down. Lush, fruit-laden plants in the barrels and pails contrast with much smaller plants and a few fruit in the more expensive plastic boxes.

“ We did everything as cheaply as we could. We wanted to demonstrate that anybody could do it.

Diane Knight

This is good news for the researchers, whose ultimate aim is to transfer what they learn into local food production wherever there are willing hands, plentiful sun and a source of water. This could be on apartment balconies, back or front yards, vacant lots or even "brownfield" sites where the local soil is, or is suspected of being, contaminated. Since the system sits on pallets, whole gardens can be relocated if needed, and vacant land can be made not only productive, but made into gathering places to build community as people work together on their gardens.

"We take food for granted," Wood said, confessing a personal passion for food production and



Grant Wood, right, and Diane Knight examine the tomato crop atop the Stadium Parkade.

✍ MICHAEL ROBIN

# Bridging the cultural divide

✍ COLLEEN MACPHERSON

A unique program designed to expand understanding between Aboriginal and international students at the U of S was the topic of a presentation at the North American Higher Education conference in Arizona in early October.

Davida Bentham, a student assistant in the International Student and Study Abroad Centre, and Janelle Pewapsonias who works part-time in the Aboriginal Student Centre, travelled to the University of Arizona to share what they have learned about Building Bridges, the cultural understanding program they started last year.

"Our aim is to inspire other colleges and universities to look into our model," said Pewapsonias of the presentation. "We also want to share some of our special successes."

Building Bridges creates opportunities through workshops and social events for

students to come together to share their stories and perspectives, and to begin conversations, explained Bentham. "What we've done is created a respectful space to share those stories."

The program, said Pewapsonias, brings together people "who would never have met in other social situations. They got to hear other perspectives, issues and values, and to share their own. I think the students were a bit more proud of who they are and were happy to share what they know about their own culture."

This year's Building Bridges program started with a Sept. 28 bus tour of the city for new-to-Saskatoon international and Aboriginal students. The tour highlighted support services and included a visit to the Prairie Prism Festival and the Saskatoon Forestry Farm and Zoo. Throughout the academic year, Bentham and Pewapsonias will

be organizing workshops with guest speakers and student-led sharing circles open to everyone and offered free of charge.

Bentham said about 380 students participated in various Building Bridges events last year.

Pewapsonias said she believes everyone involved in Building Bridges gains a better understanding of "the complexities of identities within the Aboriginal culture" and feels more welcome at the U of S for having a chance to share personal experiences.

"Our smaller goal," added Bentham, "is to contribute to some form of reconciliation" by helping students overcome what she termed "the cultural iceberg. When you're thinking about multiculturalism, often all you see is peoples' dance, people's culture, peoples' food. By sharing historical facts and issues, you come to realize Canada has a bit of a messy history." ■

the empowerment it brings. "My international travels, my work in local food security and my friendships with international students really drive this point home. There are many, many social, cultural, community and personal benefits from urban food production."

Judging by the demand for his course, Urban Food Production, it's a message that resonates with students. Wood developed the course to help students understand "why we should be growing more food locally, and then ... how to grow food." Enrolment has quadrupled from 20 to 80, drawing students from four colleges.

Wood and Knight are

working with community groups like CHEP Good Food Inc. and with a green roof specialist on the pallet-container garden system. Inspired by Sole Food Farms in Vancouver, where inner city people grow fresh produce for their own use and for sale, Wood's students have written a proposal to help the idea take root in Saskatoon.

"So fingers crossed. We're going to city council before next spring to get permission to use two lots on 20th Street," Wood said.

Back at the office, there is a bag of fresh tomatoes on the chair, together with a recipe. There are never too many tomatoes, it seems. ■

VIDO-INTERVAC LIAISON COMMITTEE  
**COMMUNITY**  
www.intervac.ca

**VIDO-InterVac Community Liaison Public Meeting**

**Tuesday, October 14, 2014  
7:00 PM**

**McNally Robinson Bookstore  
REFRESHMENTS TO FOLLOW**



# HOST YOUR NEXT CONFERENCE AT HOME

## CONVENTIONS SASKATOON! IS HERE TO HELP FROM START TO FINISH.

Conventions Saskatoon! is a committee of partner hotels, convention centres, attractions, suppliers, transportations companies and more working together to serve you. When you choose Saskatoon as your convention destination, we go to work immediately to ensure you have the best convention experience.

### Venue Search

We'll contact hotels and venues on your behalf for pricing and availability.

### Funding Assistance

We will assist with Funding applications.

### Bid Support

We will prepare a comprehensive bid package to show organizers why Saskatoon is the perfect host city for your event.

### Site Visit

We can provide support for key decision-makers to view our accommodations, meeting facilities and attractions.

### Our support continues after you win the bid

We will assist you in promoting your event by providing to you the following:

- Marketing materials, images, videos and brochures
- Comprehensive guide to event planners, tour companies, companion programs, speakers and suppliers
- During the event we will provide signage, visitor guides and mini-maps

### When local hosts hold events in Saskatoon, everyone wins

Raise your profile within your field as well as showcase our vibrant business community and the bustling cultural and entertainment scene to your colleagues. Exchange ideas and insight with leaders in your industry and make valuable new connections as you show them the community you call home. Hosting an event in Saskatoon benefits the local economy, bringing additional exposure to our city as not only a tourist destination, but a centre of excellence in a range of industries.



### CONVENTIONSSASKATOON.COM

Contact Brad Peters: [bpeters@tourismsaskatoon.com](mailto:bpeters@tourismsaskatoon.com) | Toll Free: 1.800.567.2444



# Bacteria find raises alarms about antibiotic resistance

✍ MICHAEL ROBIN

When Joe Rubin went shopping for squid in Saskatoon, he found something sinister lurking in the calamari—bacteria that were resistant to “last line of defense” antibiotics.

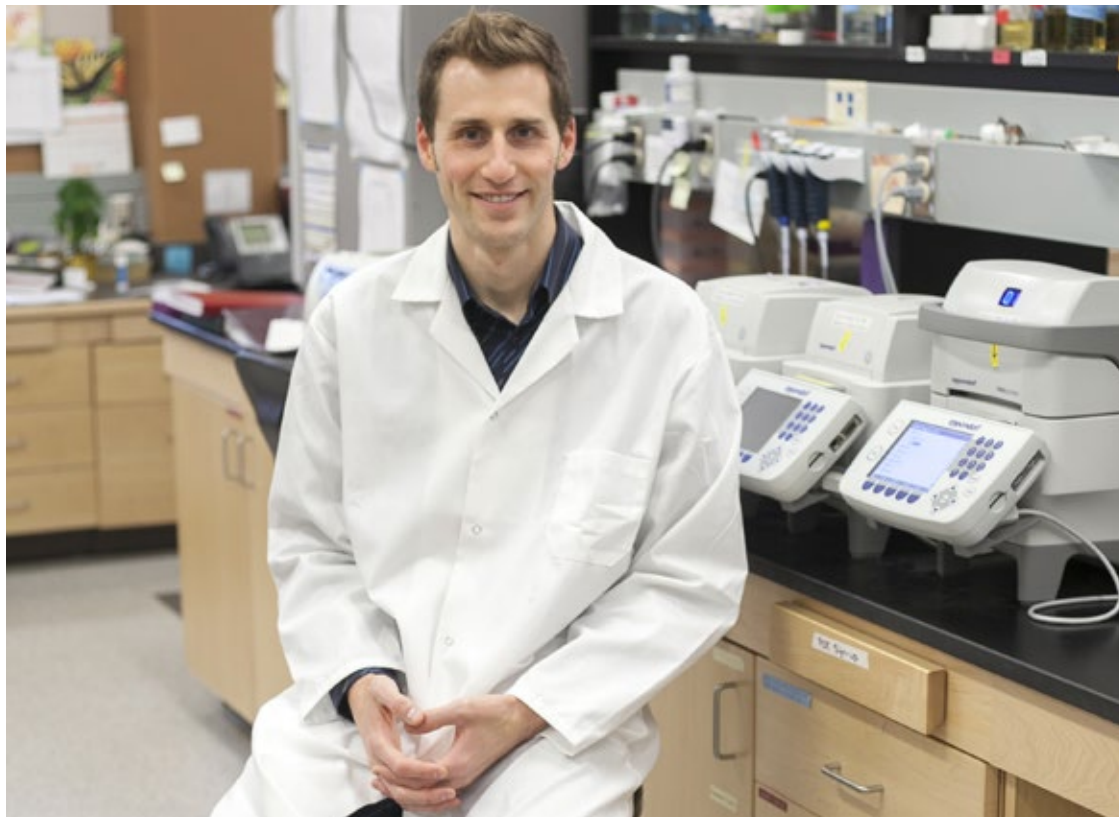
Rubin, who specializes in antimicrobial resistance research at the Western College of Veterinary Medicine, explained he and his team were looking for any bacteria that might be resistant to a class of antibiotics known as carbapenems. They are used for diseases like urinary tract infections and in hospital patients afflicted with pneumonia.

“We weren’t looking for an *E. coli* or *Salmonella*,” Rubin said. “We were looking for anything that would grow in the presence of this drug (carbapenems).”

What they found was “extremely disturbing:” a strain of bacteria that thrived in culture despite the antibiotic. While the species of bacteria is ubiquitous in soil and water and poses little threat to anyone with a healthy immune system, there is no guarantee it will pass on its carbapenem-resistance genes to other organisms, said Rubin.

“Their ability to evolve and adapt is just absolutely astounding,” he said.

Rubin is currently doing



Joe Rubin, assistant professor of veterinary microbiology.

WCV

follow-up work to find out if the antibiotic-resistance traits they found are an anomaly or common in foods. His efforts have attracted the attention of scientists at the Public Health Agency of Canada who are working with Rubin to study this issue across the country.

“They are very interested in finding out where these problems are,” he said. “We’re going to be expanding out—looking at a number of different sites across Canada to see just how widespread these organisms are and if this is something really anomalous, or something that’s

indicative of a bigger problem.”

Rubin hopes the work sparks a change in policy. Currently, if a disease-causing organism such as *Salmonella* is found in a food, it is removed from store shelves. Antibiotic resistance in harmless bacteria would not trigger the alarm.

“Internationally, we need to start targeting carbapenem resistance, looking for the genes and resistance phenotypes, rather than just looking for specific organisms,” he said.

While he cautioned against sensationalizing the issue,

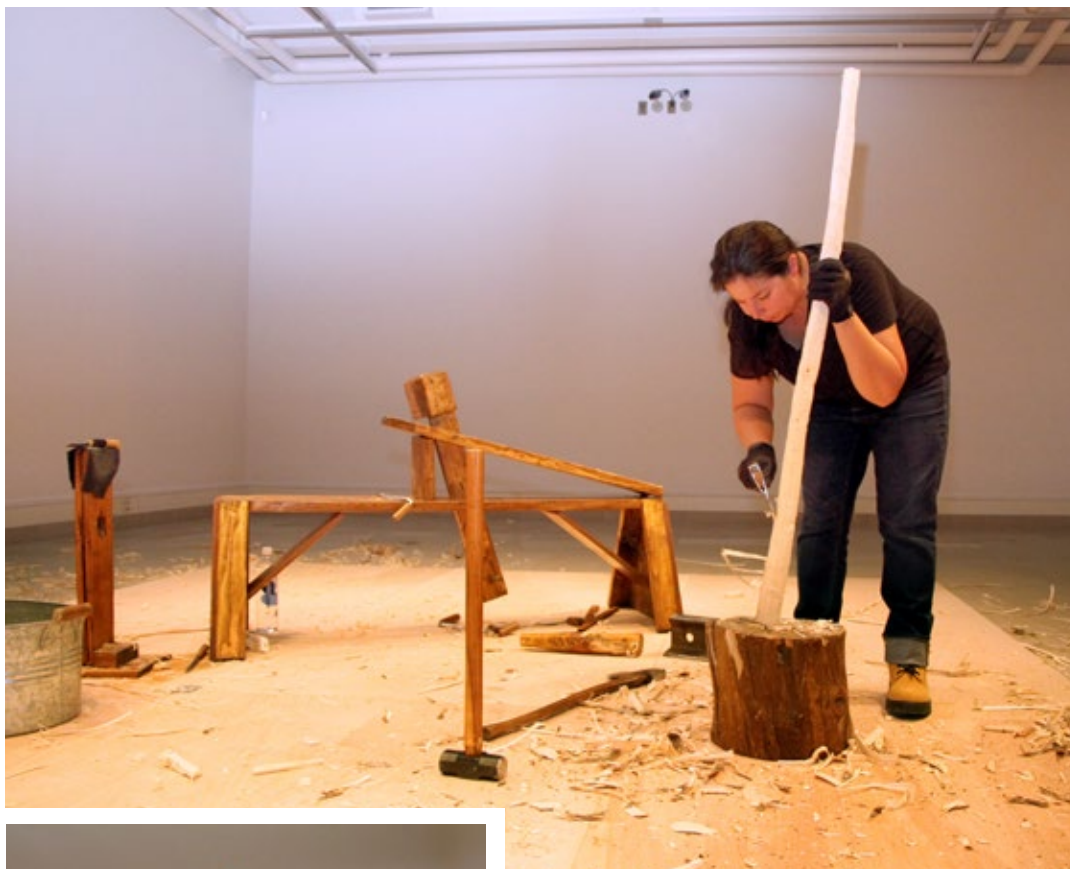
“Their ability to evolve and adapt is just absolutely astounding.”

Joe Rubin

Rubin emphasized that it must be taken seriously. He pointed to the possibility of a post-antibiotic age, at least for certain types of bacteria. So far, scientists have come up with alternatives for treating drug-resistant species like *Staphylococcus aureus* (MRSA) but when it comes species like *E. coli*, “we’re pretty much at an innovation standstill. There’s really nothing new in the pipeline.”

Fortunately, the carbapenem-resistant bacteria discovered in the Saskatoon squid are more of a wake-up call than a threat, in that it was still susceptible to other antibiotics. In the meantime, Rubin counsels good food hygiene as the first line of defense at home. This includes measures like using a different knife and cutting board for raw meats than for ready-to-eat foods, cooking thoroughly and disinfecting surfaces regularly.

“Meat hygiene would certainly be the number one thing any member of the public could do,” he said. “That holds true whether it’s for this type of resistant organism that we’ve identified or any of the gastrointestinal pathogens.” ■



COLLEEN MACPHERSON

## BASKET WEAVER

Halifax artist Ursula Johnson was in the College Art Galleries in late September for the performance portion of her exhibition *Mi'kwite'tmn (Do You Remember)*. The interdisciplinary artist split, pounded and shaved ash logs to produce splints, which she then further shaved to make them usable in Mi'kmaw basket weaving. Visitors to the galleries can use white gloves to examine some of her baskets, like the one shown here, which use traditional techniques to build non-functional forms.

The exhibition continues until Dec. 5. ■

Edith Rowles Simpson Lecture Series

## Mandatory Folic Acid Fortification: Miracle or Bad Public Policy?



**PLEASE JOIN US**  
for the Simpson Lecture  
**Thurs, Oct 16, 2014**  
**at 7:00 PM**

The Leslie and Irene Dubé Theatre  
1150 E Wing Health Sciences Building

Everyone welcome with reception to follow



**Dr. Tim Green,**  
University of British Columbia

Professor of Human Nutrition Dr. Tim Green will talk about mandatory folic acid fortification in Canada – 15 years later. Has this been a miracle or bad public policy? He will also present information on the relationship of folic acid to Vitamin B12 and the influence these nutrients have on human health.

UNIVERSITY OF  
SASKATCHEWAN

[usask.ca/pharmacy-nutrition](http://usask.ca/pharmacy-nutrition)

# Improved patient care the goal of cancer protein research

LESLEY PORTER

Researchers at the University of Saskatchewan and the Saskatchewan Cancer Agency (SCA) are making progress in determining how molecular-specific proteins may be linked to certain types of cancer.

"The disease is kind of misunderstood," said Deborah Anderson, associate member of biochemistry in the U of S College of Medicine and senior research scientist with the SCA. "People typically call cancer one thing. Cancer is hundreds of diseases lumped into one label, and there's no single causative agent."

Rather, she said, there are a number of issues at the molecular level that could give rise to it. Additionally, the sheer number of cancer types and variations means there is no one-size-fits-all treatment option for patients. This has prompted a research shift that identifies the cellular irregularities that may be causing the cancer, said Anderson. From there, customized therapies or treatment plans can be designed for each patient that targets the molecular issue in question.

This is the underlying theme in Anderson's latest research venture, which observed a protein found in breast cancer tumors

linked to metastasis, the spread of cancer to other parts of the body. The protein, called CREB3L1, was very prevalent in normal cells and cancer cells that had spread slowly. But the more metastatic cells contained little to no CREB3L1. Adding back CREB3L1 to the cells reduced their metastatic properties, providing strong evidence that the protein may suppress the spread of breast cancer cells.

Anderson, along with co-investigator Franco Vizeacoumar, hopes to identify genes uniquely required for cell survival in the metastatic breast cancer cells that have lost significant amounts of CREB3L1, as compared to the cancerous but non-metastatic cells that are genetically identical. Genes required for survival of the metastatic breast cancer cells are called synthetic lethal genes and represent vulnerability in these cancer cells that are not present in normal cells.

The U of S is in this type of research due to the recruitment of Vizeacoumar to the SCA last

year, she said. Vizeacoumar brought significant expertise in synthetic lethal analyses.

"Not many people can do the synthetic lethality screens [that we can]," she said. "If you can identify those genes, then test inhibitors to target them, you can identify new treatment strategies for patients with whatever that molecular change might be."

The advent of sophisticated computer technology means that there are a lot of initiatives to take patient tumor samples and do "every kind of analysis



Deborah Anderson, associate member of biochemistry, U of S College of Medicine and senior research scientist with the SCA.

“People typically call cancer one thing. Cancer is hundreds of diseases lumped into one label.”

Deborah Anderson

Anderson, is patient care.

"In my lifetime, there will be more of the research that we're doing, translating into patient screening, patient identification, [and] molecular diagnostics to tailor our treatments more specifically to the patient."

Funding for the project was provided by a \$100,000 Bridge Grant from the Canadian Institute for Health Research. ■

Lesley Porter is communications co-ordinator in the Office of Health Sciences Deans.

## Community engaged funding

A wide variety of projects that address a number of interests and needs have received funding to support community engaged scholarship and learning.

Provided through the office of Community Engagement and Outreach, the funding is available in a number of categories for, another other purposes, experiential learning opportunities, outreach initiatives in K-12 schools and to support community engaged research. Below are the 2014 recipients in each category and the title of their projects.

### Community Engaged Experiential Learning:

Maureen Bourassa, Edwards School of Business, *Marketing Research*

Marie Dietrich Laurer, College of Nursing, *Street Culture Kidz*

*Youth Engagement*

Lee Murray, College of Nursing, *Safe Environment for Adolescents with Developmental Disabilities*

Tom Yates, Dept. of Soil Science, *Community Level Plan for Food Security*

### Engaged Scholar Mobilization Graduate Student Catalyst Award:

Michael Cottrell, Educational Administration, *Public and Community Organizations on Cross-Cultural Education*

Michel Desjardins, Dept. of Psychology, *Disability Experience with Physical and Spatial Obstacles in a Mall*

Alexandria Wilson, Educational Foundations, *Idle No More Reflection*

### K-12 School Outreach Initiatives:

Erin DeLathouwer, Dept. of Philosophy, *Philosophy for Children*

Lana Elias, Division of Science Outreach Programs, *Kamskenow Science Outreach*

Brittany Melnyk, Dept. of Computer Science, *Digitized Conference*

Stavros Stavrou, Dept. of Mathematics and Statistics, *Math Outreach*

### Community Engaged Scholarship Research Seed Funding:

Angela Bowen, College of Nursing, *Post-Partum Depression*

Sarah Buhler, College of Law, *Indigenous Clients in Clinical Law*


Rachel Engler-Stringer, Dept. of Community Health and Epidemiology, *Healthy Mother, Healthy Baby*

Donna Goodridge, College of Nursing, *Age-Friendly Saskatoon*

M.J. Barrett, School of Environment and Sustainability, *Love for Okâwimawaskiy*

**ST. THOMAS MORE COLLEGE**  
UNIVERSITY OF SASKATCHEWAN

**26th Michael Keenan Memorial Lecture**



**Guest Lecturer:**  
**Dr. Russell Hittinger** Chair of Catholic Studies, Chair, Department of Philosophy and Religion, University of Tulsa. Research Professor of Law. Member of Pontifical Academy of St. Thomas Aquinas.

***The Crisis of Modern Times: The (ongoing) Legacy of John Paul II***

**Thursday, October 23, 2014, 7:30 pm**  
**Father O'Donnell Auditorium, St. Thomas More College, University of Saskatchewan**  
**1437 College Drive**  
**Free Admission, Reception to Follow**

[www.stmcollege.ca](http://www.stmcollege.ca)



# Questioning the questions

✍ MICHAEL ROBIN

Does a question asked of a North American mean the same thing to someone from Germany, France or Scandinavia?

Psychology professor Karen Lawson is part of an international team working to answer this question, a step that will help guide all research fields that use data derived from questionnaires.

“There are well-developed ‘rules’ for constructing questions and response options (in questionnaires) that help us, but these were based mostly on American data,” she said, “No one really knows how well they apply in other countries. That is the focus of the current study.”

Lawson and her colleagues are using a single set of well-tested questions from single-country surveys. These are presented to respondents from multiple countries to identify country specific differences.

“The construction of the questions on the questionnaire is key,” Lawson said. “If the questions are vague, or ambiguous, or people are not sure how to respond to the



Lawson

questions, then the data—and the eventual conclusions—will be compromised.”

Questionnaires are a mainstay of social science research, she said, whether it is trying to predict which way political winds are blowing, finding out what products people prefer, or determining attitudes on contentious issues of the day.

The research team, led by Jon Krosnick of the Political Psychology Research Group at Stanford University in California, includes researchers

from Germany, Sweden, Iceland, France, Denmark, the Netherlands and the United Kingdom. Lawson and her U of S colleagues are making use of the Survey and Group Analysis Lab (SGAL) at the Social Sciences Research Laboratories for their part of the research project.

The SGAL not only has state-of-the-art survey technology and technical expertise, but can pull together survey researchers, Lawson said. “Their focus is on supporting survey research, and so it was a natural fit.

“Questionnaires allow you to gain data from a large number of people in a relatively short time period, at a relatively low cost,” she continued. “They are best suited to areas of inquiry that involve people reporting on their own attitudes, or opinions, or behaviours.”

She said the international data collection phase of the research should be complete by year-end. That will be followed by analysis to look for trends in responses and how they vary among countries. Results of the project are expected in 2015. ■

## Around the Bowl



Wiebe

**Alyssa Wiebe** has joined the University of Saskatchewan in the role of college relations officer in the College of Education. In this joint position between the college and Advancement and Community Engagement, Wiebe will work to increase alumni and donor affinity. Wiebe moved to Saskatoon from Athol Murray College of Notre Dame where she was an alumni, marketing and communications assistant.

On Oct. 6, **Maurice Moloney** joined the Global Institute for Food Security as executive director and CEO. He comes to the U of S with more than 25 years in plant research and most recently was with Australia's Commonwealth Scientific and Industrial Research Organization. There he led a team working on



Mohamed

science-based solutions to challenges such as increasing sustainable agricultural production.

**The following appointments have been announced by the Office of the Provost and Vice-President Academic:**

• **Dr. Adel Mohamed** as head of the Department of Anatomy and Cell Biology for a three-year term effective July 1 this year to June 30, 2017.



Baxter-Jones

• **Dr. Tom Smith-Windsor's** term as associate dean, rural and northern programs in the College of Medicine, extended for one year, Sept. 30, 2015.

• **Adam Baxter-Jones** appointed to the position of interim dean of the College of Graduate Studies and Research for the period July 1, 2014 to June 30, 2016.



Moloney



Smith-Windsor

## See the Light: Health Research at the Canadian Light Source

Did you know it has been 10 years since Canada's synchrotron opened? Want to hear about the latest and greatest health research happening there? Talk with young researchers and see where and how they use the synchrotron to study disease.

### Advance registration required

Register online at [fluidsurveys.usask.ca/s/CLS](http://fluidsurveys.usask.ca/s/CLS). Space is limited. This family friendly event is free of charge and handicapped accessible. Free parking will be available.

DATE. SATURDAY, OCTOBER 18  
 TIME. 9 – 11:30AM OR 1-4PM  
 PLACE. CANADIAN LIGHT SOURCE  
 44 INNOVATION BOULEVARD, U OF S CAMPUS



This free event is hosted by U of S CIHR-THRUST (Training in Health Research Using Synchrotron Techniques), which is funded by the Canadian Institutes of Health Research.

[lightsource.ca](http://lightsource.ca)



# Coming Events

## ■ Seminars/Lectures

### D.L.T. Smith Lecture

Oct. 24, 12:30 pm, Room 2302 WCVM, Hon. Dr. Terry Lake of Kamloops, B.C., minister of health for British Columbia and a graduate of the Western College of Veterinary Medicine, presents the D.L.T. Smith Lecture entitled The importance of scientific evidence as the basis for public policy decisions."

### Pharmacy Lecture

Oct. 16, 7 pm, Leslie and Irene Dubé Theatre, Health Sciences E-wing, Dr. Tim Green presents The Simpson Lecture on the topic of mandatory folic acid fortification in Canada.

### Dean Lecture

Oct. 30, 4 pm, Room E1150 Health Sciences, the Dept. of Microbiology and Immunology presents Dr. Preston Smith, dean of the College of Medicine, who will give a lecture entitled Moving Forward at the College of Medicine and the University of Saskatchewan.

### Bateman Lecture

Oct. 23, 4 pm, GSA Commons, Emmanuel and St. Chad, Peter Robertson presents Reginald Bateman, the Great War and the University, a lecture about the life and death of Bateman, one of the university's first professors and war hero.

### History Lecture Series

Oct. 28, 6 pm, Hose and Hydrant Brewing Company, 612 – 11 St. East, the Dept. of History series 7 Days that Transformed the World presents a lecture by Jim Handy entitled The Day Malthus Invented a Population Problem.

### Law Guest Speaker Series

Oct. 20, noon, MLT Lecture Theatre, Room 150 College of Law, Perry Bellegarde, Chief of the Federation of Saskatchewan Indian Nations, presents Resource Sharing in Saskatchewan.  
Oct. 20, 7 pm, Convocation Hall, journalist Andrew Coyne presents Our Broken Democracy—And How to Fix It.

### Co-operatives Seminar

Oct. 29, 3:30 pm, Prairie Room, Diefenbaker Building, the Centre for the Study of Co-operatives presents a seminar with George Melnyk, associate professor of Canadian studies and film studies at the University of Calgary. His presentation is titled The National Film Board of Canada and Co-op Films: A Historical Survey.

### Gairdner Foundation Lectures

Oct. 22, 9:30 am, Dr. Harold Dvorak, 2014 recipient of the Gairdner Foundation International Health Award, will be presenting two Gairdner Foundation lectures: high school lecture in the VIDO theatre at 9:30 am and a faculty lecture at 3:30 pm in 1130 E Wing, Health Sciences.

### Biology Lectures

Oct. 10, 3:30 pm, Room 125 Biology Building, Teng Sheng Zhou, PhD candidate, Department of Biology, presents Metabolite flow to mitochondria and virulence in phytopathogenic fungi.  
Oct. 17, 3:30 pm, Room 125 Biology Building, Zachary Hoover, PhD candidate, Department of Biology, presents The effects of salinization on fathead minnows—Can they thrive in a saltier world?  
Oct. 24, 3:30 pm, Room 125 Biology Building, Barry Cooke, Natural Resources Canada, Alberta, presents Forest insect disturbance in the Canadian boreal: Holocene to Anthropocene.

### Joseph Boyden Lectures

Canadian author Joseph Boyden will give two presentations during a visit to the U of S campus Oct. 15.  
1-2:30 pm, Greystone Theatre, John Mitchell Building, a discussion of his novel *Three Day Road* as part of the College of Arts and Science Book Club

7:30 pm, Convocation Hall, a lecture entitled My Writing Life followed by a reception and book signing

### JSGS Lectures

Oct. 10, 12:30-2 pm, Built Environment, Transportation Systems, and Public Health – with speaker Daniel Fuller, CIHR-funded post-doctoral fellow in the Department of Community Health and Epidemiology.  
Oct. 17, 12-1:30 pm, How Ottawa Mandarins Planned Canada's Post-World War II Peace, featuring Peter Neary, Professor Emeritus and Adjunct Professor, University of Western Ontario's Department of History.  
Oct. 17, 12:30-2 pm, Health Care Regionalization in Alberta: The Good, the Bad and the Ugly, with speaker John Church, Associate Professor, University of Alberta's Department of Political Science.

### Imaging Therapy

Oct. 24, 8:15 am-1:30 pm, Graduate Student Commons, the One Health Imaging Research Group presents the symposium Imaging Therapy Research Using Animal Models of Disease. Featured speaker is Johnathan Wall, director of amyloid and preclinical molecular imaging laboratory, University of Tennessee. RSVP to 306-966-1417.

## ■ Conferences

### Sharing Economy

The Centre for the Study of Co-operatives presents The Sharing Economy Unconference Nov. 6 from 1-4:30 pm in the multipurpose room at Station 20 West. 6 November 2014

### Accessible-AT Conference

Disability Services for Students at the U of S presents the Accessible-AT Conference that focuses on the use of assistive technology in daily life across the disability and age spectrum. Sessions will take place from 1:30-4 pm Oct. 27 and from 9-noon Oct. 28. This conference is free and open to the public. Following the conference, there will be an information fair in the North Concourse, Upper Place Riel, from noon-4 pm. Registration for the conference portion is required.

### Health Innovation Conference

A group of College of Medicine students is holding a health innovation and public policy conference entitled Progress and Policy: How Canadian Healthcare Providers are Shaping the Future of Health Nov. 5 from 12:45-4:30 pm in Room E1150 Health Sciences. Among the keynote speakers are Dr. Chris Simpson, president of the Canadian Medical Association and Karima Velji, president of the Canadian Nurses Association. The event is free and open to the public. Register by Nov. 2 at [picatic.com/healthinnovation2014](http://picatic.com/healthinnovation2014)

## ■ Courses/Workshops

Continuing Professional Learning Medicine For more information call 306-966-7787 or go to [www.usask.ca/cme](http://www.usask.ca/cme)

Oct. 17-18, Saskatchewan Emergency Medicine Annual Conference, Regina  
Nov. 1-2, Advanced Cardiac Life Support Provider and Renewal Course  
Nov. 21 and 22, Practical Management of Common Medical Problems

### International Workshop

Scientists and engineers from three continents will gather at the Canadian Light Source and in the Physics Building Nov. 7-10 for the international workshop of Laser Compton Scatter Gamma Rays at Electron Storage Rings. Details can be found at <http://physics.usask.ca/~physdept/LCS2014/index.html>

### Library Researcher, Reference Series

The University Library is offering two workshop series this term. All sessions are free and no registration is required.

For information, go to [libguides.usask.ca/LibraryResearcherSeries](http://libguides.usask.ca/LibraryResearcherSeries)

### Library Researcher Series

Oct. 16 - Why and How to Do a Comprehensive Literature Review – Part B, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Oct. 20 - What is Plagiarism?, 1-2 pm, Delta Lab, Engineering Building, Room 2B04  
Oct. 21 - Keeping Current with the Literature, 1-2 pm, Delta Lab, Engineering Building, Room 2B04  
Oct. 23 - Finding and Using Open Resources for Teaching and Research, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Oct. 30 - Getting the Most Out of Google, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Nov. 6 - An Introduction to Critical Appraisal: How to Read a Research Paper, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Nov. 20 - Creating your Scholarly Identity Online, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Nov. 27 - Indigenous History Resources, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145

### Managing References Series

Oct. 14 – EndNote Web, 12-1 pm, Murray Library, Rm 161  
Oct. 20 – RefWorks, 3-4 pm, Delta Lab, Engineering Building, Room 2B04  
Oct. 21 – EndNote Desktop, 12-1 pm, Health Sciences Library, Rm 1430  
Oct. 28 – RefWorks, 12-1 pm, Murray Library, Rm 161  
Nov. 4 – Mendeley, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Nov. 18 – Zotero, 12-1 pm, Murray Library Collaborative Learning Lab, Rm 145  
Nov. 25 – RefWorks, 12-1 pm, Murray Library, Rm 161

### Open Access Workshops

The University Library is hosting several events to celebrate Open Access Week Oct. 20-26. All events take place in the Collaborative Learning Lab, Room 145 Murray Library, are free and open to all. No registration required. For more information go to [words.usask.ca/oaweek](http://words.usask.ca/oaweek)

Oct. 20, 1-2 pm, Open Access Week 2014 kick-off event at the World Bank: Generation Open (live-streaming webcast from Washington D.C.)  
Oct. 21, noon-1 pm, Open Data \*for Scholars\*, a session for scholars interested in using and/or publishing open data in their research projects  
Oct. 23, noon-1 pm, Finding and Using Open Resources for Teaching and Research

### Centre for Continuing and Distance Education

For more information, visit [www.ccde.usask.ca](http://www.ccde.usask.ca) or call 306-966-5539 University of Saskatchewan Language Centre

### Part-time English Classes

Pronunciation: Thursdays, until Dec. 4  
Spoken English: Tuesdays and Thursdays, until Dec. 1  
Graduate-Level Writing: Mondays and Wednesdays, until Dec. 1  
Reading Skills: Tuesdays, until Dec. 2  
Listening and Note Taking Skills: Thursdays, until Nov. 27  
English for the Workplace: Saturdays, Oct. 18–Nov. 29

### Spanish Weekender for Real Beginners

Oct. 24-26, 20 hours over 2.5 days, cost: \$294.00 (GST included), textbooks and workbooks are included.

### Nature and Ecology

Call 306-966-5539 to register  
Churchill, MB Polar Bear Ecology Tour Nov. 6-13, four spots available, fee: \$2,604 including GST.

Southern Africa: 21-Day Northern Explorer Ecological Safari (Feb. 1-21, 2015) includes South Africa, Namibia, Botswana and Victoria Falls; two spots available, fee: \$5,668 plus airfare.

### Fall 2014 USCAD Art Classes

Painting Towards Abstraction II: Oct. 17-19/24-26  
Painting Towards Abstraction III: Oct. 17-19/24-26  
Glass Fusion I: Oct. 18-19  
Glass Fusion II: Nov. 1-2  
Silversmithing I: Oct. 24-26  
Advanced Silversmithing II: Nov. 14-16  
Off the Grid: Exploring Texture, Colour, Shine and Design: Nov. 21-23/28-30

### Community Music Education

Music in Early Childhood, Suzuki Early Childhood and Parenting with Music: classes begin in September. Private lessons in traditional guitar, Suzuki guitar, traditional piano, Suzuki piano, and violin also begin in September. For more information contact Nicole Wilton at 306-966-5625 or visit [ccde.usask.ca/community-music](http://ccde.usask.ca/community-music)

### Governance Essentials

The Johnson-Shoyama Graduate School of Public Policy and Brown Governance Inc. are offering Public Workshop: Governance Essentials Nov. 6 and 7 in Regina. This workshop will cover the basic elements of board governance. For more information and to register, visit [www.schoolofpublicpolicy.sk.ca](http://www.schoolofpublicpolicy.sk.ca).

### Edwards School of Business, Executive Education

For information call 306-966-8686, email [execed@edwards.usask.ca](mailto:execed@edwards.usask.ca) or visit [edwards.usask.ca/execed](http://edwards.usask.ca/execed)

Oct. 15 - 17, The Project Management Course  
Oct. 21 - Nov. 25, Leadership Development Program  
Oct. 30 - 31, Process Metrics, Management and Controls  
Nov. 3 - 4, Master Clinic on Solving Tough Problems  
Nov. 6, Women of Influence Breakfast  
Nov. 7, Managing Difficult Conversations  
Nov. 21, Emotional Intelligence: Another Side of Smart  
Nov. 26 - 28, Digital and Social Media Program: Metrics, Measurement and Analytics  
Dec. 1-2, Leadership for Managers and Supervisors  
Dec. 3 - 5, What the Non-Financial Manager Needs to Know About Financial and Managerial Accounting  
Dec. 10-11, Business Writing and Grammar Workout

## ■ The Arts

### Milne Exhibit

There will be a special viewing of *A World Closely Observed: The photography of Courtney Milne* in the Link Gallery in the Library Oct. 30 at 3 pm that will include a short program to launch the University Library's Courtney Milne website. The exhibition continues until the end of the year and includes prints of various sizes, copies of publications featuring Milne's photographs, memorabilia, awards, family photographs, one of Milne's cameras, and exhibition cards and posters.

### Gordon Snelgrove Gallery

Opening Oct. 14 is *Many Feathers Flock Together: Celebrating T-Bird*, an exhibition of work by Pamela Ollenberger. There will be a reception in the gallery closing day, Oct. 24, from 7-10 pm.

### Jazz Concerts

Dean MacNeill, professor of music and the artistic director of the Saskatoon Jazz Orchestra (SJO), will lead the group in two upcoming concerts. Tickets are available at the Broadway Theatre.

Oct. 26, 7:30 pm, Broadway Theatre, SJO and the Modern Jazz Guitar featuring guitarist Jim Head of Edmonton and guest conductors Darrin Oehlerking and Jennifer McAllister

Nov. 16, 7:30 pm, Broadway Theatre, SJO with Montreal Guests featuring Mike Rud on guitar, Sienna Dahlen on vocals, Chad Linsley on piano, Adrian Velady on bass and Dave 'Scooter' Lang on drums.

### ICCC Film Series

The Interdisciplinary Centre for Culture and Creativity film series continues Oct. 21 with a showing of *Carry on Sergeant!* at 6:30 pm at the Broadway Theatre. Keith Carlson from the Dept. of History and others will participate in a discussion following the film. Admission required.

### Expedition: Arctic

The Diefenbaker Canada Centre is hosting an exhibit from the Canadian Museum of History produced in collaboration with the Canadian Museum of Nature entitled *Expedition: Arctic*. Images and artifacts help visitors explore the goals, successes and drama of the Canadian Arctic Expedition of 1913-18, one of the world's last great journeys of discovery before the age of modern communication and airborne reconnaissance. The exhibit will be on view until January 2015.

### Elixir Ensemble

The Elixir Ensemble begins its season Oct. 19 at 2:30 pm in Convocation Hall with a performance of a Beethoven piano quartet, Mozetich scales and a Paul Joun piano quartet. Visit the Elixir website for details and tickets.

### STM Gallery

*Georgian Bay: Three Takes* featuring work by local artists Bridget Aitken, Nicki Ault and Jacqueline Faye Miller continues until Oct. 31. The exhibition pieces were inspired by the artists' trip to Georgian Bay in southern Ontario in the fall of 2013.

### Kenderdine Art Gallery

Continuing until Dec. 5 is *In Between History*, an exhibition of work by a number of artists whose work blurs the lines between familiar and fictive, allowing alternative readings to emerge. The show, curated by Leah Taylor, includes work by Vikky Alexander, Allyson Clay, Chris Cran, Paul Fournier, Angela Grossman, Mary Longman, Jayce Salloum, Tony Scherman and Douglas Walker.

### College Art Galleries

*Ursula Johnson: Mi'kwite'tmn (Do You Remember)* continues until Dec. 5. The exhibition examines ideas of ancestry, identity and cultural practice through Johnson's creation of non-functional forms from Mi'kmaw basketry.

### Amati Quartet and Friends

The U of S Amati Quartet will be performing a range of works with a number of local musicians in a concert entitled Amati Quartet and Friends Oct. 13 at 2 and 7:30 pm in Knox United Church. Tickets are available from the Remail Arts Centre. More information is available at [amatiquartet.usask.ca](http://amatiquartet.usask.ca)

## ■ Huskies @ Home

### Football

Oct. 23 vs. Alberta

### Men's Soccer

Oct. 11 and 12 vs. Winnipeg

### Women's Soccer

Oct. 18 and 19 vs. Regina

### Wrestling

Nov. 22, Huskie Invitational

### Women's Hockey

Oct. 17 and 18 vs. Alberta  
Oct. 24 and 25 vs. Calgary  
Nov. 14 vs. Regina  
Nov. 21 and 22 vs. Lethbridge  
Nov. 28 and 29 vs. MRU  
Jan. 16 and 17 vs. UBC

# Growth a challenge to province's water resources

MEAGAN HINTHER



Howard Wheater, director of the Global Institute for Water Security (GIWS) at the University of Saskatchewan and a Canada Excellence Research Chair.

SUBMITTED

Jan. 23 and 24 vs. Manitoba  
Feb. 14 vs. Regina

## Men's Hockey

Oct. 10 and 11 vs. Manitoba  
Nov. 7 and 8 vs. MRU  
Nov. 15 vs. Regina  
Jan. 3 and 4 vs. Lethbridge  
Jan. 9 and 10 vs. Calgary  
Jan. 29 and 30 vs. Alberta

## Volleyball

Oct. 17 and 18 vs. Alberta  
Nov. 7 and 8 vs. Calgary  
Nov. 28 and 29 vs. UBC  
Jan. 9 and 10 vs. Brandon  
Jan. 23 and 24 vs. Manitoba  
Feb. 6 and 7 vs. TRU

## Basketball

Nov. 14 and 15 vs. Winnipeg  
Nov. 21 and 22 vs. Victoria  
Jan. 16 and 17 vs. Regina  
Jan. 30 and 31 vs. TWU  
Feb. 13 and 14 vs. Calgary

## Miscellany

### CSB E-Campaign on now

Canada/Payroll Savings Bonds applications, changes and renewals are now available online as part of the Canada Savings Bonds (CSB) E-Campaign which continues until Nov. 1. As in previous years, the university is offering automatic payroll deductions to all monthly paid employees through this program. Complete details are posted on FSD's website.

### White Coat Ceremony

The College of Pharmacy and Nutrition will hold its 10th annual white coat ceremony Oct. 26 at 2 pm in Room 1150 E Wing Health Sciences. The event will feature an address by Julia Bareham.

### Used Book Sale

The Canadian Federation of University Women (CFUW) Saskatoon Inc. is holding its annual Mammoth Used Book Sale Oct. 21-23 from 9 am-8 pm at the German Cultural Centre, Cartright St. and Lorne Ave. The organization promotes education for women and awards over \$20,000 annually in post-secondary scholarship. The money raised at the book sale helps to fund these scholarships.

### CLS Tours

The Canadian Institutes of Health Research's THRUST (Training in Health Research Using Synchrotron Techniques) program will hold an open house at the Canadian Light Source to showcase health research in the facility Oct. 18 from 9 am-4 pm. Advanced registration is required; visit [fluidsurveys.usask.ca/s/CLS](http://fluidsurveys.usask.ca/s/CLS)

### MPH Practicum Poster Fair

The School of Public Health will host its annual poster fair showcasing the master of public health student practicum projects undertaken in 2014. The program runs from noon-3:30 pm Oct. 24 in the Health Sciences D Wing Atrium. Visitors are welcomed.

It's out of sight and for most, out of mind. Yet the water flowing unseen beneath the ground's surface across Saskatchewan is a vital natural resource for the province's future.

Many farmers rely on groundwater for both domestic and on-farm water supplies. Mining, and oil and gas industries draw from it to sustain their operations, and use it to dispose of contaminated water deep underground. Groundwater is an important water source for more than 150,000 rural Saskatchewan residents who drink it every day.

But with Saskatchewan's unprecedented growth and plans for new mines and energy projects, pressures for use of groundwater for water supplies and waste disposal are increasing.

"Growth is top on the Saskatchewan agenda, and groundwater is important across all sectors—agriculture, oil and gas, mining, and the growth of towns and cities," said Howard Wheater, director of the Global Institute for Water Security (GIWS) at the University of Saskatchewan and a Canada Excellence Research Chair.

"Yet we know little about this critical provincial resource and how to ensure that it is used sustainably," Wheater continued. "And typically people don't tend to think about groundwater until the wells run dry or become polluted."

According to a report commissioned earlier this year by GIWS and involving consultation with industry, government and academe, "there is an important need for new research and surveys to provide the basis for sound management in the face of increasing pressures."

Report author Denis Peach, an international water expert from the U.K., calls for more research into groundwater issues, greater co-ordination and accessibility to data gathered by companies and government departments, and a comprehensive plan to sustainably manage Saskatchewan's groundwater.

"Research is needed into a

wide range of issues including groundwater quality in private wells (an estimated 81,000 in the province), risks posed by injection of mining wastes into deep geological formations, and more mapping of the province's groundwater resources," Peach said.

While there are major challenges to measure the extent of groundwater resources and their quality, the natural "recharge process" of rainwater seeping into groundwater, and the long-term impacts of water withdrawals being made, Peach said it is important that the groundwater system be studied and managed as a whole.

He points out that groundwater is important in maintaining the base flows of rivers,

and in times of drought, groundwater "is undoubtedly the most important global reservoir we have to draw upon in such times of water scarcity."

He also notes that groundwater contaminants, once present, "can persist for decades or even centuries." About 40 per cent of rural wells in Canada have been found to be contaminated by nitrates and bacteria at levels that exceed drinking-water quality standards, according to Statistics Canada data.

Wheater said the Saskatchewan government and industry have done a good job of mapping the underground geology and gathering extensive data to make informed decisions, but much of the data are not centrally available and large scientific

uncertainties remain.

"The lack of groundwater research co-ordination is not unique to Saskatchewan—it is a worldwide issue," he said.

"As Saskatchewan is large and the underground systems complex, we are unsure of how sustainable our groundwater withdrawals are, how much water is available, and how deep waste disposals may be affecting the entire system."

Working with the provincial government, GIWS has taken a lead role to address the knowledge gaps identified in the report. An informal committee of hydrogeology and groundwater professionals is working to define priorities and on Oct. 1, the institute hosted a workshop with stakeholders from the petroleum, mining, agricultural and municipal sectors to develop a business plan around groundwater science in Saskatchewan.

"Our focus at the institute is on developing a partnership with government and industry to co-ordinate new groundwater research in the province, review the information that is being gathered, and make the results accessible," said Wheater. "This will help regulatory and management bodies make informed decisions on new licenses and where it is best for development to happen." ■

Meaghan Hinthier is a communications specialist with GIWS.

## WIN GREAT PRIZES BY SHOWING US HOW YOU EAT LOCAL

Celebrate with us all through October as we feature locally produced ingredients in our meals at Marquis Hall.

Show us your best eat local photos for a chance to win great prizes all through October.



Use #usaskeatslocal to enter!

See full contest info at [eatlocal.usask.ca](http://eatlocal.usask.ca)



Watch for our new locally grown logo to find meals prepared with local ingredients all year long.



SUBMIT  
Coming Events

Next OCN: Friday, Oct. 24  
Deadline: Oct. 16

Email [ocn@usask.ca](mailto:ocn@usask.ca)

# discover US

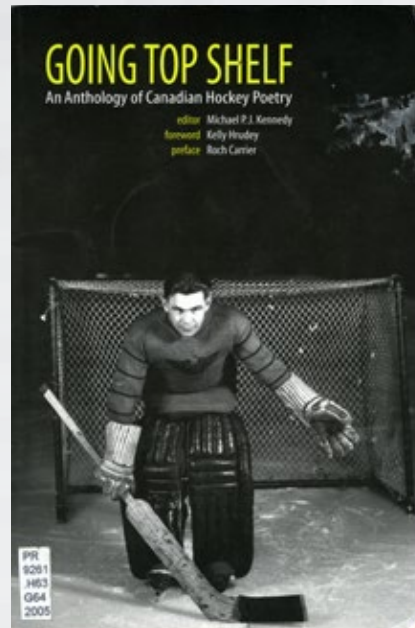
This year's back-page feature explores the hidden treasures from University Library, University Archives and Special Collections, and the people who use them.

## Hockey hound

**Michael P. J. Kennedy** has been a sessional lecturer for the Department of English since 1991. Much of his research for his ground-breaking hockey literature class and his ongoing scholarly exploration of the sport has taken place in the University Library, University Archives and Special Collections.

Indeed, a substantial amount of unique material contained in his book *Dogs on Ice: A History of Hockey at University of Saskatchewan* was found in hard copies of *The Sheaf*, *Greystone* and various other publications. Other archival material, including photographs of former men and women's Huskie hockey personnel and Rutherford Rink, were also an integral part of this endeavour.

Kennedy has made use of the university's archival resources for subsequent publications including historical articles for *University Cup* (2013 and 2014) and an article for the centennial of the College of Pharmacy and Nutrition. And he recently donated his Hugh Garner collection to the University Library, University Archives and Special Collections, a sign of the value he places in the unit.



### WORDS ON ICE

*A Collection of Hockey Prose*



Edited by Michael P.J. Kennedy  
Foreword by Dave King

