

3MT

Rebecca Stanton was one of almost 50 graduate students who took part in the first Three-Minute Thesis competition March 3 at the U of S. Each participant had three minutes or less to present their thesis research to a panel of non-academic judges. Developed by the University of Queensland in 2008, the competition is designed to teach graduate students how to condense and translate their dissertation thesis in a way that is understandable by non-experts. The competition was won by Erika Bachman whose presentation was entitled Making a little go a long way: Fertilizer microdosing for improved agricultural production in northwest Africa. Bachman now goes on to the regional finals in Victoria this spring.



COLLEEN MACPHERSON

Rethinking Kenderdine Campus

Development needs to include U of S access

COLLEEN MACPHERSON

A request for proposals (RFP) has been issued by the University of Saskatchewan to find someone interested in a business opportunity—develop a meeting and lodging facility at the moth-balled Kenderdine Campus at Emma Lake in exchange for some access and a long-term lease on the land.

The RFP was issued March 10 as an effort to find a financially sustainable plan for the campus that was established in 1935 with a focus on U of S arts and ecology activities in addition to community use. Programs at the campus were suspended in late 2012.

When that announcement was made, then acting vice-president of finance and resources Greg Fowler said millions of dollars in capital investment was needed at the facility to bring it up to operating standard, and “we simply don’t have the funds

at this time.”

It was also reported in 2012 that only about 200 students participated in programs at the campus that year, and that ceasing operations for three years in order to re-evaluate the facility would save the university \$500,000.

The RFP asks interested proponents to submit proposals for the 22-acre site based on a financially sustainable business plan, explained James Cook, manager of business opportunities in Corporate Administration. The U of S will provide a long-term lease on the property to allow the successful developer time to recover any investment, but Cook emphasized the winning project must ensure a degree of university access to whatever facilities are on site.

“We’ve provided a list of our desired uses in the RFP,” he said. “These include teaching



The Kenderdine Campus dining hall in 1964.

ARCHIVES A-9490

and learning, and research in areas like biology, soil sciences, art and art history, and music. We’ve asked for space for various studio arts, teaching and learning spaces that accommo-

date up to 40 people, sleeping and eating facilities, and outdoor activity areas.”

The process of reviewing the future of the Kenderdine campus since its activities were suspended

“They also have to demonstrate how they’re going to maintain the spirit of the campus as a place where the natural environment inspires its users.”

James Cook

has focused on academic opportunities and involved a group of faculty members co-led by Patti McDougall, vice-provost of teaching and learning, and Jack Gray, head of the Department of Biology. The group’s recommendations were integrated into the RFP.

See *Kenderdine*, Page 2

Kenderdine RFP closes May 7

From Page 1

“The winning proponent can make a lot of changes to the site—I imagine it would be primarily marketed as some other kind of facility than a university arts camp—but they need to tell us how they plan to accommodate the desired uses of the university,” said Cook. “They also have to demonstrate how

they’re going to maintain the spirit of the campus as a place where the natural environment inspires its users.”

Cook said the RFP, which closes May 7, is similar to ones issued for an ice facility and a hotel—the institution seeking an independent party able to design, finance, develop, build and operate facilities on its lands while still allowing the univer-

sity access for its own uses. In the case of the Kenderdine Campus, how the university compensates the operator of use of space will be up for negotiation, he said.

He added there is no way to predict what might result from the proposal request “but I know of two groups that have told us they’re interested in responding to the RFP, and they’ve been telling us that for a long time.” ■

One day
for us to learn to
lead the way

Undergraduate students Jordan McCool-Morin, Katyayni Agrawal and Briana Mackow put leadership into practice by organizing the IGNITE student leadership conference on February 28, 2015. Donor support of the President's Student Experience Fund helped cover the costs of the event.

On March 20, 2015, help more students hone their leadership skills by supporting the President's Student Experience Fund and your donation will be doubled!

give.usask.ca/oneday
#onedayforstudents #usask

Around the Bowl

The Saskatchewan Agriculture Graduates Association has presented an Honorary Life Membership to **Bryan Harvey**, who graduated in 1960. He returned to the U of S in 1966 where he held a number of positions in the Dept. of Plant Sciences and was a pioneer in barley breeding, particularly two-row malting barley.



Harvey



Innes

Robert Innes, a faculty member in the Dept. of Native Studies, **David McGrane**, professor in the Dept. of Political Studies at St. Thomas More College, and **Merle Massie**, adjunct faculty member in the School of Environment and Sustainability, have all received nominations for the 2015 Saskatchewan Book Awards. Innes' book *Elder Brother and the Law of the People: Contemporary Kinship and Cowesses First Nation* is up for two awards—the Rasmussen, Rasmussen and Charowsky Aboriginal Peoples' Writing Award and the Luther College

and University of Regina Arts Award for Scholarly Writing. McGrane is also nominated in the scholarly writing category for his book *Remaining Loyal: Social Democracy in Quebec and Saskatchewan*. The third book in that category is Massie's entitled *Forest Prairie Edge: Place History in Saskatchewan*. The awards will be handed out April 25 in Regina.



McGrane

A collaboration between nursing, dentistry and optometry has earned a group of individuals a national award for eHealth. The team consisting of **Jill Bally**, **Shelley Spurr**, **Lorna Butler** and **Mark Tomtene** from the College of Nursing, **Dr. Alyssa Hayes** from dentistry and ophthalmologist **Dr. Shahab Khan** received the 2015 Faculty Interprofessional eHealth Award from Canada Health Infoway. The focus of the network is educate students in patient-centered, interprofessional and collaborative care, in a technology-enabled environment.

A new science advisory panel set up by the Alberta Environmental Monitoring, Evaluation and Reporting Agency will include **John Giesy** from the Dept. of Veterinary Biomedical Sciences and the Toxicology Centre. The panel will review and validate provincial environmental programs and activities.

The following announcements have been made by the Office of the Provost and Vice-President Academic:



Gomis

Kerry Mansell appointed assistant dean in the Division of Pharmacy, College of Pharmacy and Nutrition for a three-year term starting July 1. Roy Dobson will continue in the position until then.

Dr. Susantha Gomis appointed acting head of the Department of Veterinary Pathology for a six-month term that runs until July 26.

Dr. Janet Hill appointed acting head of the Department of Veterinary Microbiology for a six-month term that began Jan 26.



Hill

Aaron Phoenix appointed associate dean, academic in the College of Engineering for the period Jan. 1, 2016 to Dec. 31, 2020.

Grant Stoneham re-appointed associate dean, Saskatoon Programs in the College of Medicine until Dec. 31, 2019.

Fred Remillard extended as associate dean, research and graduate affairs in the College of

Pharmacy and Nutrition until June 30, 2016.

Mehdi Nemati appointed interim head of the Department of Chemical and Biological Engineering until June 30.

BOARD OF GOVERNORS'

Campus Community Reception

Join the University of Saskatchewan Board of Governors for an informal reception at Louis' Loft. This is your opportunity to chat with your board members one-on-one.

Louis' Loft | Monday, March 23 | 4:30 – 6 pm

A complimentary refreshment and light snacks will be served.

RSVP by March 18, 2015 by visiting alumni.usask.ca/events/registration

Celebrating 3.1415926535897...

Mathematicians, physicists mark Pi Day

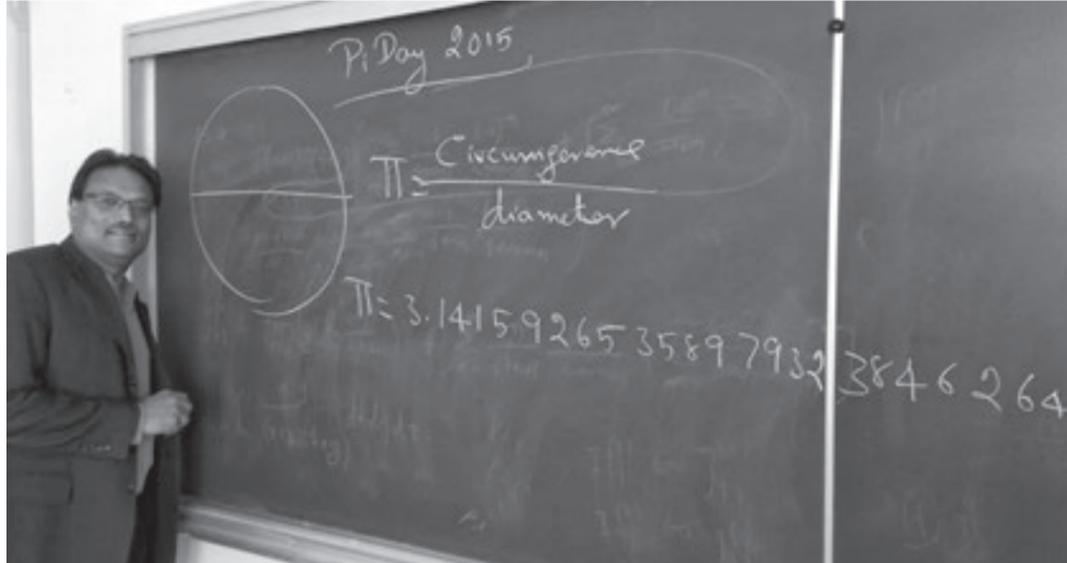
✍ MICHAEL ROBIN

Mathematicians, physicists, punsters and even construction workers may pause in their labours on March 14 to celebrate Pi Day in honour of a quirky little number whose significance is felt from the job site to particle physics.

"You need pi for anything to do with circles," said Raj Srinivasan, head of the Department of Mathematics and Statistics. "It also has a big role in trigonometry, angles and those sorts of things, and of course it definitely comes into geometry."

Srinivasan said this year's date is the ultimate Pi Day, which is celebrated on 3.14, the 14th day of the third month. But since this year is 2015, the date can be expressed as 3.14.15. Then add in the time—precisely 53 seconds after 9:26 am is 3.14.15.9.26.53, the first 10 digits of pi. It is a once-in-a-century event.

The concept of pi is simple: measure the distance around a circle to get its circumference. Measure the distance across the circle to get its diameter. Divide the first number by the



Raj Srinivasan, head of the Department of Mathematics and Statistics

DEVIN BACKMAN

second, and that is pi. Srinivasan explained that pi has been known since at least the ancient civilizations of Babylonia and Egypt. For centuries, it was approximated as somewhere between 3.12 and 3.16. It was not until the 14th century that mathematicians discovered more precise ways to determine the value of pi, which is actually

closer to 3.14.

Workers laying a circular patio will use pi to calculate how many bricks they need, or how much concrete to use for a cylindrical piling under the foundation of a building. It is also used to explore the foundations of the universe.

"Pi shows up all the time in physics, and in my area of theo-

retical particle physics there are factors of pi in almost every calculation," said Tom Steele, head of the Department of Physics and Engineering Physics.

Steele said that at one time, he was able to leverage the day with the local Bay store to get

free promotional pi-themed mugs, t-shirts and even samples of Givenchy's "π—the sign of intelligence" cologne. These would be given out around the department.

Minus the freebies, he and his colleagues "usually talk up Pi Day at the very least," decorate office doors, or engage in a little informal competition to see who can remember the most digits of pi. And physicists have a mnemonic to get them through the first 15 digits (3.14159265358979).

Steele explained: "The number of letters in each word represents the digit. Here it is: 'How I want a drink, alcoholic of course, after the heavy lectures involving quantum mechanics.'"

Pi's name also lends it to puns. For instance, πr^2 —the formula for calculating the area of a circle—is pronounced "pie are squared," to which the punster responds, "pie are not square, they are round." ■

Gieni smashing track records

✍ LESLEY PORTER

Aside from staying inside her own lane, competitive hurdler Muriel Gieni has an interesting strategy for ensuring she does not fall during a competition: she just doesn't.

"I don't fall," she said with a laugh. "It's never entered my head! I don't crash!"

It sounds like big talk, but Gieni, a facilities and projects assistant in the College of Arts and Science, is a serial record breaker in Canadian track and field. Her activities of choice? Triple jump, long jump and, of course, hurdles.

She started competing 13 years ago, when her son Morgan joined the Riversdale Track Club. Gieni sat and watched him for the first year, but the following year, the club coaches invited parents to participate alongside their children. Gieni, who was active in track and field during high school, played volleyball during her post-secondary years and stayed physically fit after that, was intrigued.

"I missed out on the track and field, which is where I should have been," she said. "Rather than sit in my car, I joined base training."



Gieni

“Every time you change an age group, you look at a new five years' worth of records to go after.”

Muriel Gieni

after," she said.

She set her first record in 80 metre indoor hurdles when she was 45 years old. Since then, she has broken 13 various indoor and outdoor records across three age groups.

But one record almost didn't happen.

At the Knights of Columbus Games in January at the Saskatoon Field House, Gieni broke the Canadian triple jump record on her first try. "I was pretty happy about it," she said. Her excitement was short-lived, however. After the preliminary measurement of 9.22 metres was done, a volunteer raked the pit to prepare for the next competitor before a national official could

She initially trained with younger groups at the track club and moved up as her fitness level increased. She then started competing provincially and then nationally as a masters athlete, a class of athletics for those age 35 and over.

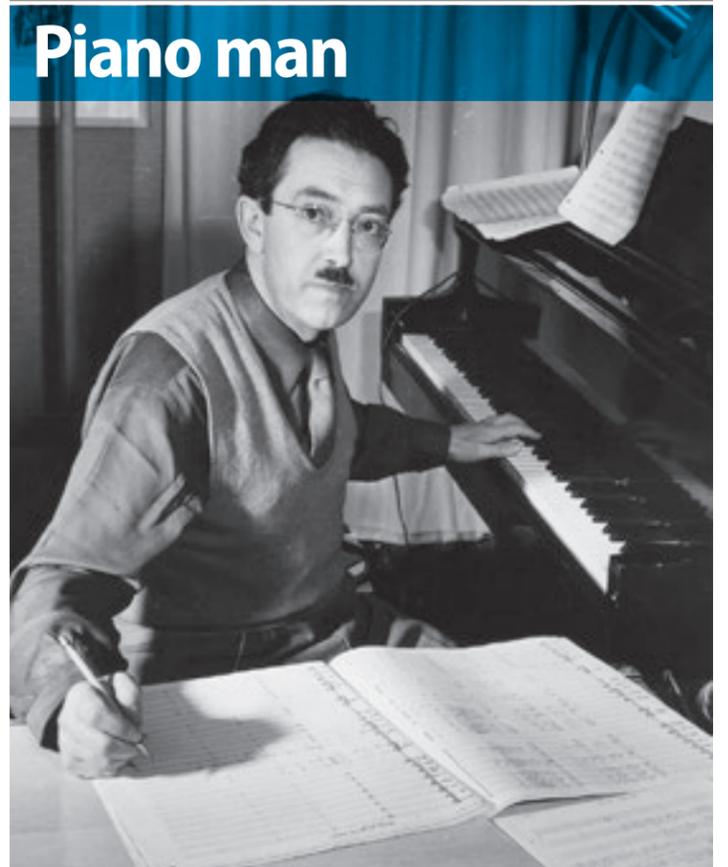
Masters athletes are a small group provincially, she explained, but are quite extensive at the national level. Every five years, the athletes progress to a new level based on their age (35-39, 40-44, 45-49, etc), which Gieni looks upon excitedly.

"Every time you change an age group, you look at a new five years' worth of records to go

See *Gieni*, Page 8

FROM THE ARCHIVES

Piano man



PATRICK HAYES, UNIVERSITY LIBRARY, UNIVERSITY ARCHIVES AND SPECIAL COLLECTIONS

A-4099

This issue's image is of Murray Adaskin composing at his piano in 1957. Born in Toronto in 1906, he began playing the violin at the age of 10. He studied in New York and Paris including periods of composition study with John Weinzweig, Charles Jones and Darius Milhaud. A violinist with the Toronto Symphony for 10 years, Adaskin also served as director of music for CP hotels. He was head of the music department at the University of Saskatchewan from 1952 until 1966, and then composer-in-residence from 1966 until 1973. The second appointment was a first among Canadian universities.

Adaskin, along with his first wife soprano Frances James Adaskin, were active in Saskatoon music circles; their legacy can be seen to this day. Among his many honours were Saskatoon's Citizen of the Year for 1970, a 1980 appointment to the Order of Canada and an honorary degree in music from the University of Saskatchewan in 1984. Adaskin retired to Victoria in 1973. He composed his final work in 2000, and died in 2002 at the age of 96. ■

NEW TO US



Darryl Falzarano

Darryl Falzarano's fascination with the world's deadliest pathogens has led him to some of the most secure research labs in North America, as well as to field work in Africa providing diagnostic lab services.

A specialist in virology and animal models of disease at VIDO-InterVac, Falzarano worked for a month in 2014 in Liberia during that African country's struggle with Ebola. It was a capstone of 10 years studying the disease, beginning at Canada's only containment level 4 facility in his native Winnipeg.

Falzarano initially went to the University of Winnipeg intending to become a doctor, but after completing a bachelor's degree in biology, a different track beckoned. He pursued the field of medical microbiology, which led him to graduate studies at the University of Manitoba.

A postgraduate position took him to the U.S. National Institutes of Health's Rocky Mountain Laboratories in Montana. There he investigated antiviral strategies against Ebola and an emerging disease, Middle East respiratory syndrome coronavirus (MERS-CoV). This included developing a new animal model for MERS-CoV and the first potential treatment. Unlike Ebola, MERS-CoV is level-3 pathogen, which presented an opportunity.

"VIDO-InterVac has a level-3 facility with the ability to do larger animal experiments, something that I really haven't done in the past," Falzarano said. "It was an exciting opportunity to move back to Canada as well."

Falzarano is now exploring next steps with MERS-CoV. While it is still uncertain precisely how the disease spreads, camels are thought to transmit it to humans, where it kills nearly 40 per cent of people infected. Camels are impractical for research—"they're hard to find in North America"—and expensive, but the alpaca may prove to be a useful stand-in.

So far, only a few cases of MERS-CoV have shown up in Europe, the U.S. and the Philippines but Falzarano said it "could be waiting until the right virus gets into the right person." In the age of air travel, that puts the disease only hours away from anywhere on Earth.

"(MERS-CoV) is not a Saskatchewan-specific problem, but if you care what goes on in the world, if you believe in the one-health concept, these problems need to be addressed." ■

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



SCIENCECARTOONSPLUS.COM

Citizen scientists take on the snow pack



Left to right: Emily Cavaliere, Michael Kehoe, Patricia Pernica, Willemijn Appels and Sun Chun. MEAGAN HINTHER

Ever looked at the mountains of snow and wondered how long the piles will take to melt come spring? Or pondered how the weather anchor person knows that it snowed 30 centimetres last night?

For a group of snow enthusiasts at the U of S Global Institute for Water Security (GIWS), questions like these led them to explore the dynamics of snow conditions in an urban setting.

"What we're doing is citizen science—where anyone can participate despite their background, take measurements and learn about scientific methods and their complexities," said Willemijn Appels, a postdoctoral fellow with GIWS and a participant on the project. "We all got together because we're interested in learning more about snow processes, particularly in Saskatchewan."

For the second year in a row, a group of volunteer graduate students, postdoctoral fellows and research staff are taking daily recordings of snow depths,

snowfall and snow density in the field across the road from GIWS headquarters at the Environment Canada National Hydrology Research Centre at Innovation Place.

The level of training and home country of each of the citizen scientists varied, and not everyone was familiar with the characteristics of snowfall or with the issues associated with measuring snow. It made for a dynamic team-learning environment.

"What started as a team-building effort to pull us through the long winter ended up sparking heated debates during lunch breaks," Appels explained.

The project is prompting the young scientists to explore field-monitoring practices with Environment Canada scientists and to understand values of continuous measurements.

"In order to make our daily dataset more reliable and improve our measurements of daily snowfall, we added a nipher gauge and wind meter to

this year's experimental setup," Appels said. A nipher gauge captures snow and is shaped like an upside down bell to reduce the amount of snow lost to wind. The snow is then weighed to estimate its water content.

One of the more interesting findings last year was that snow pack varies considerably in water content, from 10 to 30 per cent. Another was that it disappeared; daily snowfall amounts over the winter did not add up to the total amount measured in the snowpack by the end of the winter.

One of the challenges was consistent staffing. Volunteers are hard to find for weekends and public holidays, especially when temperatures plummet, but Appels said the team is confident they have a good coverage.

"Gaps in the rotating schedule are usually filled by some enthusiasts, even on New Year's Day," he said. "We hope this campaign will reach the same level of coverage as last winter and marks the start of an office tradition." ■



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*.

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Powerful water, powerful photos

MEAGAN HINTHER

The northern community of Cumberland House sits in the Saskatchewan River delta in a region that experiences the cumulative impact of water used by cities like Calgary and Saskatoon and diverted through dams. River channels, lakes and wetlands create a veined landscape with an abundance of wildlife. For those living in this downstream community, life is defined by water.

"The delta is literally everything to people that live here," said Renee Carriere, a teacher at the local Charlebois Community School. "It is language, home, history, roots, stories and knowledge. It is where we are born and are buried. It makes us who we are."

On February 6, students from Carriere's Grade Eight class visited the U of S to take part in the School of Environment and Sustainability's (SENS) annual Delta Day. The event draws attention to the importance of the ecosystem and highlights the school's research programs in

Canadian deltas.

The students travelled to Saskatoon to share photos they had taken of what the delta means to them as part of Photo-Voice, a youth engagement initiative between SENS and the school.

Carriere said it is important to work with youth in the delta and get them engaged in preserving their sense of place.

"We are a very proud community that trapped, hunted, fished and sustained itself quite well in the past," said Carriere. "We are transitioning to a future that is trying to combine the traditional and the contemporary ways of understanding the environment."

"A photo gets the dialogue going. It gives a voice. Everybody says 'wow, look at how beautiful the delta is'. And it gets students thinking: 'We need to keep that'," she added.

Evan Andrews, a SENS master's student, co-led the project with Carriere. In mid-fall, he sent disposable cameras to her class, and the students went out

in teams around the community.

"The Photo-Voice project helps young folks think about water and land and participate in environmental stewardship," said Andrews. "Our main question for them was 'what does water mean to you?'"

For Delta Day, three students travelled with Carriere to the U of S where they shared a photo with SENS faculty and students. "We really saw the youth build confidence throughout the multiple iterations of their

presentations," said Andrews. "You could hear the buzz in the room grow as time went on. The audience was able to interpret some of the photo at a glance, but wasn't able to interpret the full meaning of the photo without the dialogue exchange."

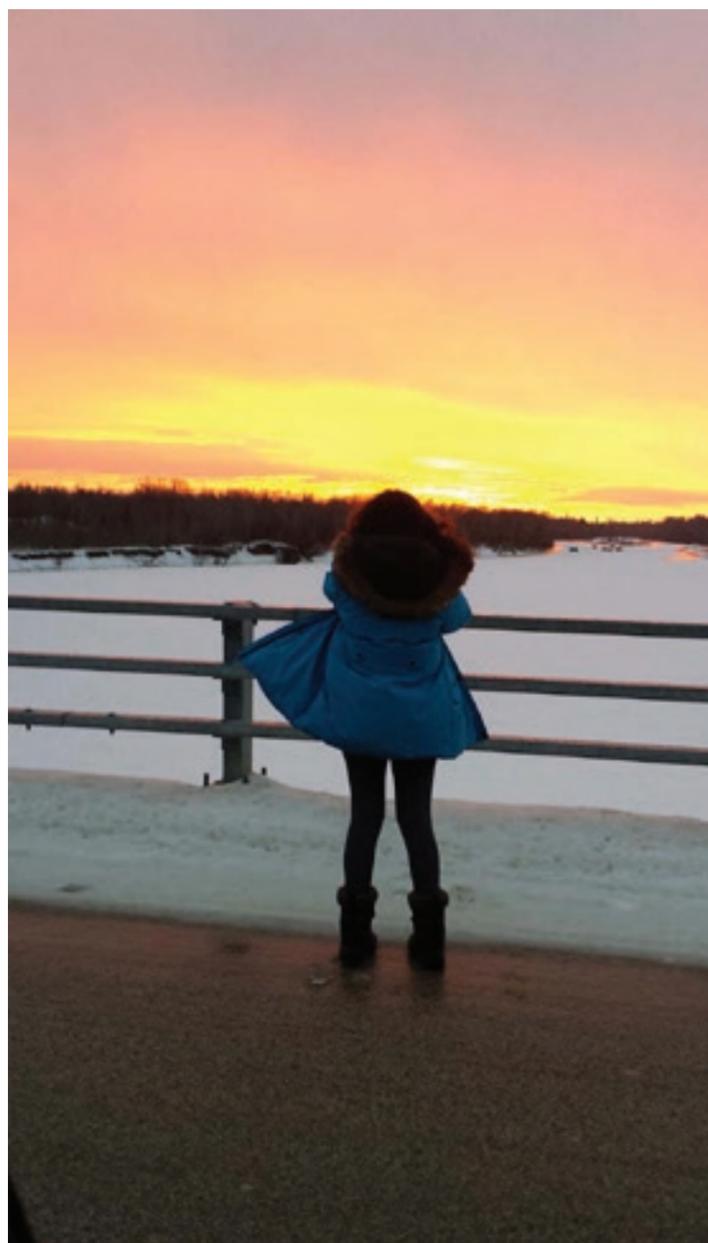
"The power of the photo is to get the dialogue going. And then people begin adding their voice to the conversation because they get excited," Carriere said.

Carriere plans to display the full suite of class photos around

the community. Right now, they are on display in her classroom and the students will be adding to the project as the snow melts and spring arrives.

"Photos help leave you with a history. A printed photo leaves an important legacy." ■

Meagan Hinthier is communications specialist with the Global Institute for Water Security and School of Environment and Sustainability.



One of the photos produced by Cumberland House students.





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Knowledge is beautiful campaign

✍ KRIS FOSTER

Knowledge is beautiful, and a new advertising campaign featuring U of S success stories is proving that statement.

With funding from the Provost's Committee on Integrated Planning (PCIP)—about \$400,000 in total—the marketing and communications team, led by Ivan Muzychka, associate vice-president of communications, recently launched an intensive campaign with an eye to building the university's reputation.

"We received PCIP funding some time ago, but the university was dealing with a number of issues so we delayed the campaign until now," said Muzychka of the launch of the awareness-building project in mid-February.

He explained the results from a perception survey conducted last spring during a change in the institution's senior administrators indicated that "the university was still very much respected, but we knew we had more work to do. The university is not defined by one



Muzychka

"The university is not defined by one incident; we are much larger than that and this campaign tells those stories."

Ivan Muzychka

lay terms to describe the work and why it matters to the average person.

The ads are running in *The Globe and Mail*, national magazines like *Maclean's* and *University Affairs*, and in targeted publications across Canada, will feature research and teaching with the aim to highlight U of S successes.

"Most people with an affinity for universities will likely know what we mean when we say, knowledge is beautiful," Muzychka said. "They will understand the feeling captured by the phrase so if we can get

incident; we are much larger than that and this campaign tells those stories."

The campaign revolves around the tag line Knowledge is Beautiful and how knowledge created at the U of S through teaching and research across all colleges and disciplines translates into solutions for everyone, he said. Print ads feature large images, the tagline and two sections of text: one that is a technical explanation of research, and one that uses



Knowledge is

The Canadian Light Source's Medical Isotopes Project (MIP) produces molybdenum-99 (Mo-99)—the parent isotope of Tc-99m—from the stable isotope, molybdenum-100 (Mo-100).

UNIVERSITY OF SASKATCHEWAN

their attention, we think we have an opportunity to make a point or two about the U of S and they will then at least be slightly more aware of us. We want to give them a thing or two to think about.

"Outside of Saskatchewan, awareness of the U of S and its strengths beyond agriculture is limited," he continued. "So we'll focus on water security, the synchrotron, work in vaccines and other areas we are really strong in."

The campaign will take place in two waves. The first will run until the end of March, and the second will begin in July. Complementing the paid advertising is an increase in media relation activities with more news releases being sent to targeted news outlets across Canada. There will also be an online component to the campaign that will feature the images and text.

"We've also refreshed the



banners on College Drive, the banners in the Regina airport, and we've put up a very large, very colourful display in the Saskatoon airport. These are all part of our awareness efforts."

Susan Walker
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A Vision for the Future: Ted Hsu, the Science, Technology and Post Secondary Education Critic, on the Liberal Vision



Dr. Ted Hsu, Liberal M.P. and Science and Technology Critic

Join Dr. Ted Hsu and the Liberal Party of Canada in Saskatoon for an evening colloquium and buffet dinner to discuss the current government policy on science and technology and to present a Liberal vision for the future.

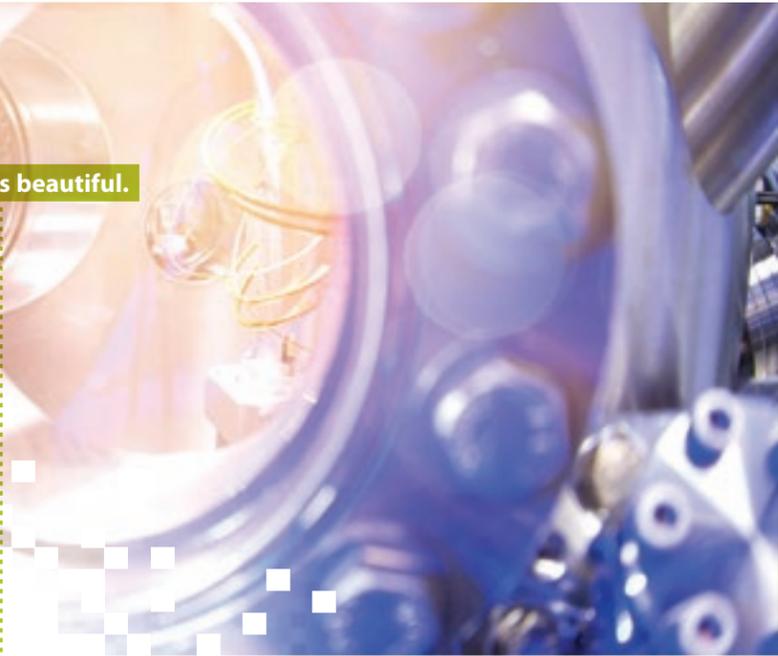
When: Thursday, March 19 at 6 pm. Doors open at 5 pm for drinks.

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Shown are some of the ads highlighting various disciplines appearing in select national and regional publications, part of a reputation-building campaign.

MARKETING AND COMMUNICATIONS

Knowledge is beautiful.

Recent findings, our Murray Pyke Chair in Geological Sciences, and the... In other words, thanks to a generous gift from the Pyke family... ways to explore for minerals for copper and gold, essential ingredients for electronics, computers, mobile, communication cables and other items you rely on every day.

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A follow-up perception survey will be done at the end of the second wave of advertisements to see how general awareness has changed.

“We are having a lot of fun profiling the university. This is very different from ads that say we’re the best in capital letters and exclamation points. We believe this campaign has a certain kind of subtlety and sophistication that is aimed at people who care about universities and university values.” ■

NEXT DEADLINE

Thursday, March 19, 2015

A Constitutional Right to Strike in Canada?

JOHN GORMLEY
Host of John Gormley Live; former Saskatchewan Member of Parliament; graduate of the University of Saskatchewan's College of Law; Queen's Counsel.

CHARLES SMITH
Assistant Professor, Political Studies, St. Thomas More College, University of Saskatchewan. B.A. (UNBC), M.A. (York), Ph.D. (York)

Did the Supreme Court of Canada get it right in SFL v. Saskatchewan?

THE LIVE DEBATE
March 25th, 3:30-5:00pm
STM Auditorium

Moderated by Daphne Taras, Dean of Edwards School of Business.

Hosted by

ST. THOMAS MORE COLLEGE
UNIVERSITY OF SASKATCHEWAN

stmcollege.ca

Ancient technologies in a digital world

MICHAEL ROBIN

For Yin Liu, the history of information technology begins before the invention of the transistor or integrated circuit chip, long before.

"It really is useful to look at the past when considering issues of the present," said Liu, an associate professor in the Department of English. "Here's a thousand years of research, development and usability testing that we can study and

learn from. Why would we not want to look at it?"

That thousand years is the Middle Ages, between the years 500 and 1500 CE. Liu, a medieval scholar, said historians of information technology tend to skip over that period as a time where nothing of import happened.

"The most common narrative I've come across is, 'well, people in Classical Greece

and Rome were really smart,'" she explained. "And then there were the Middle Ages and people didn't know anything.

Then they invented the printing press and that was the start of the Renaissance, and then they were smart again."

But a lot can happen in 1,000 years. "It's absurd to think



Yin Liu, associate professor in the Department of English.

MICHAEL ROBIN

that the way people thought and behaved and the way they perceived the world they lived in was the same in the year 1500 as it was in the year 500; of course it wasn't," she said.

By examining the strate-

gies people in the Middle Ages developed to handle information in her project entitled Medieval Codes, Liu hopes to uncover lessons that may inform

See *Past*, Page 9

Gieni motivated by coaches, teammates



Muriel Gieni competing in hurdles at the 2015 Knights of Columbus Games in Saskatoon.

LOUIS CHRIST

From Page 3

record the distance. Any sign of her record was erased.

Gieni tried to recreate the jump but to no avail. Disheartened, she thought about throwing in the towel early. "I thought, 'I'm done,'" she recalled. However, she went in for her sixth and final jump and "it was the best jump of my life." To no surprise, she broke the record again. This time, the rakers left her imprint in the dirt until an official could inspect it and

award her the Canadian record. "It was a real learning experience for all of us," she said with a laugh.

Gieni said she owes a lot to her coaches, who "have always treated me like one of the group," as well as to her teammates and fellow club members, who help keep her motivated.

"My teammates are important to me because I can set a national record on a Saturday and it's a big deal, but on Monday you're just one of the group again." ■

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Guy Vanderhaeghe

Award-Winning Author/Playwright, St. Thomas More Scholar.

Book Reading & Reception

Friday, March 27th

Doors 7pm - Reading 7:30pm
St. Thomas More College Atrium
College Drive & Bottomley Ave.

Daddy Lenin and Other Stories
(McClelland & Stewart)

Bestselling author Guy Vanderhaeghe will read from his soon to be released new book of fiction that captures his talent as a storyteller and insightful observer of the human condition.



ST. THOMAS MORE COLLEGE
UNIVERSITY OF SASKATCHEWAN
stmcollege.ca

Past can inform technology future

From Page 8

the present. As for the future, her research so far indicates it is far too early to predict how people will deal with information in the decades to come.

She explained technologies developed during the Middle Ages are in fact still in use today. One, putting spaces between words, was introduced as literacy came to the British Isles.

Latin writing before the 8th century took the form of scriptio continua, where all words were written in continuous lines with no breaks. It required special training not only to write but also to read aloud, which in most cases was its purpose, she said.

“You had people trying to read Latin whose language was not descended from Latin. There were a bunch of Irish monks, then Anglo-Saxons trying to read Latin text. So they grammaticalized it to make it easier to analyze and to read.”

Methods to help readers navigate through texts were also developed. Tabs began as physical markers, such as little leather balls that were attached to key pages. Text in different sizes and colours, such as decorated capital letters, also helped navigation.

Liu explained that even the beautifully elaborate, colorful

illustrations in many medieval manuscripts had a purpose: they were memory triggers to help the book’s owner find a familiar page.

“They’re designed to do that, so very often the images are strange or sort of bizarre, striking or amusing in some way. So, you would remember the picture of the funny little blue bird about a third of the way through the book, and it would help you quickly find what you were looking for.”

The asterisk had its start as one of a set of symbols called a signe-de-renvoi (literally, sign of return). A precursor to today’s footnotes and online hyperlinks, these were used to link comments like margin notes to the passage to which they referred. Some scribes did their page layout with extra space specifically for readers’ notes.

“There’s a history behind that kind of layout that tells you an awful lot about the way people were expected to read, about how they were expected to use these books,” Liu said.

Even a closer look at the much-vaunted printing press reveals the technology may have been revolutionary, but it was a couple of centuries in the making. Liu pointed out that printing required a complex set of skills and a team of workers to arrange every letter and layout the page, ink it, then

press it, dry the pages and bind the result into a book.

“When you think about it, that’s at least as time-consuming as writing it out by hand,” she said, particularly when several trained, professional scribes could be hired to produce multiple copies of a

book simultaneously.

“That’s a lesson for us as well. The digital age has only just started; I’m not that old, but when I was a student, I typed out my essays on a typewriter.

“There’s a lot of energy spent today on what this new digital world is going to look

like, but we’re barely 30 years into it. I think it’s far too early to tell. There’ve got to be things we can learn about how these technologies were developed that can be useful to us in thinking what kind of technologies we use today. We just have to ask the right questions.” ■



About the Presenter

Frances Peck has worked with words for over 20 years. She’s the author of *Peck’s English Pointers*, on the Language Portal of Canada, and a co-author of the HyperGrammar website. She has taught for the University of Ottawa, Simon Fraser University, Douglas College, and associations and organizations across Canada.

Grammar Boot Camp



Monday, April 27, 2015, 9:00 am – 4:00 pm
Western Development Museum, Saskatoon

About the Workshop

Want to flex your grammar (and punctuation and usage) muscles?

This intensive seminar will put you through the paces. Focusing on high-level errors—the ones that make it past editors and proofreaders and into print—this session will help you identify and fix the most puzzling mistakes in grammar, punctuation, and usage.

We’ll look at errors from a range of publications, discuss up-to-date approaches to eliminating them, and run through a series of challenging editing exercises. Feel free to bring in any difficult examples you’ve encountered on the job.

More Information

Email saskatchewan@editors.ca or visit us online at www.editors.ca/branches/saskatchewan.



EDITORS
SASKATCHEWAN



The Brendan Missal features knotted leather balls affixed to key pages for ease of reference, an innovation from the Middle Ages that has echoes in the tabs found in paper documents and web pages today.

UNIVERSITY ARCHIVES AND SPECIAL COLLECTIONS

Evidence for Democracy

presents a screening of the CBC documentary

silence of the labs

ARE FEDERAL CUTBACKS TO RESEARCH PROGRAMS DEPRIVING CANADIANS OF CRUCIAL INFORMATION?

www.evidencefordemocracy.ca

St. Thomas More Auditorium - Thursday March 19 - 7:30 pm

Federal Liberal MP and Science and Technology Critic Dr. Ted Hsu will host a discussion immediately following the presentation.

Illustration: © katecampbell.ca

No.	Issue Date	Deadline Date
14.....	March 27, 2015.....	March 19, 2015
15.....	April 10, 2015.....	April 2, 2015
16.....	April 24, 2015.....	April 16, 2015
17.....	May 8, 2015.....	April 30, 2015
18.....	May 22, 2015.....	May 14, 2015

OCN Publishing Schedule

Coming Events

■ Seminars/Lectures

Scott Banda Lecture

- March 13, 2 pm, Edwards School of Business Room 3, Scott Banda, CEO of Federated Co-operatives Limited, is receiving this year's College of Arts and Science Alumni of Influence Award and will deliver a lecture entitled Making a difference: Co-operating to build better communities

Classical, Medieval and Renaissance Colloquium

- March 19, 4 pm, St. Thomas More College Room 200, the Classical, Medieval and Renaissance Studies colloquium series presents Amie Shirkie and a lecture entitled Educating "new Schollers in the Schoole of Christianitie": the Communication Circuit of the Devotional Handbook

Public Lectures

Mel Hosain, professor emeritus of civil engineering, will present two public lectures:

- March 19, 2 pm, Mayfair Library, entitled The City of Sydney and the Blue Mountain National Park
- April 30, 2 pm, Mayfair Library, entitled Serengeti National Park and Ngorongoro Crater

When the Movies Go to War

- March 20, 7-9 pm, St. Thomas More College and the Saskatoon Peace Coalition present When the Movies Go to War. Film critic Gerald Schmitz discusses why and how so many war movies get made, citing recent examples of the genre, and examining the differences between documentary approaches and fictional narratives. This event is free and open to the public.

Veterinary Microbiology Seminar Series

- March 20, 12:30 pm, Room 2302 WCVM, Julie Wittrock, PhD graduate student, Department of Veterinary Microbiology, presents Adapting a cumulative effects approach for evaluating wildlife health

Fine Arts Lecture Series in Music

- March 14, 7:30 pm, Convocation Hall, James Cunningham, Florida Atlantic University, presents What is Tradition? First Nations/Native American Popular Music as Expressive Culture. This free event is open to the public.

9/11 in the Academic Community

- March 17, 3:30-5 pm, Neatby-Timlin Theatre (Arts 241), a public screening of the award-winning documentary *9/11 in the Academic Community* and discussion with its creator, Adnan Zuberi. Admission is free. Contact len.findlay@usask.ca for more information.

Freedom to Critique and Dissent

- March 18, 3:30-5 pm, Neatby-Timlin Theatre (Arts 241), a panel discussion entitled Bearing Witness: Freedom to Critique and Dissent in Canada Today will feature Adnan Zuberi; Janice Williamson, professor of English and film studies, University of Alberta; Tasha Hubbard, Dept. of English; and Emma York, a student activist with the Palestine Solidarity Network. Admission is free. Contact len.findlay@usask.ca for more information.

■ Conferences

Education Conference

2015 Think Indigenous: Inspiring change through Indigenous education practices and knowledge takes place March 18-20 in the College of Education and offers educators the opportunity to enhance their Indigenous knowledge. For information visit thinkindigenous.usask.ca

Leadership Conference

The Edwards School of Business presents the 2015 Leadership Conference: Sustainable Leadership – From Cliché to Crucial at TCU Place March 18. The conference will showcase Saskatchewan leaders' knowledge and expertise, as well as celebrate Canadian perspectives and practices on sustainable leadership. Keynote speakers include Naheed Nenshi, mayor of Calgary; Emechete Onuoha, vice-resident of Global Government Affairs, Xerox Canada; and Jim Hopson, president and CEO of the Saskatchewan Roughriders. Information and registration are available at leadershipconference.usask.ca

PSFaM Annual Meeting

The third annual Protein Structure, Function and Malfunction annual meeting takes place May 6-8 at the College of Medicine. Online registration and abstract submission is available at cmcf.lighty-source.ca/psfam/registration

■ Courses/Workshops

Mindfulness, Stress and Resilience

- March 21, 9-noon, Dr. Anita Chakravarti will conduct a Mindfulness, Stress and Resilience Workshop open to U of S faculty and staff. Registration fee is \$50, and meets the criteria as an eligible expense for the personal spending benefit. For further information and to register, contact Wellness Resources at 306-966-4675 or email wellnessresources@usask.ca

Edwards School of Business, Executive Education

For information call 306-966-8686, email execed@edwards.usask.ca or visit edwards.usask.ca/execed

- March 18, Leadership Conference
- March 20, ICD - Director's Education Program, Saskatoon/Regina
- April 14, Managing Difficult Conversations, Saskatoon
- April 22-23, Business Writing and Grammar Workout
- April 28-30, Professional Selling: Skills for Sales Success
- May 1-13, Digital and Social Media Program: Strategy and Tactics
- May 14, Digital and Social Media for Senior Managers
- May 21-22, Operational Excellence Certificate: Process Mapping and Process Improvement
- May 25-26, Operational Excellence Certificate: Analyzing and Improving Office and Service Operations (Lean Office)
- May 29-June 5, The Effective Executive Leadership Program - Waskesiu
- June 15-17, The Project Management Course - Regina

University Library Workshops

The University Library is offering two workshop series this term. All sessions are free and no registration is required. For more information please go to libguides.usask.ca/LibraryResearcherSeries

Library Researcher Series

- March 19, Using the DiRT (Digital Research Tools) Directory in your Research, 12-1 pm, Murray Library, Room 102
- March 26, Research Data Management, 12-1 pm, Murray Library, Room 102

Managing References Series

- March 17, EndNote Overview, 12-1pm, Health Sciences Library, Room 1430
- March 24, RefWorks, 12-1 pm, Murray Library, Room 161

Centre for Continuing and Distance Education

For more information, visit www.ccde.usask.ca or call 306-966-5539

U of S Language Centre

Call 306-966-4351 for information and to register

Multilingual Conversational Language Classes

- April 7 to June 8
 - French levels 1 to 7: \$210 (GST exempt)
 - Italian level 1 and 2: \$220.50 (GST included)
 - Spanish levels 1 to 5: \$220.50 (GST included)
 - German level 1 and 2: \$220.50 (GST included)
 - Japanese for the Traveller: \$241.50 (textbook and GST included)
 - Cree level 1: \$231 (class materials and GST included)
- Textbooks and workbooks are extra (excluding Japanese for the Traveller and Cree 1).
- French Voyageur for Real Beginners
 - Ideal for the traveller who has little or no French-speaking skill, Aug. 14-16, 20 hours over 2.5 days, cost: \$280 (GST exempt) textbooks and workbooks are included.
 - One-Week Intensive French Immersion
 - For those who wish to quickly advance their language skills, Aug. 17-22, 35 hours over 5.5 days; cost: \$550 (GST exempt) materials and final luncheon provided.
 - Four-Day Intensive Cree Immersion
 - Ideal for those who wish to quickly advance their language skills, Aug. 17-21, 20 hours over 4 days; cost: \$4000 (plus GST) course materials provided

Nature and Ecology

- Endangered Species Ecology Day Camp
- April 6-10, 9 am-4 pm, Room 306, Williams Building. A science-enriched camp focusing on endangered species from Canada and around the world. Fees: \$275 plus \$25 for before and after care (8-9 am and 4-5 pm).
- Summer Ecology Day Camp for Kids
- Camps focus on outdoor experiential learning at field sites around Saskatoon and in a biology lab. Registration opens Feb. 9; call 306-966-5539 or 306-966-4351. Visit ccde.usask.ca/eco/ecology-camps-kids for more information.
- Camp 1 - June 29-July 3, Bird Banding
- Camp 2- July 6-10, Dinosaur Ecology
- Camp 3- July 13-17, Marine Mammal Ecology
- Camp 4- July 20-24, Insect Ecology
- Camp 5-July 27-31, Dinosaur Ecology
- Camp 6- Aug 4-7, Wetland Ecology
- Camp 7- Aug 10-14, Marine Mammals
- Camp 8- Aug 17-21, Insect Ecology
- Camp 9-Aug 24-28, Endangered Species
- Fees: 5-day camps \$275; 4-day camps \$225; junior leaders \$ 275 for 5-day camp, \$225 for 4-day camp (must have been a previous camper). Before and after care add \$25 (\$20 for 4-day camp).

Gardening at the U of S

For more information see gardening.usask.ca or call 306-966-5539 to register.

- April 18, 9-noon, Gardening 101: Spring with author and CBC commentator Lyndon Penner, \$44.95 plus GST
- April 18, 1-4 pm, Chemical Free Gardening – Sponsored by City of Saskatoon, Registration is FREE
- April 18, 1-4 pm, Advanced Gardening with author and CBC commentator Lyndon Penner, \$44.95 plus GST
- April 19, 9-noon, Mysterious Bulbs with author and CBC commentator Lyndon Penner, \$44.95 plus GST
- April 19, 1-4 pm, Antique Vegetables with author and CBC commentator Lyndon Penner, \$44.95 plus GST

Community Arts, USCAD/AYAP

- Glass Fusion II, March 21-22
- Watercolour I and II, April 10-12/17-19

Community Music Education

- Registration is now open for Spring classes for ages 0-36 months that begin in April, and for summer camps for ages 3-6 years. For more information call Nicole Wilton at 306-966-5625 or visit ccde.usask.ca/community-music

■ The Arts

Collective Observation

The 10th annual USCAD instructors' and certificate students' exhibition, this year entitled *Collective Observation*, can be seen in the St. Thomas More Gallery until April 25.

SJO in Concert

Dean McNeill, music professor and artistic director of the Saskatoon Jazz Orchestra, will lead the ensemble in a performance April 12 at the Broadway Theatre that features Denzal Sinclair, one of the country's most popular jazz vocalists. Tickets are available at the Broadway Theatre or online at broadwaytheatre.ca

Band Concerts

- March 20, 7:30 pm, St. Joseph High School, the U of S Wind Orchestra will perform works by Broder, Cable, Gilliland, Hahn, Raum and Reed in a concert entitled We Are Something Beyond Excited. Admission \$10; \$5 for students and seniors. For more information contact Darrin Oehlerking at darrin.oehlerking@usask.ca
- March 21, 7:30 pm, Quance Theatre, the University of Saskatchewan Jazz Ensemble will perform under the direction of Darrin Oehlerking. Admission \$10; \$5 for students and seniors. For more information contact Darrin Oehlerking at darrin.oehlerking@usask.ca
- April 2, 7:30 pm, Quance Theatre, the U of S Concert Band, under the direction of Glen Gillis, will perform a spring concert featuring a variety of works by Percy Grainger, Dmitri Shostakovich, Samuel Hazo, Charles Gounod, and Canadian composers Howard Cable and Paul Suchan. Admission by silver collection. For more information contact Glen Gillis at glen.gillis@usask.ca

Persuasion

The STM Newman Players present *Persuasion*, adapted by Jon Jory from the novel by Jane Austen and directed by Ian Elliott, March 13-14 at 7 pm and March 15 at 2 pm. General admission \$10; students, seniors and children \$5. Tickets are available online, from St. Thomas More College (306-966-8900), and at the door.

Amati Quartet Concert

The Amati Quartet will perform in concert with pianist Samuel Deason on March 21 at Knox United Church at 2 and 7:30 pm. Tickets are \$30 adults, \$25 seniors and \$15 student and are available from the Remai Arts Centre at 306-384-7727 or amati-quartet.usask.ca

Disney Extravaganza

The STM Newman Sounds Glee Club presents Disney Extravaganza March 28 at 7:30 pm and March 29 at 3 pm at the Broadway Theatre. The performance features songs from *Frozen*, *Lion King*, *Little Mermaid*, *Hercules*, *Toy Story* and many other Disney movies. Tickets are available online at picatic.com/disney or from the Broadway Theatre Box Office (306-652-6556). Tickets are \$15 (adult) and \$5 (child); specially priced family packs available.

1812 Exhibit

The Diefenbaker Canada Centre presents *1812 One War: Four Perspectives*, a travelling exhibition produced by the Canadian War Museum. The exhibition continues until June 21. Check the centre website for opening hours.

The Music of Saskatchewan

Curator Carolyn Doi has assembled an exhibition entitled *The Music of Saskatchewan*

that explores the diversity the province's musical history through the work of local artists, composers and producers, artifacts, sheet music, sound recordings and print monographs. The exhibition can be seen in the Link Gallery in the Murray Library until March 27.

In The Making

In The Making, a group exhibition of work by Alberta College of Art + Design alumni will be on view in the College Art Galleries until April 11.

Kenderdine Gallery

Continuing until April 17 is and Frank Pimentel exhibition entitled *Dunlands Restaurant*.

■ Miscellany

Research Journal Launch

There will be an event March 30 from 3:30-4:30 pm in the Murray Library Collaborate Learning Lab, Room 145, to launch Volume 1, Issue 2 of the *University of Saskatchewan Undergraduate Research Journal*. The journal is an online, faculty-reviewed scholarly journal featuring original work by University of Saskatchewan undergraduate students.

World Water Day

The Global Institute for Water Security is celebrating World Water Day and advances in water research at the U of S on March 20 starting at 1:30 pm at the Diefenbaker Canada Centre. There will be a number of presentations and a student and post-doctoral fellow poster competition. More details are available on the institute website.

Research Symposium

The School of Environment and Sustainability is hosting a research symposium to showcase student projects March 27 from 8:30 am-4:30 pm in Room 1004 Education Building.

WCVM Graduate Student Poster Day

Posters will be displayed on the second floor of the WCVM on March 17 and 18. Graduate students will be on hand to answer questions about their research projects on March 18 from 12:30-1:30 p.m.

Research Day

Sign Posts and Stepping Stones in Graduate Research is the title of this year's Life and Health Sciences Research Day being held March 13 in the D Wing atrium of Health Sciences Building. The keynote speaker is Jane Alcorn, professor of pharmacy. The event runs from 8 am-5 pm. For more information go to medicine.usask.ca/research

University Club

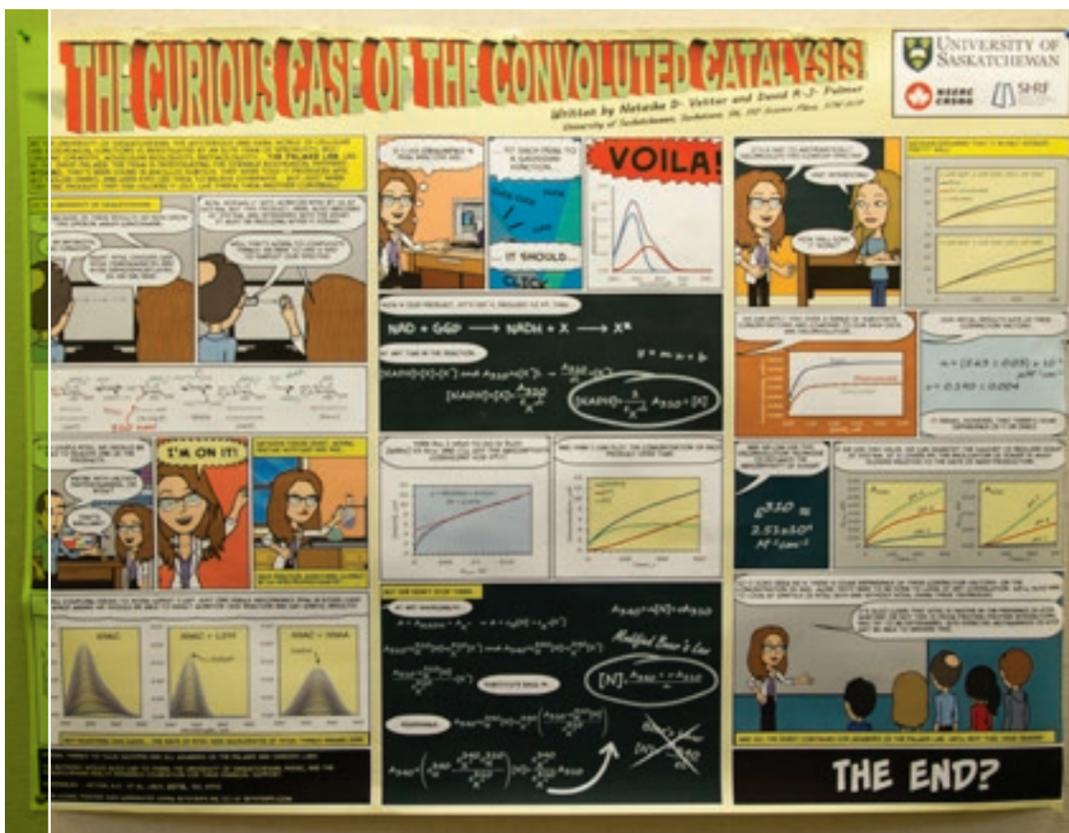
- For information about upcoming events, visit usask.ca/uclub or call 306-966-7775
- March 27: Dinner Theatre with Greystone Theatre. Dinner at the club and a short walk to Emrys Jones Theatre for Greystone's production of *Coram Boy* The play is infused with music from Handel's *Messiah* performed by a live choir.
- April 17: Chef's Table Spring Menu Evening

➤ SUBMIT

Coming Events

Next OCN: Friday, March 27
Deadline: Thursday, March 19

Email ocn@usask.ca



KRIS FOSTER

COMIC STRIP CHEMISTRY

Master's of science student Natasha Vetter had a novel idea for a recent research poster—convey the information in comic strip style with characters representing herself and her co-researcher, David Palmer, head of the Department of Chemistry. Palmer's response? "I said why not." Vetter used a website that integrated The Curious Case of the Convoluted Catalysis! into the strip format and generate the characters which, according to Palmer, bear an uncanny resemblance to the real people. The poster took top prize at a recent medical chemistry conference and the two will continue to publish but not in graphic novel form, Palmer said.



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University Library Dean's Award for Excellence

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Awards Information

The Awards Nominate an individual or a team who has demonstrated exemplary service/work toward fulfilling the library's mission.

The Criteria All library employees holding continuing appointments are eligible for nomination.

All members of the University Library community (e.g. library employees, patrons, suppliers, etc.) are invited to submit nominations for the award.

The nomination form may be submitted by an individual or group.

More information on the award and appropriate nomination forms can be found at library.usask.ca or by contacting the Executive Assistant to the Dean at library.ea@usask.ca or 966-6094.

Completed nomination forms must be marked confidential and submitted to the Library Executive Assistant no later than the last working day in March.

library.usask.ca/info/initiatives/deansaward.php



The Campus Sustainability Revolving Fund

Finances sustainability initiatives on campus

Resulting utility savings return to the fund to help it grow

The first approved project will upgrade the Gordon Snelgrove Art Gallery's lighting system using LED equivalents.

For more information and to see if your sustainability idea could be funded, visit the Office of Sustainability's website at sustainability.usask.ca.



sustainability.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.

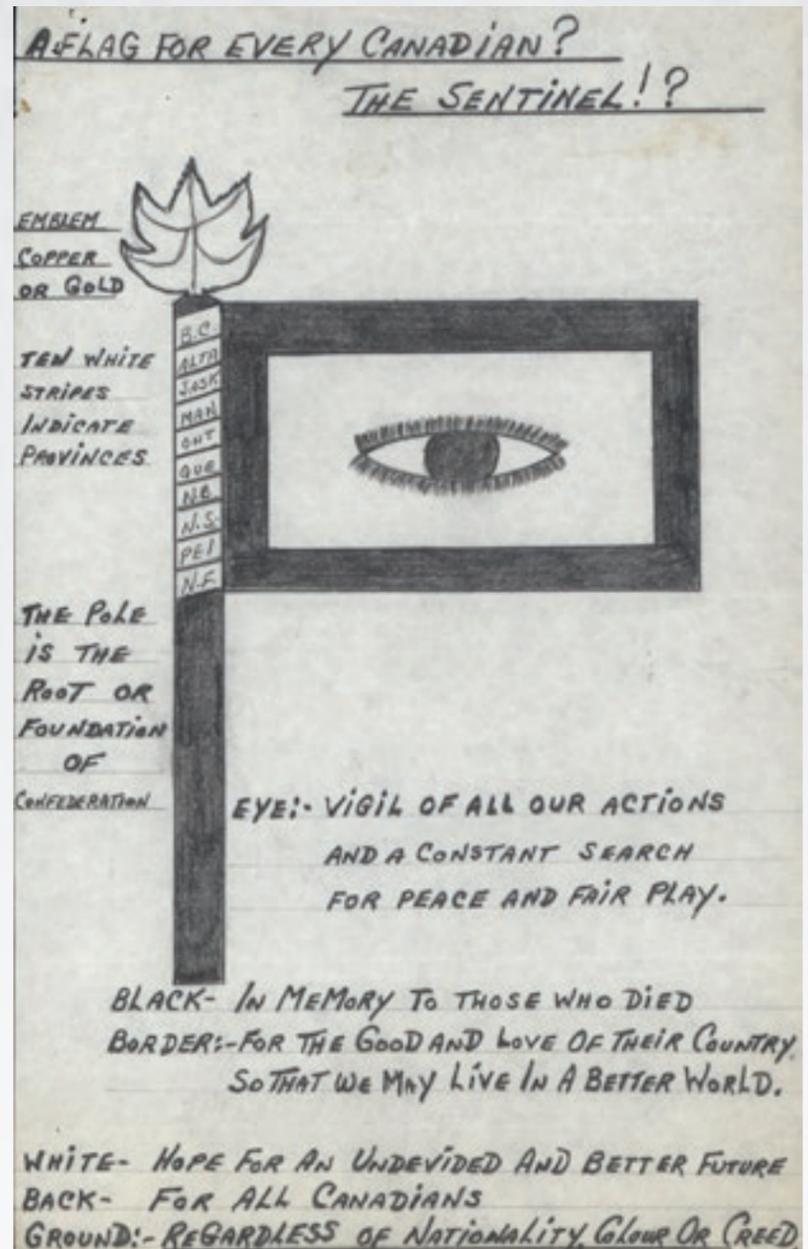
The great flag debate

There is a wealth of material in University Archives and Special Collections in the University Library related to the celebration of anniversaries, many involving the university's colleges and departments, some notable research achievements, and this year in particular, the start of World War I. This year also marks the 50th anniversary of another event that has resulted in a flurry of requests for archival material: the formal adoption of the new Canadian flag on Feb. 15, 1965.

During the debate that raged between 1964-1965, Canadians by the thousands submitted designs for a distinctive flag. Many of these were sent to John Diefenbaker, then leader of the opposition, and the submissions form part of the Diefenbaker archival collection.

Requests to University Archives and Special Collections for flag designs began in March 2014 when CTV staff was working on a segment for the show *W5* about the untold story behind the flag that unified Canada. The number of similar requests for images has not abated. Textbook editors, the *Toronto Star* and the *National Post* have all been in touch looking for flag images, as has Government House in Regina and staff from the Argyle Museum in Manitoba, which is preparing for an exhibit in the Manitoba Legislature. In addition, a few individuals have wondered if family members might have been responsible for some of the designs.

Whatever else one might see in these images, which are actual flag designs from the Diefenbaker collection, they are heartfelt depictions by citizens about their country, and they continue to evoke a response.



An array of flag design submissions.

