

QUEEN OF THE COURT

Lisa Thomaidis, head coach of the U of S Huskies women's basketball team, prepares her players to take on the University of Northern British Columbia Timberwolves Jan. 31 at the PAC. Thomaidis was recently named one of Canada's most influential women in sport and physical activity, another accolade in the long list she has collected over her career playing and coaching basketball at the local, national and international level. A profile of Lisa Thomaidis is on Page 5.



JOSH SCHAEFER PHOTOGRAPHY

The One Health initiative

Tackling human-animal-environment issues

COLLEEN MACPHERSON

A growing awareness that the health of humans, animals and the environment are inextricably linked has sparked a flurry of activity in one of the University of Saskatchewan's signature areas of research.

One Health, a worldwide strategy for expanding interdisciplinary collaborations in all aspects of health care for humans, animals and the environment, was identified in 2010 as an area where the U of S has potential to develop eminence nationally and internationally, explained Dr. Bruce Reeder, professor in the Department of Community Health and Epidemiology and co-leader of the One Health initiative. "We at the U of S have especially good capacity to move that field forward," he said, pointing to the university's full complement of health science disciplines, including veterinary medicine

“ There's considerable excitement around One Health and a growing realization that the complex problems in our world require the expertise of many disciplines and communities working together.

Dr. Bruce Reeder

and its graduate schools, as well as excellent researchers and research groups in this area.

"Increasingly, human and animal public health professions are recognizing that the health issues we face are complex and interrelated, and that there are no single solutions but rather interventions need to occur at multiple levels to be effective," said Reeder, adding that about 70 per cent of emerging and re-emerging diseases are shared between animals and humans, SARS and avian influenza being

two examples.

To capitalize on the university's strengths in human, animal and environmental health, Reeder and Dr. Hugh Townsend, professor of large animal medicine in the Western College of Veterinary Medicine (WCVM), have been seconded to the office of Karen Chad, vice-president of research and executive sponsor of the initiative, to stimulate and co-ordinate One Health activities on campus.

See *Chairs*, Page 9



Dr. Bruce Reeder, left, and Dr. Hugh Townsend are co-leaders of the university's One Health initiative.

COLLEEN MACPHERSON

INSIDE



FOOD FIGHT 6



BUSINESS VIEW 8

Science on stage

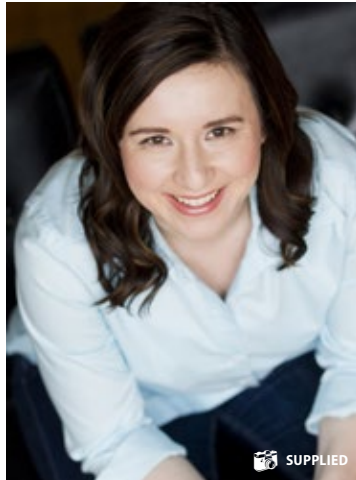
Drama used to share research results

MICHAEL ROBIN

After a series of intensive, multi-stakeholder, multi-method workshops on water security in the Saskatchewan River basin, Graham Strickert was happy to present his results. He was not, however, satisfied with how they were received.

"We presented results to stakeholders, and they were interested and encouraging," said Strickert, who works with the Global Institute for Water Security (GIWS) and the Changing Cold Regions Network, both headquartered at the U of S. "But I left with this feeling we need to do something different, we need to engage people with our research results in a different way, in a way that's more active and that's not—for lack of a better term—death by PowerPoint."

He brought the puzzle home with him, and discussed it with his wife, Lori Bradford, a post-doctoral research fellow at the School of Environment and Sustainability. Her suggestion:



Natasha Martina, director of *Downstream*

why not a play? After all, the U of S has an accomplished Department of Drama.

"Science has its own language, but art speaks to everyone," Bradford said.

Strickert pitched the idea to colleague Doug Clark, U of S Centennial Chair in Human Dimensions of Environment and Sustainability (SENS). Clark suggested such a project would be a perfect fit for the Connections grant program of the



Graham Strickert (centre) guides members of South East Alberta Watershed Alliance at a workshop exploring issues in water security.

MEAGAN HINTHER

Social Sciences and Humanities Research Council of Canada (SSHRC). After some hard work to meet the snug grant deadline, Strickert, Clark and associate professor of drama Natasha Martina secured the grant. *Downstream*, the play was born, with Bradford as co-ordinator of the project.

A collaboration between GIWS, SENS and the U of S Department of Drama, *Downstream* is written by award-win-

ning Cree playwright Kenneth T. Williams, currently playwright-in-residence in the department. The work is intended to provide an innovative way to not only convey research knowledge but get people to consider how they might use that knowledge.

Martina explained that *Downstream* will be presented as forum theatre, a format that invites audience members to make decisions as the story

progresses. For example, should authorities breach a levee and flood land to save a community downstream? Who bears the effects of decisions made upstream?

"This medium leads to dialogue which would not necessarily happen with written media," she said. "We get people involved with the discussion."

While she is familiar with

See *Play*, Page 9

PotashCorp

CIS
U of S
MEN'S HOCKEY
UNIVERSITY CUP

PRESENTED BY
CO-OP

ONE GOAL
March 20-23, 2014
universitycup.ca

Merchandise now available

The Huskie Store and U of S Bookstore locations are proud providers of 2014 University Cup merchandise. Shop any of our locations or online for a great lineup of official University Cup and Huskie hockey clothing.

UNIVERSITY OF SASKATCHEWAN | usask.ca/bookstore

Retrofit saves litres and dollars

✍ KRIS FOSTER

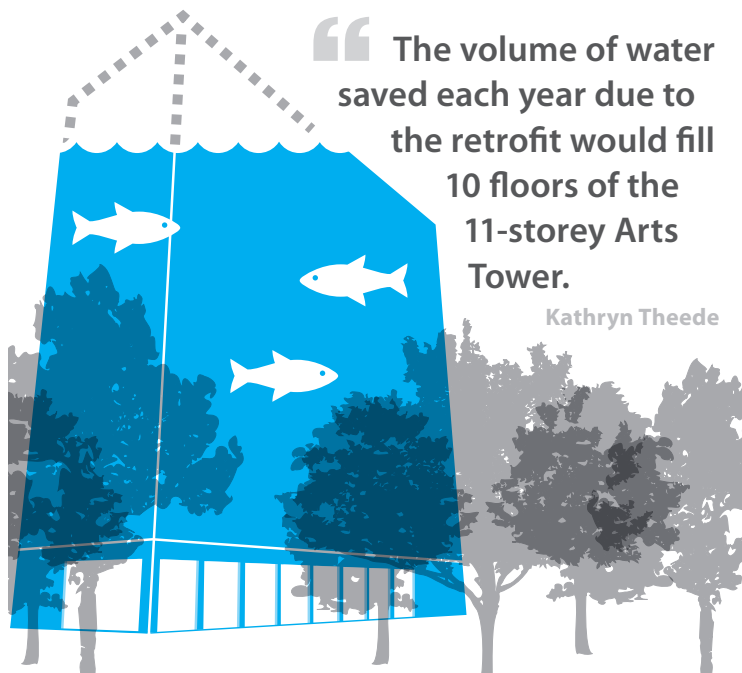
A water-conservation project in the College of Education has saved millions of litres, not to mention thousands of dollars, in just over a year.

Back in September 2012, 63 toilets were replaced in the Education Building, and 10 urinals were retro-fitted with programmable logic control sensors, explained Kathryn Theede, energy and emissions officer in Facilities Management Division (FMD).

“From September to the end of January 2014, 22 million litres of water have been saved. That is an annual savings of 18.5 million litres and more than \$35,000 just in the Education Building,” said Theede.

The old-style of toilets, she explained, were designed to use about 22 litres of water per flush, whereas the new models use four to six litres per flush, or about one-quarter the amount of water as the previous fixtures. The urinals were outfitted with sensors that must be activated for at least six seconds before the urinal will flush. Each set of urinals, prior to this retrofit, would drain a three-gallon tank every five to 20 minutes all day, everyday.

The Education Building was



“The volume of water saved each year due to the retrofit would fill 10 floors of the 11-storey Arts Tower.

Kathryn Theede

a great pilot because it is a stand-alone building, Theede said. “We were able to install metering technology that allows us to measure consumption every 15 minutes. We benchmarked the daily consumption in 2011-12 prior to the retrofits which allows us to calculate savings.”

Theede said the volume of water saved each year due to the retrofit would fill 10 floors of the 11-storey Arts Tower.

“This project has reduced water use in the building by 48

per cent,” she said, adding the total cost for the upgrades was \$103,000, which will be covered in slightly less than three years based on the annual cost savings.

“This is a success, and we’re looking at other buildings on campus where we can implement similar projects, but we’re just investigating right now.”

Theede ran some estimates on potential savings if these upgrades were made across campus, and “it could be 200 million litres of water and about



Kathryn Theede, energy and emissions officer

✍ KRIS FOSTER

\$400,000, per year.”

She said the recently approved Campus Sustainability Revolving Fund could help finance similar retrofits on campus, and that FMD will continue to investigate potential sites for these upgrades.

“The university has identified that sustainability is a priority, and energy and water conservation are key aspects of that. Saving resources is environmentally responsible and also saves us money. It’s a win-win for the U of S.” ■

FROM THE ARCHIVES

Pentathlon powerhouse



✍ PATRICK HAYES, U OF S ARCHIVES

A-4822

Scholarship campaign launched

A \$4-million campaign is underway at the University of Saskatchewan to provide increased scholarship support for students to recognize their innovation and excellence, and to help ensure financial hardships do not present a barrier to post-secondary education.

The Innovation and Opportunity Matching Campaign was announced Feb. 4 by Heather Magotiaux, vice-president of Advancement and Community Engagement, who said the effort is designed “to significantly expand the support this institution, its government partner and its donors can provide our students.”

The campaign will take advantage of a provincial government program that matches scholarship money raised by the university to a maximum of \$2 million per year. Funds provided through the Saskatchewan Innovation and Opportunity Scholarship program go to student awards earmarked for areas of innovation and strategic priority for the U of S including biotechnology, the environment, engineering, medicine and science. The government set up the program in 2011 and distributes \$3 million annually to post-secondary institutions across the province.

In the 2012-13 school

year, \$2 million raised by the university and \$2 million in matching provincial funds provided financial support to about 1,500 U of S students, said Patti McDougall, vice-provost of teaching and learning. Those students represent seven per cent of the university’s undergraduate population and 10 per cent of its graduate students.

“We are thrilled at the number of students who received much-needed financial support through this innovative matching program in the last year, and we look forward to seeing that number grow,” said McDougall.

The fund-matching program provides entrance and continuing scholarships in programs across campus as well as scholarships for graduate students and Huskie athletes. There is also support made available for Canadian students studying abroad and foreign students studying at the U of S.

Magotiaux said the success of the matching program so far will help donors recognize “the added value their donation will have on students when their support is doubled through the new Innovation and Opportunity Matching Campaign. It will be another example of how important donors and partners are to our students and their university experience.” ■



Students David Saunders, left, and Dijana Sneath spoke at the launch about their experiences as scholarship recipients.

✍ DAVID STOBBE

LETTER

Administration cuts suggested

At least one professional body has recently provided a detailed analysis of the work of the TransformUS task force and the alleged budgetary crisis at the U of S.

On the basis of solid data, sound reasoning, and graphs, this same body questions the necessity of cuts based on a mythical deficit of \$44.5 million because assumptions about rising expenditures have been less than forecasted.

While we believe they have performed an excellent job in exposing the university administration's deficit fantasy, we understand that salaries for the burgeoning number of senior administrators and patronage appointments amount to several million dollars.

Furthermore, in a recent statement (*The StarPhoenix*, 10th December, p.A2), president Ilene Busch-Vishniac admitted that: "The task force was very clear: the university missions are teaching and learning and discovery, and any dollar spent on administration is a dollar that isn't going to the core missions, so they're looking at ways where we might cut down on managing the programs and services we have."

The missions referred to by the president are clearly defined in the *University of Saskatchewan Act (1995)*. Bearing this fact in mind, if cuts are necessary, why not implement them to a bloated administration, which does little to advance the defining missions of the university? ■

Chris Adams, Murray Library

Yelena Bird, School of Public Health

James Brooke, Department of Mathematics

Claire Card, Department of Large Animal Clinical Sciences

Michael Collins, Professor Emeritus, Department of Educational Foundations

Gyula Csapo, Department of Music

Alexander Ervine, Department of Religion and Culture

Mark Flynn, Department of Educational Psychology and Special Education

Don Hamilton, Department of Veterinary Biomedical Sciences

Sarah Hoffmann, Department of Philosophy

Eric Howe, Department of Economics

Leslie Howe, Department of Philosophy

Richard Julien, Department of Religion and Culture

George Khachatourians, Department of Food and Bioproduct Sciences

Franz-Viktor Kuhlmann, Department of Mathematics

Dianne Miller, Department of Educational Foundations

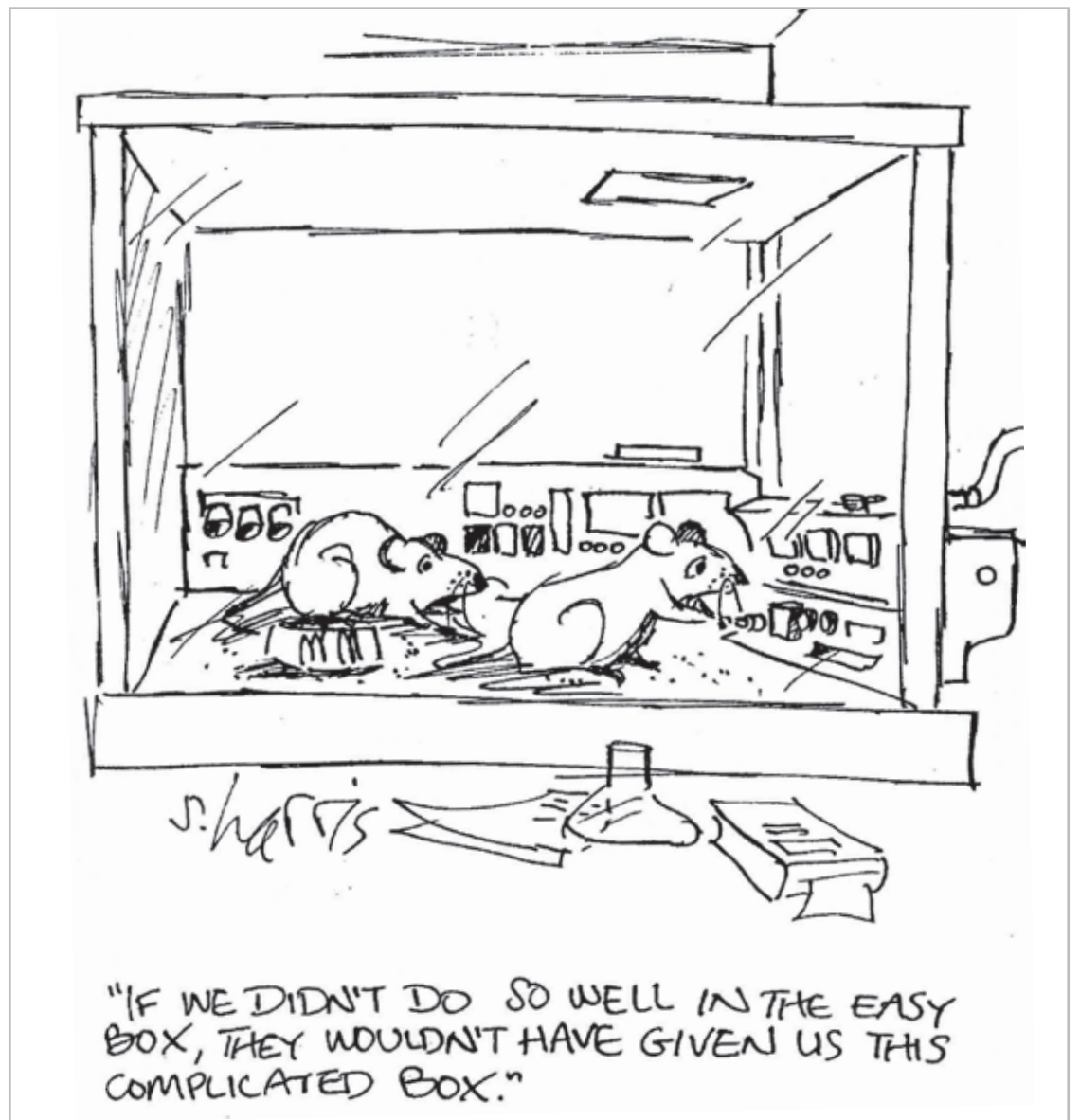
Jean Moraros, School of Public Health

Emer O'Hagan, Department of Philosophy

Satya Sharma, Department of Religion and Culture

Kathleen Solose, Department of Music

Howard Woodhouse, Department of Educational Foundations



SCIENCECARTOONSPLUS.COM

NEW TO US



Hamed Samarghandi

Hamed Samarghandi is fascinated by the intricate dance of human productivity, a sentiment he strives to instill in students in his business planning and statistics classes.

"I'm a statistics guru, actually—I love it," he said.

An industrial engineer and assistant professor in the Edwards School of Business, Samarghandi applies the science of statistics to help design efficiency into processes, whether it is a series of steps to build a product in a factory, a bridge across a river, put a patient through a hospital or a customer through a bank.

"Industrial engineering is basically looking into the systems in which man and machine work together," he explained. "Industrial engineering, in a nutshell, tries to optimize such systems."

Samarghandi has applied his expertise to help improve cancer patient care and to software that processes millions of financial transactions. Back home in Iran, he worked with construction firms and municipalities to help estimate cost and time to more closely match

actual outcomes. He explained the same principles apply, whether it's processing a cheque or delivering a burger.

"Next time you go to MacDonald's, take a look at how they operate, how many people are there, and ask how they manage to keep their waiting times that low. Software collects all the data, sends it to headquarters where it is analyzed, and they decide the number of servers they should have during every shift—all without us noticing."

Samarghandi came to the U of S in July 2013, drawn by the atmosphere of encouragement and support from the dean and faculty at Edwards. He grew up in Tehran, earning his bachelor's degree from Amirkabir University of Technology and his MSc at Sharif University of Technology before coming to Canada. He completed his PhD in industrial engineering at the University of Manitoba.

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

Buhr reappointed dean

Mary Buhr has been appointed to a second term as dean of the College of Agriculture and Biore-sources.

Buhr came to the U of S as dean on July 1, 2009 from the University of Guelph where she

was interim dean of the Ontario Agriculture College. She earned a BSc in biology from the University of Waterloo in 1976, and an MSc and PhD in biology from the same university in 1978 and 1982 respectively. Her research interest

centres on sperm physiology and its relationship to fertility and artificial insemination.

Her re-appointment was confirmed by the university Board of Governors and announced Feb. 3. ■



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

The humble Huskies coach

Lisa Thomaidis credits players, experience for her success

LANA HAIGHT



The head coach of the Huskie women's basketball team is quick to highlight the most memorable moments of her career, but neither one focuses on her.

"Winning our first Canada West championship (in the 2005-2006 season) was a huge part of our exploding on to the national scene and being noticed as a basketball powerhouse as opposed to the underdogs who weren't quite there," said Lisa Thomaidis.

Another highlight came just a couple of years ago, in 2010-2011, when the women's team won its second Canada West championship. That victory was especially sweet for Thomaidis because it was won on home court at the University of Saskatchewan.

What the coach doesn't highlight are her personal achievements, despite their noteworthiness: four-time Canada West coach of the year, in 2003-2004, 2005-2006, 2008-2009 and 2010-2011; two-time Canadian Interuniversity Sport coach of the year, in 2008-2009 and 2010-2011; current coach of Canada's women's team. And last month, Thomaidis was named one of the 20 Most Influential Women in Sport and Physical Activity for 2013 by the Canadian Association for the Advancement of Women and Sport and Physical Activity.

"I'm certainly not in my comfort zone when I have to talk about myself. But when I talk about my team, I'm much more comfortable with that. I'm not as shy because I'm very proud of them and think they deserve recognition."

Thomaidis brings that humility to the basketball court as she seeks to be a strong role model for the young women on her team.

"A cornerstone of our (Huskie) program is how hard we work. We're never going to be the most talented team out there, but we're hopefully going to be the most prepared and well-conditioned and the hardest working," she said.

"If you are more intelligent and more prepared, you can beat talent any day with that work ethic and toughness."

Basketball has taken Thomaidis to the far corners of the world. In the late 1990s, after she finished five years as a student athlete at McMaster University in Hamilton, she played two seasons of professional basketball in Europe with a team based in Greece. And in the past 12 years as a coach with Canada's national team, the first 11 as an assistant, she's travelled to China, the Czech Republic, Brazil, Mexico, Chile, Columbia, and to London representing Canada at the 2012 Summer Olympics.

In 2012-2013, Thomaidis took a professional leave of absence from the U of S to work with the national program. Appointed head coach of the Canadian team in March 2013, she remains at the helm of both programs. The Huskies season runs from September to March while the national team practices and competes from May to October.

Thomaidis believes exposure to the game at an international level makes her a better coach at home.

"When we are all in our seasons, there's never an opportunity to watch others coach and learn new ideas about how to

run practice. You can get quite stagnant," she said.

"As an assistant (with the national team), I was able to observe one of the best coaches we have in this country and see how she runs practices and what are her points of emphasis, and learn different ways to teach the same thing."

And now, as the head coach for the national team, she will continue to be engaged in coaching at its highest level.

"The more you see the game at that level, the more ideas you get. It keeps you fresh and it keeps you current."

Thomaidis' national and international profile also helps with recruiting athletes for the Huskie basketball program. It's not unusual for high school players from other parts of Canada to approach Thomaidis about playing for the Huskies. Some of these athletes wouldn't have otherwise considered the U of S, she says.

Yet for all her success since she joined the Huskies almost



Huskie and national basketball coach Lisa Thomaidis

JOSH SCHAEFER PHOTOGRAPHY

15 years ago, one prize remains elusive.

"National championship: it's the big one that we're all after. Once you get to a national championship game, and unfortunately we didn't win in 2011, you understand how difficult it is to win at that level. Not only does your team have to play well, you have to have the right timing in terms of leadership. You have to be injury free. The draw perhaps has to go in your favour. There

are just so many things that come in to play."

Thomaidis is hopeful; the current Huskie women's team is young and talented.

"Regardless of how far we go this year, the future is very bright for the next few seasons. I don't foresee us as anything less than a Canada West and national championship contender for a bit here. And that's very exciting." ■

Lana Haight is a Saskatoon freelance writer.

Mark & Barb Wouters

221-9975
wouters@woutersrealty.com



Excellent market knowledge, years of experience and quality service is what you can expect from Mark & Barb.

RE/MAX
MARK WOUTERS REALTY INC.
Saskatoon's #1 Team.

102 SWAN CR

Well built, maintained and immaculate 3+2 bedroom 1951 sq ft bungalow next to schools and park in Lakeridge. Cathedral ceilings in living room, hardwood floors in dining room and hallways. Sunroom off eating nook with south & east exposure. Excellent basement development, heated garage, and corner lot with room for RV parking. Low maintenance exterior with concrete curbing in front. \$524,900



420 LAKE CRES

Premium Grosvenor Park location for this unique well maintained and fully developed modified bungalow. 2209 sq ft features extensive hardwood flooring, main floor den and family room, 3 plus 1 bedrooms, 4 bathrooms. Private master bedroom has spa ensuite with spacious cabinets, granite counter with double sinks, heated floor and a steam shower. Beautifully landscaped with water feature. New shingles, upgraded windows, double garage and more. \$669,900



More pictures and info www.woutersrealty.com

Iron chefs

The kitchens in Marquis Hall were overrun Jan. 30 with aspiring cooks when Culinary Services hosted its second Next Student Iron Chef competition.

Seven teams of students were selected for the event based on submissions of original recipes, family favourites or cultural classics which they prepared for a panel of judges and hundreds of hungry fellow students.

Supplied with the basic ingredients and equipment, and access to Culinary Services staff for support, the teams cooked up a storm. In evaluating the entries, the judges considered eye appeal, aroma, colour, texture, taste, degree of difficulty

and overall presentation.

The winning team, KISS (Keep it Simple Stupid), took home the top prize with their menu of tender chicken breast over warm veggies served with spaghetti in a delicate rose sauce. KISS team captain Sarah described the meal as simple and straight forward, and added that “eating in Marquis Hall every day gives us a good appreciation for what food people like, and we designed a recipe that would appeal to everyone

and be fun to make.”

In addition to taking home to residence the Next Student Iron Chef trophy, the winning team also received \$100 worth of prizes.

Judges for the event were Quintin Zook, director of Consumer Services; Anthony McCarthy, executive chef at the Saskatoon Club; Kelly Oliver, executive chef at Louis; Max FineDay, USSU president; and James McFarland, executive chef with Culinary Services. ■



Team Hungry Hippo



Team Jordan



Team Omega 4's

KRIS FOSTER

Gardening at the U of S

Centre for Continuing & Distance Education
Sponsored by the Master Gardener Program



Spring Renewal

March 1, 2014

- New Plants and Products
- Succulents for the Prairies
- Landscape Design: A Practical Approach
- Water Feature and Pond Construction

Get a head start on the gardening season and make new friends. All levels of gardeners welcome. All workshops held at the U of S.

Spring Workshops (April to May) include:

- Integrated Food Gardening
- The Allure of Blue Flowers
- Landscaping: Learning through Critique
- Perennials: The Basics
- Stained Glass Birdbath
- Gardening Naturally: Reducing Pests without Chemical Products

NEW this year

Gardening 101: Seasonal Bootcamp
Sessions in Spring, Summer & Fall will walk you through each step of your first year of gardening.



Mark Your Calendar:

Gardenscape, March 28 to 30, 2014 • Hort Week, July 5 to 11, 2014

ccde.usask.ca/mastergardener

Nursing opens Yorkton campus

The University of Saskatchewan College of Nursing has announced a partnership with Parkland College to deliver its Bachelor of Science in Nursing (BSN) program in Yorkton beginning in September.

Until now, students in the Yorkton area completed their pre-professional year at Parkland College, but then had to relocate to Saskatoon, Regina or Prince Albert to complete years two through four of the program in the College of Nursing. As a result of the new partnership, students will now be able to complete a degree in Yorkton with most clinical components available in the Sunrise Health Region.

“The University of Saskatchewan continues to take steps to realize its goal of providing opportunities for students to ‘learn where you live,’ said Patti McDougall, U of S vice-provost of teaching and learning in a news release. “Exciting work with Parkland College now increases our capacity to offer a full Bachelor of Science in Nursing

degree to students in the Yorkton region, thereby advancing on the underlying goal. As we build on our activities around the province, the College of Nursing remains a campus leader on the distributed learning front.”

This is not the first programming the college is offering in Yorkton. In April 2012, it partnered with the local health region to offer graduate-level nursing education.

Lois Berry, acting dean of the College of Nursing, said the goal is to “give individuals province wide the chance to take post-secondary nursing education and this completes another piece of that puzzle.”

In addition to Yorkton and the main U of S campus, the college has campuses in Regina, La Ronge and Ile-a-la-Crosse.

Commenting on behalf of the health region, Suann Laurent, president and CEO, said the addition of the BSN program will help recruitment “and further enhances our vision as a learning organization.” ■

Waging war on mutating fungi

A new test developed by a University of Saskatchewan research team could eventually help physicians stay ahead of dangerous fungal infections and guide development of new drugs.

Susan Kaminskyj, U of S biology professor and research team leader, explained that the lab test identifies mutations in DNA that help fungi resist drugs. The research was recently published in the journal *Eukaryotic Cell*.

"This means if a patient is on long-term anti-fungal therapy and has a relapse, our strategy can identify the resistance mutations and hopefully suggest alternative treatments," she said.

Medical science has few weapons to fight fungal diseases. Since the early 1950s there have been only about two dozen antifungals developed, of four major types, and many are limited in their use. For example, treatments for skin conditions such as athlete's foot are too toxic to

use for internal infections. Part of the problem is while man and mushroom might not seem to have a lot in common, at the molecular level, they are much the same.

"Animals—including humans—and fungi are metabolic cousins so almost all of our physiology is very similar to theirs," Kaminskyj said. "Typically what will kill a fungus will make even a healthy person sick, and most systemic anti-fungal drugs have toxic side effects."

Unfortunately, it is systemic infections that are the most dangerous, she said. They are a particular problem for people with compromised immune systems, including transplant recipients, cancer patients or people with HIV/AIDS.

Kaminskyj explained fungal infection could lead to life-threatening illnesses in more than 70 per cent of these patients even with aggressive drug therapy. The team's research paper further states that "fungal

infections contribute to at least 10 per cent of deaths in hospital settings."

A particular challenge is fungi's ability to mutate. Kaminskyj explained that the latest class of antifungal drugs was released in 2005 and resistant strains of fungi showed up in less than a year. For new drugs, the team's test can show where a fungus is likely to develop resistance, allowing physicians to adjust treatments to better combat infections.

"Much of the current work in antifungals is aimed at developing drug combination therapies," she said. "Like bacteria, fungi have efficient mutation capacity, so resistance is essentially inevitable."

Kaminskyj hopes the team's mutation-tracking tool will also help in the development of new antifungal drugs by providing a way to learn more about fungal cell walls. This knowledge could be a source of potential targets on which to base new treatments. ■



Biology professor and researcher Susan Kaminskyj

PHOTO SUBMITTED

Exploring metallopolymers, creating 'smart' materials

BY MICHAEL ROBIN



Chemistry professor Jens Müller is developing polymers based on metals.

PHOTO BY MICHAEL ROBIN

For polymer chemists, the periodic table is a cupboard full of ingredients most of which never get pulled off the shelf. Chemistry professor Jens Müller is working to change that.

"We are surrounded by polymers, and our modern world would be completely different without them," he said, adding that most of these polymers are made up of a handful of elements. "The main elements are carbon, oxygen, nitrogen and then a few others. It's less than five, but we have more than a hundred elements, and most of them are metals."

Müller first provided a primer on polymers, which are molecules with simple repeating units and are among the most useful and ubiquitous materials on Earth. Natural polymers include cellulose—the molecule that gives plant stems and wood their strength—and DNA, the stuff of life. Synthetic polymers include polyethylene, polystyrene and polyvinyl chloride used to make plastics.

In contrast, research into

polymers that contain metals—metallopolymers—is relatively new, with important developments in the field beginning in the 1990s. Müller and his research team work on a class of iron-containing chemicals called ferrocenes. So far, they have successfully used aluminum and gallium to create polymers and are currently incorporating other elements as well.

Müller's interest in metallopolymers is based on a common property of metals: they come in different "flavours" or oxidation states. This means they can lose one or more electrons, which changes their properties. Once they get the electrons back, they revert back to their original state.

This opens up exciting possibilities for "smart" materials with properties that could be useful in a wide range of areas, from semiconductors in electronics to information storage, photovoltaic cells and chemical processing.

The work of Müller and six

PhD students is at an earlier stage. They are developing monomers—the small molecules that are linked together to make a polymer. A useful analogy is LEGO blocks, in that different shapes and sizes of blocks make different projects possible.

"That's the creative part, where you have to come up with ways to change this or that in the molecule, make it bigger, make it smaller, make it more negative, more positive, based on the answer you got from your first generation of compounds," he explained. "Then you test your idea out, and if you understood what the molecules told you, you will lift their properties up to the next step, depending on where you want to go."

Müller said that the behaviour of each metallopolymers will differ, depending on what metal is incorporated.

"That is what we are further developing," he said. "Making possible more starting monomers gives us more options to produce different polymers and see what they can do." ■

5TH ANNUAL COLLEGE OF ARTS & SCIENCE

Alumni of Influence Dean's Dinner & Award Ceremony

Join us.



Gail Appel



Kendal Netmaker



Gordon Barnhart

Honouring our distinguished 2014 Alumni of Influence:

Gail Appel
Gordon Barnhart
James Bolton
Eric Cline
John Dewar
Frank Farley

Keith Geddes
Namarta Kochar
Ruth Millar
Kendal Netmaker
Shannon Skinner

Join Dean Peter Stoicheff, alumni, family
and friends for a memorable evening.

FRIDAY MARCH 14

Cocktails at 5:30 | Dinner at 6:30 | TCU Place, Saskatoon
Single Tickets \$55 | Tables of 8 \$400

For more information:

call (306) 966-6388 or email teri.olson@usask.ca



College of
Arts and Science



An executive perspective

Marvin Romanow shares ideas across campus

KRIS FOSTER

For about a year now, Marvin Romanow has been sharing his insight on business and management with the campus community.

Romanow, based in the Edwards School of Business as the first-ever executive in residence, initially spent time getting a feel for the university and the potential scope of the position.

“When you do something for the first time, you have a pretty broad canvas and a university is a great place for that,” said Romanow, who has an extensive business and management background, specifically in the oil and gas sectors, and was most recently president and CEO of Nexen, an international energy corporation.

“Universities draw people with unique perspectives and experiences to help students and campuses progress,” said Romanow, adding that he is excited to be back at the U of S—where he received an engineering degree and an MBA—and contribute to this progress anyway he can.

“I’ve been here for about a year, and spend one week every month on campus. We wanted it to be low-key at the start to see what the interest level was, so I went across campus and started by introducing myself around.”

Shortly thereafter, the invitations started to roll in.

“I have been doing a lot of different things,” explained

Romanow. “I have contact with students, both in and out of the classroom, and share my experience in business and management. Faculty invite me to their classes to share my view on particular topics.”

Some of the subjects Romanow has covered include how corporations finance their activities, how they manage risk, how they gather and use data, and labour relations and energy issues, which “are quite broad and can include everything from society use, environmental issues and international topic.”

Another topic that frequently comes up, especially with students, is how to manage a career.

“One of the more common topics I cover is ‘how to run a career as a marathon not a sprint.’ Students are very interested in career advice.”

To his surprise, Romanow has even been invited on a number of occasions to speak one-on-one with college deans to provide counsel on managing a school.

“Deans are selected because of their stellar research and academic backgrounds, usually in their mid-to-late 40s. At that point, they often don’t have a lot of management skills. Management is a different skill set than teaching and research; there is a tiny bit of overlap, but not much. Deans are like presidents of little subsidiaries and I can give them perspective on managing in that environment.”

Academic institutions, he continued, are not easy to manage for various reasons, including tenure, unions and academic freedom, all of which “are really important, but change how you can manage a school.”

Some of the topics Romanow discusses with the deans who contact him, include assessing the environment they manage, understanding why individuals react in certain ways in those environments, and how to improve personal effectiveness based on what is happening in the college.

“Those are the topics I can speak to and those are also the topics deans typically want my point of view on.”

During these discussions, Romanow is sure that the line between post-secondary education and business management is not blurred. “I don’t think universities should operate like a business because they are fundamentally different.”

A business, he explained, is a limited-purpose organization that provides goods or services



Marvin Romanow, executive in residence

SUBMITTED

that society needs or wants and does so while expropriating some value for its capital providers.

“There is a collective goal, such as to make a product for half the price of a competitor,” said Romanow, adding that universities, by comparison, have a broad mandate around teaching and research and do not expropriate value for stakeholders.

“Obviously they are very different so I think a business

“I think a business mindset would be a mistake, but universities can learn from some business practices that are useful to them.”

Hugo Cota-Sanchez

mindset would be a mistake, but universities can learn from some business practices that are useful to them.”

There are two such practices in particular that Romanow sees as critical to university operation: collaboration and efficiency.

“In all my conversations I always encourage collaboration towards collective outcomes. Collaboration is critical to business because we have to interpret all of these (diverse) issues and nobody is an expert on everything. Universities tend to be more solitary and lonely. Breakthroughs come from different disciplines collaborating. For example, medical instruments need engineering and medicine.”

Romanow would also like to see some research directed to “policy makers and practitioners. Universities unfolded to advance knowledge of civilization, and that’s great, but what if 10 per cent (of the research) was pursued to be directly useful to policy makers and practi-

tioners?”

He believes that the university setting may be one of the last unbiased places positioned to help government and industry with major public-policy issues like carbon emissions, tax policy or how to structure royalties in resource industries. “Academic freedom is a big gift that universities possess and as a result they have a responsibility to apply at least some of their resources directly to public-policy issues.”

On the efficiency front, Romanow said that universities are “really good at starting things, but not stopping things. Universities are slow to change. There are programs still offered that are no longer relevant and barely have any students enrolled.”

Romanow, retired but still a consultant and a member of various boards, said he enjoys his new role but only time will tell how long he stays in it.

“I can’t say how long we (will) do this. That will be determined by the importance and usefulness of the role to the university, colleges, students and faculty. I think it is important to help form young minds and bodies into the leadership of society. Universities have a high purpose in society, and helping them fulfill this from a practitioner’s point of view is a privilege.”

Daphne Taras, dean of the Edwards School of Business, said an executive in residence program is important because it “builds partnerships between top business leaders and our school. I was delighted to bring someone with Marvin’s business and management experience into this role.”

“He already has provided incredible learning opportunities for Edwards students, faculty and staff. We hope the entire campus community benefits from his appointment,” said Taras. ■

THE COLLEGE OF PHARMACY AND NUTRITION IS PLEASED TO HOST

Dr. Gill Westhorp

Internationally recognized specialist in Realist Program Evaluation, Dr. Westhorp will be conducting two public workshops in Saskatoon:

1 Feb 18, 2014 – Realist Evaluation

Suitable for all those interested in program evaluation. Rather than asking ‘what works’ or ‘does this work’, realist evaluation asks ‘for whom does this work, in what contexts, in what respects, and how?’ Realist evaluation is a theory-based approach which offers a way of investigating how and why policies and programs cause different outcomes in different contexts.

2 Feb 19, 2014 – Realist Synthesis

Suitable for those interested in knowledge synthesis with a realist lens. It applies the same realist principles to the task of synthesising existing research and evidence. As a result, it uses quite different methods than other forms of review or synthesis and produces contextually-sensitive advice for policy and programs.

All those interested in program evaluation and knowledge synthesis are invited: All Health sciences (medicine, nursing, physiotherapy, kinesiology, veterinary medicine), social sciences, community health & epidemiology, public health, political science, policy evaluation, policy making, agriculture, engineering, employment and social development, housing.

WORKSHOP REGISTRATION AVAILABLE ONLINE AT:
usask.ca/pharmacy-nutrition/the-college/realist-workshops.php

PLEASE DO NOT HESITATE TO CONTACT LEANE KING
IF YOU MAY HAVE QUESTIONS:
leane.king@usask.ca

UNIVERSITY OF SASKATCHEWAN
College of
Pharmacy and Nutrition

Play presents various viewpoints about water

From Page 2

forum theatre as an actor, this will be Martina's first time directing this type of performance.

"It's getting people to see other people's opinions and outlook," she said. "Hopefully, for stakeholders coming to see this, it will open their eyes to other points of view."

The Saskatchewan River basin drains some 400,000 square kilometres in Western Canada. Its waters pour from the taps of households in major cities from Edmonton and Calgary to North Battleford, Saskatoon and Prince Albert. Farmers depend on the river system to irrigate crops and raise livestock. Industries from oil producers and potash mines to pulp mills use water. Many of

the basin's First Nations inhabitants continue to depend on the river for their livelihoods as well.

This broad range of stakeholders is where Strickert finds his niche.

"I'm a social scientist," he said. "I've spent a lot of time working in between the physical scientists, engineers and the policy world or people who are interested in policy. How do stakeholders make sense of the information? How can they use that information?"

Rehearsals started January 30, and set production is already underway. *Downstream* has piqued the interest of both its director and the students who answered the casting call.

"What is important for me for this play is the different

populations—the Aboriginal communities, the fish habitat community, the oilfields community," Martina said. "That's what intrigues me about this piece. Who should have more say? Who are the small folks that are affected by major decisions up stream? I think that's why the students are intrigued too.

"Also, they get a sweet honorarium," she said, with a nod to SSHRC. "It's a paid gig—not bad for a student actor."

Downstream will premiere in Calgary and travel to Medicine Hat before returning to campus for a performance at Convocation Hall on Feb. 21. Tickets for that performance are available on the GIWS website. The final performance takes place at Cumberland House Feb. 24. ■

Chairs, network, training all part of One Health

From Page 1

The effort has \$400,000 in core funding for the next two years from the Provost's Committee on Integrated Planning, the Colleges of Veterinary Medicine, Medicine and Nursing, and the Council of Health Science Deans.

But Reeder is quick to add, "the One Health initiative builds on long-standing strengths at the U of S. Our goal now is to take them to the next level."

That evolution, to taking an interdisciplinary approach to complex health issues, has brought together people from a very broad range of disciplines on campus, from the basic health sciences to law and the social sciences, he said. "When we have our faculty meetings, it's a rich array of people and we're learning each other's languages and approaches."

To stimulate even more activity, One Health has launched a research development grant program, offering four \$20,000 grants to help interdisciplinary teams create programs of research that are suitable for external funding agencies, said Reeder. Four priority areas have been identified: food safety; water and health; infectious diseases shared by animals and humans; and One Health community needs and services. The deadline for submitting grant proposals is Feb. 28, said Reeder, and four more grants will be made available next year.

In addition to research, One Health at the U of S has received a Natural Sciences and Engineering Research Council collaborative research and training

grant, an initiative led by Dr. Baljit Singh of the WCVM, Dr. Volker Gerdts of VIDO and John Gordon from medicine. Over the next eight years, the grant will support the training of about 78 graduate students in problem-based solutions to complex One Health problems.

Reeder said some of the One Health core funding has been allocated to expanding the international dimension of the grad student training. Last year, 13 students from seven disciplines at four universities in Canada, Germany and India were enrolled; this year, enrolment is at 18.

"We're learning as we go," Reeder said, "adapting the curriculum to give cutting-edge teaching in interdisciplinary collaborative problem solving."

At the undergraduate level, U of S faculty members from five disciplines are developing training modules that will be problem based and part of the core curriculum for the health sciences including veterinary medicine. "The idea is that students start to think in an interdisciplinary way and start to use the strengths of other disciplines."

Reeder said the Gwenna Moss Centre for Teaching Effectiveness has been an important partner in developing the training programs, and work is underway on a proposal to make both certificate programs.

Other One Health activities include recruitment for a Canada Excellence Research Chair (CERC) in integrated infectious disease mitigation. "That person and the team that comes with

that person will be a great boost for One Health at the U of S." An announcement about the chair is expected before the end of the year. There is also a recently confirmed Canada Research Chair in Infectious Disease Prediction and Control.

There has also been an application submitted for a Network of Centres of Excellence, a federal government program to advance research knowledge sharing that has implications for the wellbeing of Canadians and the economy of Canada. The network, which will be based at the U of S, will involve academics, industry partners and regulatory agencies, explained Reeder. The CERC and a Network of Centres of Excellence are the largest research and training awards in the country, he noted.

Overall, Reeder believes that the One Health concept "is in the right place at the right time" for the University of Saskatchewan.

"There's considerable excitement around One Health and a growing realization that the complex problems in our world require the expertise of many disciplines and communities working together. We as researchers and teachers are increasingly recognizing the challenge of communicating across disciplines, agreeing on methods across disciplines and involving users of the knowledge; we also need to understand what communities and industry want and need.

"These are dimensions that have developed in the last 20 years and I think they're very progressive and appropriate for solving the problems we must now address." ■

Around the Bowl

Andrew Dunlop, former program director in the University Learning Centre, has been named director of community engagement and outreach in Advancement and Community Engagement (ACE). In the position, Dunlop is responsible for campus-wide leadership related to growing, developing and enhancing the university's capacity for community engagement.



Dunlop

Also announced by ACE is that **Chris Jacobson** has joined the College of Engineering in a term position as major gifts officer. Jacobson brings to the university broad experience from previous work in sales, business and finance, most recently as co-owner of Jacobson Group Management Consultants.

The office of the Provost and Vice-President Academic has announced the following appointments:

Dr. Sheila Harding to a term extension, to June 30, as associate dean, medical education in the College of Medicine,

Murray Fulton to a five-year term starting Jan. 1 as director of the Centre for the Study of Co-operatives.



Fulton



Home Schedule:

Volleyball
Feb. 7 and 8 vs Mt. Royal
women @ 6:15 pm / men @ 8 pm

Women's Hockey
Feb. 7 and 8 vs UBC
7 pm at Rutherford Rink

Men's Hockey
Feb. 14 vs Regina
7 pm at Rutherford Rink

Wrestling
Feb. 7-8, Canada West Championships
Education Gym


More Huskie news, features and profiles at huskies.usask.ca

University of Saskatchewan
Discover More
with **St. Thomas More College**

Over 200 Arts & Science class options open to all U of S students!

"I appreciate STM's community atmosphere and the smaller class sizes that provide students with an engaging learning environment."
Gabriela, STMSU President

Open January 2014 - New 20,000 sq. ft. addition with over 350 new student spaces incorporating advanced classroom technology.

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

Coming Events

■ Seminars/Lectures

Classical, Medieval and Renaissance Studies Colloquium

- Feb. 13, 4-6:30 pm, Room 200 St. Thomas More College, Margriet Haagsma, University of Alberta, presents The Kastro of Kallithea in Thessaly, Greece: regional economies, religious practice and identity formation

Johnson-Shoyama Lecture

- Feb. 10, 3:30-4:30 pm, Prairie Room, Diefenbaker Building, March Schneibrg, professor of sociology, Reed College, Portland, presents Fates of Co-operative and Mutual Enterprise Systems in Neoliberal Era: Mutual Bank Conversations to Stock Corporations in the U.S.

Science and Justice

- Feb. 10, 7-8:30 pm, Neatby-Timlin Theatre, Luis Fondebrider, Dept. of Legal Medicine, University of Buenos Aires, and president of the Argentine Forensic Anthropology Team involved in using forensic anthropology in identifying victims of mass violence in over 40 countries in Latin America, Africa, Asia and Europe, presents Bones, Ghosts and Human Rights: How Science Can Further Justice

Philosophy in the Community

- Feb. 12, 7-9 pm, The Refinery, 609 Dufferin Ave., Alex Beldan, PhD candidate, University of Western Ontario, presents Reasons that Explain, Reasons that Justify

Getting Started with Text-Mining and Web-Scrapping

- Feb. 27, 3:30 pm, Arts 140, Jim Clifford, Dept. of History introduces the Programming Historian and Bill Turkel's website, and discusses his ongoing indecision between coding in Python or Mathematica. This is a demo/workshop in the ETRUS Digital Humanities Toolbox series, and all are welcome.

Law Lectures

- Feb. 10, noon, Room 150 College of Law, John Wade, Visiting Law Foundation Chair, presents the Law Foundation of Saskatchewan Lecture entitled Negotiating with Difficult People
- March 10, 7 pm, Convocation Hall, Cindy Blackstock, executive director, First Nations Child and Family Caring Society of Canada and associate professor, University of Alberta, presents the Wunusweh Lecture in Aboriginal Law entitled The human rights case on First Nations child welfare and the associated social movement for equity for First Nations children and their families

Archaeology Lecture

- Feb. 7, 7:30 pm, Room 132 Archaeology Building, the Saskatoon Archaeological Society presents James Waldram, Depts. of Psychology and Archaeology and Anthropology, speaking on Anthropological Research with Traditional Maya Healers in Belize

Veterinary Microbiology 990 Seminar Series

- Feb. 7, Roshan Priyantha, MSc graduate student, presents Staphylococcus pseud-intermedius in dogs, virulence factors an emerging antibiotic resistance AND Emilie Bouchard, MSc graduate student, presents Toxoplasma Gondii – Characterization and transmission dynamics in the Canadian Arctic

Literature Matters

- Feb. 26, 7:30 pm, Social Hall, Grace-Westminster United Church, Susan Gingell presents Bennett, Marley, Goodison: Voices of the Jamaican People in "The Green Gown of My Mother Gone Down"

Co-operatives Seminar Series

- Feb. 10, 3:30-4:30 pm, Prairie Room, Diefenbaker Centre, the Centre for the Study of Co-operatives Seminar Series presents Marc Schneiberg, professor of sociology, Reed College, Portland, whose lecture is entitled Fates of Co-operative and Mutual Enterprise Systems in the Neoliberal Era: Mutual Bank Conversations to Stock Corporations in the US

Fine Arts Research Lecture

- Feb. 26, 12:30-3 pm, Quance Theatre, Bonnie Cutsforth-Huber presents Against All Odds: A Singer's Battle with Chiari Malformation

English Honours Colloquium

- Feb. 7, 9 am-4 pm, Prairie Room, Diefenbaker Centre, the colloquium presents some of the best work of students graduating from the undergraduate honours program in the Dept. of English

■ Conferences

Academic Research Day

The Dept. of Psychiatry is holding a Psychiatry Update: Addictions and Mental Health event March 28 in the Rependa Theatre, Saskatoon City Hospital. Among the presenters are Dr. Robert Milin, head, Division of Addictions and Mental Health at the University of Ottawa; Dr. Tony George with the Centre for Addition and Mental Health and the Division of Brain and Therapeutics at the University of Toronto; and Detective Inspector Jerome Engle and Sergeant Dean Hoover of the Saskatoon Police Service. More information and the registration form are available on the department website.

Zbeetnoff Drug Therapy Conference

The 11th Annual Peter and Anna Zbeetnoff Memorial Drug Therapy Decision Making Conference takes place March 7-8 at the Saskatoon Inn. The conference will provide an evidence-based perspective on pharmacotherapeutic initiatives for the benefit of the patient as well as provide a forum for the discussion of a current social issue in medicine. For more information, visit usask.ca/cme

St. Andrew's College Winter Refresher

St. Andrew's College annual Winter Refresher takes place Feb. 27-March 1. This continuing education event will feature Andrea Smith, a Native American anti-violence activist and scholar and associate professor in the Department of Media and Cultural Studies at the University of California, Riverside, who will present Confronting Racism with Solidarity: Untangling Colonial Webs and Creating New Contexts. More information and a Winter Refresher 2014 brochure are available on the college website at standrews.ca or by contacting the general office at 306-966-8970.

■ Courses/Workshops

Breast Cancer Rehabilitation Symposium

- Feb. 27-28, Travelodge Hotel, Continuing Physical Therapy Education will hold a Breast Cancer Rehabilitation Symposium to provide an evidence-based update on management of breast cancer, and promote interprofessional treatment of breast cancer and other cancers. The format will include plenary sessions, interactive group workshops, and interprofessional case discussions. For program details, visit the course calendar at www.usask.ca/cpte or email cpte.program@usask.ca

Realist Workshops

- Feb. 18 and 19, 9 am-5 pm each day, the College of Pharmacy and Nutrition will host two workshops dealing with

Realist Research Methods and Realist Synthesis Training. The speaker will be Gill Westhorp, a specialist in realist methodologies who is based in Adelaide, Australia. For more information contact leane.king@usask.ca or visit the college website.

Library Research and Reference

For more information, search by series name on the university homepage.

Library Researcher Series: Learn some literature searching strategies and research productivity skills. All sessions will be held in the Collaborative Learning Lab, 1st Floor, Murray Library, from 1-2pm. Sessions are free and no registration is required.

- Feb. 11 – Why and How to do a Comprehensive Literature Review
- Feb. 25 – Searching for Grey Literature
- Mar. 4 – Literature Searching for Systematic Reviews
- March 11 – 10 Government Research Tips You Need to Know
- March 18 – Citation Searching
- March 25 – Overview of Patent Searching
- April 1 – Research Data Management

Managing Your References Series:

Learn how to get started with some popular citation management tools. Sessions are free and no registration is required.

- Feb. 28 – RefWorks – 2:30-3:30 pm, Murray Library, Room 161
- March 7 – RefWorks – 10-11am, Murray Library, Room 161
- March 14 – Mendeley & Zotero – 1:30-2:30 pm, Murray Library, Collaborative Learning Lab
- March 21 – RefWorks – 12:30-1:30 pm, Engineering Building, Delta Lab, Room 2B04
- March 28 – EndNote – 1-2pm - Health Sciences Library Meeting Room

Centre for Continuing and Distance Education

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

Business and Leadership Programs

- Leadership Development Program, Tuesdays, March 4-April 1
- Developing Successful Partnerships, March 13
- Leadership for Managers & Supervisors, March 19-20
- Building an Effective Team, April 3
- Developing Your Presentation Skills, April 7 and 14
- The 5 Choices to Extraordinary Productivity, April 8-9
- Understanding Self and Others Using MBTI Step II, April 24
- Train the Trainer: A Short Course in Adult Learning, April 28-30

Crucial Conversations for U of S Employees

- March 20 and 27, Room 224/225 Williams Building, fee \$490

U of S Language Centre

- The French Voyageur for Beginners Feb. 14-16, 20 hours over 2.5 days, cost \$275 (materials and GST included)

USCAD Classes

- Watercolour I/II, April 4-6/11-13
- Portrait Photography, March 1, 2, 29, 30
- Digital Camera Basics, March 7, 8, 21, 22
- Stained Glass: Focus on Foil work, April 25-27
- Glass Fusion I, March 1, 2
- Glass Fusion II, March 22, 23
- Basic Skills for Silver Jewelry, March 7-9
- Advanced Silversmithing, April 4-6
- Experimental Fiber Art and Design I, March 28-30/April 4-6
- Contemporary Collage with Collagraphy, Image Transfers and Photo Transparencies, Feb. 28-March 2/March 7-9

Eco-Education Travel

- March 1-14, Costa Rica: Two Oceans, Volcanoes and Cloud Forest with Melanie Elliott. For details, visit ccde.usask.ca

Science with Impact Workshop

A Science with Impact workshop, presented by Let's Talk Science, will take place Feb. 13 from 1-4 pm in Room B6, Health Sciences. The free workshop provides science, engineering, technology and math professionals with strategies to plan and conduct science and technology outreach with youth in a variety of settings. For more information contact susitaylor@letstalkscience.ca

ICT Training Services

For information or to register, email us at training@usask.ca or visit training.usask.ca.

- Adobe Acrobat Pro Intro, Feb. 27, 1:30-4:30 pm, \$75 students; \$85 staff and faculty; \$100 others
- Adobe Illustrator – Inter, March 4 and 6, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Adobe Illustrator – Intro, Feb. 18 and 20, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Adobe InDesign – Inter, Feb. 11 and 13, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Adobe InDesign – Intro, March 18 and 20, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Adobe Photoshop – Inter, March 25 and 27, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Adobe Photoshop – Intro, March 11 and 13, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Apple - Make the Most of Your Mac OS – Intro, Feb. 12, 2:30-4:00 pm, \$0 students, staff, faculty; \$75 others
- ArcGIS - Intro, Feb. 10 and 12, 6:30-9:30 pm, \$0 students, staff, faculty; \$185 others
- Blackboard / U of S Course Tools Fundamentals, Feb. 7, 2:00-3:30 pm, \$0 staff and faculty
- Blackboard / U of S Course Tools Questions/Grades Wkshp, Feb. 14, 2:00-3:30 pm, \$0 staff and faculty
- Blackboard / U of S Course Tools Instr. Wkshp, Feb. 21, 1:30-4:00 pm, \$0 staff and faculty
- MS Outlook – Intro, March 19, 1:30-4:30 pm, \$0 students, staff, faculty; \$125 others
- MS PowerPoint - Tips and Tricks, March 12, 2:30-4:00 pm, \$0 students, staff, faculty; \$75 others
- MS Word - Intro, March 3 and 5, 1:30-4:30 pm, \$125 students; \$150 staff and faculty; \$185 others
- Research Posters - MS PowerPoint, Feb. 25 2:30-4:00 pm, \$0 students, staff, faculty; \$75 others
- SPSS for Windows - Intro, Feb. 24 and 26, 6:00-9:00 pm, \$0 students, staff, faculty; \$185 others
- Wiki Intro, Feb. 19, 2:30-4:00 pm, \$0 students, staff, faculty

Faculty Workshops: contact training@usask.ca or 306-966-4866 for more information on workshops geared to faculty. IT4U – Tech Help for Students: it4u.usask.ca
Enrol in many courses from off campus. Go to training.usask.ca for more information.

Continuing Education and Development for Nurses

For information on these and other events, visit usask.ca/nursing.cedn

Workshops

- Foot Care Modalities for the Elderly Person, March 6-7, registration required
- Introduction to 12 LEAD ECG Interpretation, March 13-14, registration required

Conference

- Optimizing Health for Older Adults, April 11-12, registration required

Edwards School of Business, Executive Education

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

- Feb. 12-May 24, The Masters Certificate in Project Management
- March 20, Spring Forward: Grandey Leadership Luncheon
- March 24-26, The Project Management Course – Saskatoon

- March 28, Edwards Seminar Series: Unpacking High Performance
- April 2, Edwards Seminar Series: Relationships that
- April 2-4, What the Non-Financial Manager Needs to Know About Financial and Managerial Accounting - Regina
- April 7-9, The Business Analyst's Course - Regina
- April 29-May 1, Digital Marketing Program: Social Media and E-Marketing Certificate
- May 22-23, Process Mapping and Process Improvement Course - Regina
- May 26-27, Analyzing and Improving Office and Service Operations (Lean Office) Course
- May 28-29, Process Metrics, Management and Controls Course
- May 30-June 6, The Effective Executive Leadership Program –Waskesiu

■ The Arts

Downstream

Discussing research outcomes can be a dry experience at the best of times, so the School of Environment and Sustainability and the Global Institute for Water Security are taking an artistic approach through *Downstream*, a play written and performed in collaboration with the U of S Dept. of Drama. On Feb. 21 at 1 pm in Convocation Hall, *Downstream* will present a tongue-in-cheek look of how water management plans are created, using statements, feedback and observations gathered through a series of 2012 research workshops. Audience interaction will be encouraged during and after the performance.

Joint Concert

A joint concert of the U of S Wind Orchestra and the U of S Jazz Ensemble takes place Feb. 7 at 7:30 pm in Quance Theatre, Education Building. Leading the performance will be Gillian MacKay, associate professor of music at the University of Toronto, where she conducts the Wind Ensemble and teaches conducting and trumpet. Admission is by silver collection.

Best of the Brass

Jens Lindemann, UCLA Professor of trumpet and world-renowned trumpet soloist, will be Artist-in-Residence at the U of S Feb. 9 and will conduct a bass master class from 1-2:30 pm in Quance Theatre, Education Building. Admission is free. At 3 pm, also in Quance Theatre, Lindemann and David Thornton, one of the best euphonium players and teachers of his generation, will be soloists at a performance of Saskatoon Brass Bands Inc. Admission is by silver collection.

St. Thomas More Gallery

On until Feb. 28 in the St. Thomas More Gallery for *Pressing Matters*, an exhibition of new works by Ink Slab Printmakers.

Films on Photography

A number of films will be screened at noon in the Gordon Snelgrove Gallery as part of the Saskatchewan Prairie Light Photography Festival. The screenings are free and everyone is welcome to attend.

- Feb. 11, *Margaret and Me*
- Feb. 25, *Gregory Crewdson*

Kenderdine Art Gallery

Showing in the Kenderdine Art Gallery is *Rita McKeough: The Lion's Share*, an immersive experience that includes a visual array of materials and the sounds of a lion eating, all within the space of a faux restaurant. The artist describes the installation as a 3D version of a Looney Tunes restaurant in which things have gone terribly awry. The exhibition, curated by Josephine Mills, continues until April 26.

Amati Performance

The U of S Amati Quartet will perform a program of works by Haydn, Mozart and Dvorak Feb. 15 at 2 and 7:30 pm at Third Avenue United Church. Tickets are available online at www.persephonetheatre.org or in person at the Remai Arts Centre.

College Art Galleries

The group exhibition *Ecotopia*, circulated by the Kitchener-Waterloo Art Gallery and on view in the College Art Galleries, explores environmental conservation, destruction and the cacophonous blend of architecture and decay in a technological age from the perspective of a number of artists. The show runs until May 7.

On Stage

Greystone Theatre will present *Our Country's Good March* 19-29. Directed by Pamela Haig Bartley, the play, set in New South Wales, Australia in 1789, is a frequently funny exploration of the transformative potential of theatre and the civilizing power of the arts. Details and tickets available on the Dept. of Drama website.

Snelgrove Talk Series

The Gordon Snelgrove Gallery is hosting the 2014 Master of Fine Arts Candidates Artist Talk Series at noon in the gallery:

- Feb. 12, Aminah Jomha presents *A Transitional Gaze*
- Feb. 19, Mackenzie Browning presents *The Rejected Opposite*

Miscellany**CLS Tours**

The Canadian Light Source is offering free public tours of the facility most Thursdays at 1:30 pm and at 7 pm on Feb. 20, March 20 and April 17. Reservations are required. An online form is available on the CLS website under the education tab, or email outreach@lightsource.ca, or call 306-657-3644.

Alumni Award Nominations

Nominations close Feb. 7 for the 2014 USSU Young Alumni Excellence Award. The recipient must have graduated from the U of S in the past five years, be 35 years of age or younger, be actively involved in their community and must have maintained a strong connection to the U of S or the U of S Alumni Association. More information and nomination forms can be found on the alumni website.

Teaching Awards

Feb. 15 is the deadline for submitting nominations for the following awards for excellent teaching practice offered by the Gwenna Moss Centre, in co-operation with the Office of the Provost. For more information, visit the Gwenna Moss Centre website.

- The Provost's College Awards for Outstanding Teaching
- The Provost's Awards for Excellence in Aboriginal Education
- The Provost's Award for Excellence in International Teaching
- The Provost's Award for Outstanding Innovation in Learning
- Provost's Outstanding New Teacher Award
- Provost's Outstanding Graduate Teaching Award (for Faculty)
- Provost's Outstanding Graduate Student Teacher Award (for Graduate Students)
- Sylvia Wallace Sessional Lecturer Award

University Club Events

For information or reservations, call 306-966-7775

- University Club's Annual Open House in February; membership is not required to access services during this two-month period. Special offers related to membership are also available.

**SUBMIT
Coming Events**

Next OCN: **Friday, Feb. 28, 2014**
Deadline: **Thursday, Feb. 20, 2014**

Email ocn@usask.ca



BOBLED CANADA SKELETON

SOCHI BOUND

Lyndon Rush, above right, shown piloting the Canada 1 bobsleigh at the 2010 Winter Olympics in Vancouver, is one of several people with U of S connections who will be participating in the 2014 Olympics and Paralympics in Sochi, Russia. The five athletes and one official—hockey referee Bob Meier—are profiled on the U of S alumni site at alumni.usask.ca

Robert Lamb named CLS director

Australian scientist Robert Lamb has been named executive director of the Canadian Light Source (CLS) at the U of S.

Currently at the University of Melbourne, Lamb was the founding director of the Australian Synchrotron, leading the transition from construction to operation of the national facility. He also served as chair of the CLS Scientific Advisory Committee. His appointment is effective Aug. 1. He will succeed Josef Hormes, who is leaving the position after five and a half years to focus on academic and research projects.

In addition to heading the synchrotron, Lamb will hold

a tenured professorship in the U of S Department of Chemistry.

"Having worked with the CLS team for over three years, I know this is a globally competitive facility, with dedicated staff, excellent researchers, and committed partners and customers," said Lamb in a news release. "So I'm very excited to be part of the next chapter of its life."

A recognized leader in synchrotron surface science, Lamb has PhDs in chemistry and physics from the Universities of Melbourne and Cambridge respectively, and more than 200 scientific publications and 39 patents.

Walter Davidson, chair of the Canadian Light Source Inc. Board of Directors, and University of Saskatchewan President Ilene Busch-Vishniac, jointly announced the appointment.

"We are thrilled to have a scientist of Dr. Lamb's stature lead our synchrotron," said Busch-Vishniac. "CLS users make an enormously important contribution to research that affects our environment, our health and the economy. Dr. Lamb has the management and research experience needed to understand the many dimen-



Lamb

sions of leading a global centre of this kind." ■



LEED silver for the Place Riel expansion

DAVID STOBBE

LEEDing the way

Construction waste diversion, sustainable building materials, removing an escalator in favour of stairs and tree replacement were all factors that helped earn the U of S Students' Union (USSU) a Leadership in Energy and Environmental Design (LEED) silver certification for its Place Riel expansion project.

"One of the major aims during construction was to make Place Riel as environ-

mentally friendly as possible," said Caroline Cottrell, USSU general manager, in a release announcing the certification. The silver designation recognizes the organization's efforts to construct "the most sustainable building possible."

LEED is a third-party program for the design, construction and operation of high-performance green buildings. ■

**President's
Service
Awards**

The Office of the President is now accepting nominations for the 2014 President's Service Awards, a twice-annual recognition of the dedication and commitment of non-academic employees.

Presented at each of the university's two convocation ceremonies, the award includes \$1,000 and the choice of a specially-designed ring or pin.

For information or to obtain a nomination form, contact the Office of the President at 306-966-6613 or visit the president's website: www.usask.ca/president

Room with a View

This year's back-page feature explores the view of campus from various office windows, and the people who enjoy them. Do you have an interesting view? Let us know at ocn@usask.ca



KRIS FOSTER

Of canola and cars

Colours, and lots of them—silvery winter skies, pink sunrises, black brooding storm clouds and, in summer, yellow canola blooming in the university fields along Preston Ave.—that's what Christina MacLean appreciates most about the wall of windows behind her desk.

From the fifth floor of 121 Research Drive in Innovation Place, home of a large contingent of Advancement and Community Engagement (ACE) staff, MacLean, who is the team lead in the welcome centre, has a panoramic view to the south and west that includes not only colours but objects. She described as awesome the sight of a Dakota Dunes Casino hot air balloon in the shape of a slot machine floating past almost level with her desk.

But looking down onto the building's parking lot is also entertaining. She tells of watching a car, minus its driver and apparently its brakes, slowly roll out of a parking spot and come to rest blocking a driving lane, much to the frustration of other drivers.

And she also has a bird's eye view of the Parking Services staff patrolling.

"I saw them out there one day and knew I didn't have my parking pass on my rear-view mirror. I tried to get down there in time but I missed him and got a ticket."

