

ON CAMPUS NEWS ocn@usask.ca news.usask.ca



🚮 DAVID STOBBI

Enrolment targets reached

University-wide student numbers stable on first day of classes

MEGHAN SIRED

Four years into the university's third integrated plan, and student targets related to enrolment and diversity have been met and remain stable, according to Patti McDougall, vice provost of teaching and learning.

"It's time to set new targets," said McDougall. "With a new president coming in and the 19,754 undergraduate and end of our third integrated plan, graduate students registered for now is the ideal time to start classes this fall-up 0.6 per cent thinking about what size of an

next 10 to 20 years."

As of the first day of classes, from the previous year.

third integrated plan we set goals for our college enrolment numbers, and we are where we projected we would be by 2015," said the vice-provost.

Overall, college and school

said McDougall. One college that has far exceeded its enrolment goals is the College of Agriculture and Bioresources. As of the first day of classes there has been an 11.5 per cent increase of undergraduate and graduate students in the college.

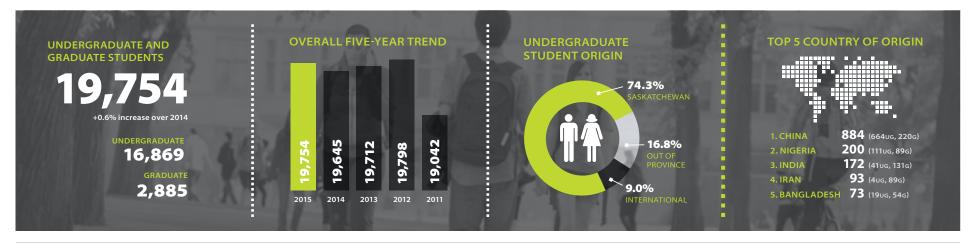
"Our programming is innovative and offered in a researchrich environment," said Mary Buhr, dean of the College of

who partially credits the increase in enrolment to the college's hands-on approach to learning. "Our students see the real-world benefit our programs offer, and even before they graduate, they are learning the inner workings of the multi-billion dollar industries that are agriculture and agri-food."

As of the first day of classes,

"At the beginning of our enrolment numbers are stable, Agriculture and Bioresources, institution we want to be in the

See Diversity Page 9







MARG SHERIDAN

A lot can happen in half a century, and for the College of Medicine's School of Physical Therapy a lot has.

As September rolls around, the school is excitedly preparing for its 50th anniversary celebrations and reunion, which is no small feat considering that almost 1,000 students have graduated from the school since that first class crossed the stage in 1967.

But while the half-century anniversary is important in and of itself, Liz Harrison, the associate dean of physical therapy and rehabilitation sciences, sees the celebrations in a broader light—one that reflects the growth of the program, the changing landscape in Saskatchewan's health care and the growth of research in the field of physiotherapy.

"Fifty years ago we were primarily very medically oriented-drugs, doctors and



Physiotherapy students and staff in 1965 in their first space in a hangar by the airport.

dentists," Harrison explained when asked about how health care has evolved. "We were mainly dealing with keeping people alive, acute care mostly, and there wasn't much in the community in terms of health professionals-the rural doctor

was often the only provider, and often didn't have a nurse or pharmacist to help."

And Harrison thinks that may be one of the most important changes that the school has helped to encourage-not only an improvement in expanded



Outstanding custom home on prime corner lot (40 x 140) in Varsity View! 2073 sq ft above grade. Total of 5 bedrooms + Den, 4 bathrooms, 2 kitchens, 3 laundry options. Large Bright triple pane windows, vaulted ceilings over main living areas make the south facing great room a delight. Main and upper levels have tile, hardwood and granite throughout. The basement suite (non regulation) with separate entrance has cork, carpet and tile floors. Master Suite boasts private balcony, luxurious ensuite bath with dual sinks, air tub and separate shower. Dream closet with generous storage and built ins. Central air, central vac, u/g sprinklers., nat gas BBQ hook up, 2 Valour nat gas fireplaces, stainless Jenn Air appliances with down draft vented outside. Triple attached garage plus work shop space. Dreamy courtyard, is private and low maintenance. 2 blocks to University, Hospital and riverbank Meewasin trail system.



\$1,199,000 MLS

health care, but an adaptation to the fact that people are living significantly longer now than when the school first opened, and require more preventative care.

"We have more needs and expectations now than 50 years ago because we're living longer and dealing with a number chronic

We have

expectations

now than 50

because we're

living longer

and dealing

of chronic

of life.

with a number

diseases that

impact quality

Liz Harrison

years ago

more needs and

of diseases that impact quality of life," Harrison continued. "Now we have people living (to) 95 to 100, and many individuals are still retiring at 65. That knee that was sore 50 years ago for a decade is now actually going to be sore for 30 years and they want to keep golfing, playing with grandkids and, in some cases, working in the community.

"So all those services

to reduce pain and improve only be there temporarily. But

provided by the faculty and community clinicians affiliated with the school. An impressive 80 per cent of grads remain in the province following graduation, which is helping to provide care to an aging population.

Since that first class of 20 students, the school has doubled enrolment, undergone its progressions in curriculum and evolved from a diploma program to its current model as a master's program.

But perhaps one of the most fascinating, and lesser known, pieces of the schools' history is more concrete in nature-or, more precisely, the first brick-andmortar location of the school.

"When the school was established there wasn't space on campus, so (it) started in a hangar building out at the airport-where the children's rehab was," Harrison explained. "It made sense at that point to have the physiotherapy education program near the

> rehab centre. So students would spend some time on campus, because they would do other university classes like psychology, and then they would jump on a bus and head out to the hangar to do their physiotherapy classes." The school did

not move into its current space at St. Andrew's College until the early '70s, and even then the plan was that they would

quality of life is the real differ- it will not be long until they ence in the last 50 years." move across the street into their



\$650,000 MLS

Fantastic opportunity to own a well-maintained semi-detached infill in the prestigious established area of Varsity View! Blocks to the University, Royal University Hospital and the river trail system. Fully developed 4 bedroom, 3.5 bathroom home with walk out basement. Plumbing roughed in for second kitchen for suite if desired. Detached insulated double garage with room for additional parking behind. Many upgrades and updates. Hardwood floors throughout most of main level, on stairs and in upper hall. Double sided gas fireplace. White heritage cabinets with new Quartz counter top overlay and Tiffany glass backsplash. New gas cook top in 2015, all other kitchen appliances 2-3yrs old. Kitchen hood vented outside. Master ensuite features separate shower and jet tub, walk in closet and vaulted ceiling. Shingles redone in 2013, HE furnace new in 2009. Upper deck 14'6 x 12 refurbished and glass and aluminum rails added in 2013. Nat gas hook up for BBO. Stamped concrete rear patio 13 x 17. Central air/ vac included.

"SERVICE EXCELLENCE"

The ability of the School of Physical Therapy graduates to meet the rehabilitation needs of Saskatchewanians is a direct result of the clinical and research-based education



Harrison

brand new digs in the Health Sciences Building.

"We'll be celebrating that as much as we're celebrating this anniversary," Harrison said with a laugh.

As for the future of the school, it ties back to first euphoric days in that hangar by the airport.

"Fifty years ago there was a serious need for physical therapy professionals and researchers to be a part of the health professional teams to help improve health care for Saskatchewan citizens-that was the incentive." And that is a need the school will continue to meet.

> Marg Sheridan is the online communications co-ordinator in the College of Medicine.

U of S adopts new secondary logo policy

JERI PARKHURST

The new secondary logo system for the University of Saskatchewan has officially launched.

Based on feedback from across campus that the old combined logo had too many limitations, the marketing and communications team devised a new, more flexible system.

"The new secondary logo will work for our colleges, departments, centres and units," said Ivan Muzychka, associate vice-president communications. "It lets those various units have a logo that is specific to them, while still retaining a strong tie to the University of Saskatchewan. It's that consistency that is important to creating a unified brand for the university."

The new logo system was shared with a number of groups on campus for feedback before going to the policy committee. It was discussed at University Council and ultimately



Muzychka

approved by the Board of Governors.

While the secondary logo system is now university policy, Muzychka recognized that it will take some time for the rollout to be fully realized.

"In places where the new secondary logo can easily be used, it should be used right

OLD COMBINED LOGO SYSTEM



away. However, we feel careful and efficient use of resources takes priority over an immediate transition. We wouldn't want anyone, for example, throwing away stationery that has already been printed because it had the old logo. We would rather they use it up and, when it comes time to order stationery again, use the new secondary logo that is appropriate for that college or department."

There are some exceptions to the new policy. For example, the Edwards School of Business

NEW SECONDARY LOGO SYSTEM



with the named donor, will

available for download, and

more information is available

The secondary logos are

remain in place.

UNIVERSITY OF SASKATCHEWAN College, Admin Department or Centre/Institution Name DEPARTMENT OR PARENT-UNIT IOMEPAGE.USASK.CA

logo, developed in consultation about the logos and their use, at communications.usask.ca.

> Teri Parkhurst is a marketing specialist with Advancement and **Community Engagement.**



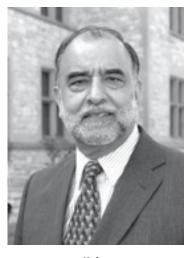
20 years of University Council

KRIS FOSTER

There has been a great deal of change since University Council was created 20 years ago, but a lot has stayed the same.

"Since the beginning, Council has always followed the three principles of academic freedom, collegial self-governance and knowing we are the university's academic governance body," said Dr. Jay Kalra, Council chair and professor in the Department of Pathology and Laboratory Medicine.

Over the past 20 years, Kalra-who is set to begin his third two-year term as chair, making him the longest-serving Council chair—said Council



Kalra

ganization in the College of has also seen some significant Graduate Studies and Research,

that guides all decision-making around the topics is constant. "At Council we enjoy the process. Process should not be undermined; process is your friend, use it wisely. Faculty engagement in collegial discussion is key to this," Kalra explained.

To that end, Kalra intends to do what he can to increase engagement, particularly student involvement in Council. "That has been a goal for some time. We have seen increased student involvement, and we want to see even more. Everyone is welcome to attend Council, even if you aren't a member."

Not to get lost in all of the discussion, he continued, is that Council is celebrating a milestone this year.

Scott Banda, CEO of FCL, and Daphne Taras, dean of Edwards School of Business

DAWN STRANDEN

Co-op partnership benefits students

A new partnership between the Edwards School of Business and Federated Co-operatives Limited (FCL) will ensure students have more opportunities to gain practical work experience while completing their degree.

The Edwards Co-operative Education Program will receive \$500,000 from FCL over the next five years to continue facilitating paid work placements for business students.

More than 300 people were in attendance when the announce-

changes.

"We've come a long way. We've gone through tumultuous times, but we've matured, have become more engaged and have had many healthy discussions to help us move ahead with our academic affairs. We have helped the university grow into one of the leading universities in Canada."

With a new president being installed in October, Kalra expects many more "interesting and healthy discussions" in the year ahead. Some of the topics he anticipates being addressed at Council include the ongoing restructuring in the College of Medicine, the proposed reor-

the strategic enrolment management plan, decision-making around low enrolment programs

I It's time to celebrate because we've come a long way. But as we recognize all the success of the past, we must always be looking to the future.

Jay Kalra

and the continued discussion on ways to make the U of S more welcoming for Aboriginal students.

While the topics change from year to year, the process "This is an important year as Council celebrates its 20th anniversary of its establishment as a representative body under the 1995 University of Saskatchewan Act," he explained. "It's time to celebrate because we've come a long way. But as we recognize all the success of the past, we must always be looking to the future."

To celebrate the anniversary a gala dinner and dance will be held on September 25 beginning at 6 pm in Marquis Hall, and Kalra hopes faculty will have a lot of fun celebrating what the academy has accomplished. 🔳

ment was made Sept. 4 at the Edwards Co-op Networking Open House at Prairieland Park. Speaking to a crowd that included Edwards faculty, staff and students, and the local business community, Dean Daphne Taras acknowledged FCL's commitment to driving student success.

"With FCL's support, we can expand our reach and connect even more students with paid work experience," she said.

Students in their third year of the bachelor of commerce (BComm) are eligible to apply for the eight-month work placement. The program is also open to graduate students in the master of business administration (MBA) program.

Since the program was launched in 2007, more than 400 students have secured paid work placements. In addition to gaining practical job experience in a professional environment, student employability rates increase upon graduation-the employment rate for co-op alumni is 100 per cent.



September 11, 2015 🛛



NEW TO **US**



A siren call to create without limits pulled John David Graham through architecture—confined by physical limitations, clients and budgets—into fine art, a field for unfettered imagination.

"In art making, I discovered freedom I could not experience in practicing architecture," said the assistant professor in printmaking and digital media. "Art making emphasizes process as much as product. Art making allows me to work with my hands in shaping ideas into form. Equally important, I can openly explore visual poetics, and mythological and symbolic storytelling."

Graham grew up in Ottawa and Montreal. He completed his bachelor degree in environmental studies before earning a master's degree in architecture, both at the University of Manitoba. He obtained a bachelor of fine arts from Concordia University in Montreal, then travelled to the University of Oregon for his MFA. He joined the U of S on a one-year term before joining the faculty full time in 2014.

"I have taught studio art in a variety of programs at universities and colleges in Canada, USA and Australia," he said, explaining he was drawn to the Department of Art and Art History by its rich, pluralistic traditions.

In addition to mentoring students and his own creative work, Graham strives to address an underappreciated aspect of art: safety. He cites statistics that show artists lead shorter lives, in part due to toxic chemicals in their creative spaces such as paints and solvents.

"One colleague of mine died prematurely from cancer," he explained, while pointing out a new isolation booth with a dedicated ventilation system he procured for the printmaking studio in the Murray Building.

Graham urges his students to think of safety protocols as part of their toolkit, as essential to their work as pigments, screens and brushes.

"Good artists play, and when you play, you forget—you don't have rules," he said. "Artists need to play, but they need to be safe. I feel very strongly about this. They need to take care of their health. Once that's become second nature, then they can play."







SCIENCECARTOONSPLUS.COM



New master's degree in water security tackles complex issues

MEAGAN HINTHER

With the launch of a new master's degree in water security—the first of its kind in North America-students will learn how to tackle complex issues concerning water availability and quality.

"Our university has one of the strongest water research communities in the world that is examining issues from an interdisciplinary perspective-that's the way we need to examine concerns such as drought, flooding and water quality," said Andrew Ireson, assistant professor in the School of Environment and Sustainability (SENS) and the program's director. "The program will train students to tackle these issues using a holistic approach that incorporates not only the sciences, but also the study of social dynamics and public policy." The Master of Water Security (MWS) programoffered through SENS-is a project-based and professional-style master's degree that trains students to investigate water security issues of regional, national and international

significance.

"Certainly this summer of drought, wildfires and algal blooms in our province has brought water concerns to the forefront, and a realization that our struggles are likely to continue with climate change," said Toddi Steelman, executive director of SENS. "The MWS provides graduates with the



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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*.

Writers: Michael Robin, Lesley Porter Designers: Brian Kachur, Pierre Wilkinson Editorial Advisory Board: Patrick Hayes, Sharon Scott, David York, Sandra Ribeiro, Fiona Haynes, Rajat Chakravarty

tools to tackle the complex problems we are increasingly faced with."

Incoming students will choose from three specialized tracks: hydrology, hydrogeology and socio-hydrology. While the first two tracks study the surface water and the groundwater cycles respectively, socio-hydrology studies the dynamics between human use, control, value and culture related to water and its place in the global community.

"Having three specializations allows us to provide in-depth training in one area of water, such as groundwater, while also having students participate in core courses that broaden their knowledge of other aspects of water manage-

Ireson

ment, current global issues and how we plan in an age of climate uncertainty," said Ireson.

Graduates will be ready to become water scientists, managers and policy-makers in the consulting and government sectors. The first intake of students will begin September 2016, with applications accepted until mid-January.

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

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Creating an inclusive and diverse campus

RRIS FOSTER

Her son, about six years old at the time, told her he didn't want to be brown anymore.

It was during that car ride back from Debden, Saskatchewan, when Elizabeth Duret knew she needed to do all she could to address negative stereotypes regarding Aboriginal people.

"For my son at that age to think that it's not okay to be who he is, was devastating," said Duret, inclusion and diversity consultant at the U of S. "Children aren't born racist; it is a behavior that they learn from friends, parents and media. It was at this pivotal moment that I knew I wanted to be an advocate for these issues."

As a Métis mother of two, Duret knows first-hand the judgments that Aboriginal people encounter. So when she got a phone call offering a new position at the U of S dedicated to supporting a diverse workforce, she accepted the challenge without hesitation.

The endgame for Duret, who started this new position in April, is to increase the diversity of the U of S workforce through recruitment and hiring practices with a strategic focus on Aboriginal people.

With a background as a probation officer, human resource professional and life skills coach, Duret has seen inequity in the form of underrepresentation in the work force and overrepresentation in the correctional system.

"Historically, the systems have negative biases and stereoexplained. "There are systemic barriers because of social constructs. We need to address issues that prevent marginalized people from entering the workforce."

Because Aboriginal engage-

ment has been a strategic priority at the U of S for some time, Duret said she is "coming into a rich opportunity. We are ready to engage in the process, all that is required is guidance, tools and a focused plan."

But there is still a lot to do and the enormity of the task is not lost on Duret. At the top of her mind is the significant gap between Aboriginal representation on the U of S workforce—a figure that is currently 2.6 per cent—and the provincial target of 12.2 per cent set by the Saskatchewan Human Rights Commission.

While Duret stressed that "no one wants to be hired just because the university is trying to reach a number," she said there are some relatively simple steps that will help make the university an employer of choice. She suggested that those involved in the hiring process attend cultural events and actively promote the U of S as an employer of choice; posting jobs in Aboriginal publications that reach Aboriginal communities; and including language in all hiring advertisements stating that the university values diversity and that Aboriginal engagement is a priority.

Duret said she and her types attached to them," she human resources team are excited about how they can search out opportunities that will "help make the university the best place for Aboriginal people in Saskatchewan and Canada to work."

Some of the other initia-

Elizabeth Duret, inclusion and diversity consultant

tives being pursued include analyzing skill and experience requirements for positions, creating interview questions that highlight diversity, and addressing systemic stereotypes and barriers in hiring and retention practices.

To that end, Duret's first priority is to create a safe environment on campus. "We need to create space to talk about stereotypes and biases. We all have them; I have my own. To face them you need to be honest with yourself. It's not about blame or guilt, but about self-reflection and awareness."

To help faculty and staff better understand biases, Duret holds workshops that tackle common stereotypes on everything from farmers, ex-cons and overweight people to Aboriginal people, gender and sexually diverse individuals, and people with learning disabilities and mental health issues.

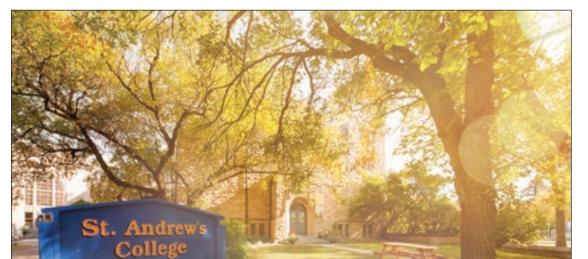
"We explore stereotypes and how they play out in our work and personal life. We question where they come from and how they can be broken down," she said. "Someone can be ignorant only one time because once you are aware of your biases, you

KRIS FOSTER

make the unconscious conscious. This knowledge is powerful and can create a change in attitude towards diversity."

It is a long road ahead, but Duret already has a picture of success in mind.

"We will know we are successful when we see increased recruitment, retention and success of Aboriginal students alongside the successful recruitment, retention and advancement of staff and faculty. I believe there is a strong correlation between the success of Aboriginal students and the presence of Aboriginal faculty and staff." ■







VIDO-InterVac Community

Tuesday, September 15, 2015 7:00 PM

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Congratulations to the U of S **School of Physical Therapy** on celebrating 50 years!

medicine.usask.ca/pt



Ms. Dressup Costumes bring fiction, sci-fi and fantasy to life

LESLEY PORTER



Jamie Fast shows her fandom by dressing up as her favourite characters, from Spock, Princess Leia and Lara Croft.

SUBMITTED

Jamie Fast has the secret to eyebrows—glue stick.

"Just rub it over your eyebrows and apply face powder on top," she explained. "Then once it's dry just draw them on, Vulcan-style."

A mild-mannered student central officer by day, by night, Fast battles the evil empire as an avid cosplayer, a term that describes fans who dress up as their favourite characters from comic books, video games, movies and television shows, often from the science fiction or fantasy genres. Thanks in part to very dedicated online communities devoted to it and a rise in the number of fan conventions, cosplay—a blend of the words costume and play-has grown exponentially in recent years, not just as a hobby, but as an art form. Fast got into cosplay after attending her first comic book convention in Calgary in 2012. She had always loved Halloween and making realistic costumes of her favourite comic book and video game characters. She was not aware, however, of those who did it the other 364 days of the year.

said. "I think if I would have re-creating the perfect Spock known what it was, I would have done it when I was younger."

> Impressed by the costumes and the warm, welcoming community, she decided to get more involved. She was nervous at first, thinking she might be too old to participate, but that anxiety faded once she hit the convention room. "I felt less stressed because I felt like I was in character," she said. "You're just expressing the fandom and are surrounded by other people who love it."

Fast has two main cosplays.



"I didn't realize that it was a thing, that there were people who did that or even that there were comic conventions," she

The first is Princess Leia from the first Star Wars film when she gets rescued from the Death Star-think white hooded dress and the iconic cinnamon bun pigtails. Her other cosplay is Lara Croft, heroine of the Tomb Raider mega-franchise encompassing video games, comic

books, movies and amusement park rides. A long-time fan of the series, Fast was inspired to create a cosplay version in 2013 when the character was redesigned. "So many female characters, in the comic world especially, are very overly-sexualized. Her new design was much more realistic. I was like, 'I need to do this now!'"

A self-described perfectionist, Fast's attention to detail with her costumes is meticu-

Jamie Fast, student central officer

lous. She does a lot of costume research online, where kindred cosplayers are happy to help and offer advice. That said, she is well aware of her limits. "I'm a disaster with a sewing machine," she said, opting to outsource the Leia gown to a friend who is a seamstress.

The result was worth it: while attending the Calgary convention last year she was approached by a woman whose daughter wanted a photo with Princess Leia. "It was adorable,"

she said, "and it was exciting for me to think, 'oh, I was a part of that, I made her that happy."

Though her work keeps her busy (she is also an assistant coach for the Huskies track team), she tries to attend as many comic conventions as possible, and is also involved in the local cosplay community.

"In Saskatoon, it's really growing," she said. "It's that geek community that didn't exist when I was younger."

In past years, she also

found time to volunteer for the Saskatoon Comic and Entertainment Expo, but this year she is taking off so she can attend with her nephew. She is still debating which costume to wear, but is leaning towards Leia for one very obvious reason.

ESLEY PORTER

"William Shatner is going to be there, and he has a play feud with Carrie Fisher [who played Leia] and I think it would be hilarious if I could get a photo with him in my Princess Leia costume."

Data delivers student success

KRIS FOSTER

There is no shortage of data on library or the PAC. campus, but finding a use for it is sometimes a problem.

With an eye to improving student success and retention, Jim Greer has found new uses for student data at the U of S.

"There is a ton of data available about our students," said Greer, senior strategist on learning analytics. "We are developing projects that use the data we have on hand to make students' lives better and improve and policy issues, Greer their educational experiences."

Greer, who was recently seconded by the Office of the Vice-Provost of Teaching and Learning to lead the development of learning analytics, said the university has been collecting student data actively and passively. Active data collection includes grades, addresses, demographics and high school information. Passive data consists of everything from signing into PAWS and checking email to using Blackboard or swiping a student card at the



Greer

"We can use this data in two ways. We can look at supporting students in courses and we can try to improve our academic courses and programs," said Greer. "There can be a 'big brother' element to all of this, so one of the first things we need to do is develop policies that prevent inappropriate use of student data."

Looking past the privacy explained that student data at the U of S fall into one of four categories: personal, academic, demographic and activity data.

"Personal information is no one's business, but academic, demographic and activity data can be used to help predict if a student is likely to be successful or not," explained Greer, former director of the University Learning Centre from 2006 to 2014. "This type of prediction can help identify students at risk so we can offer academic advising or other supports."

Greer is clear that caution must be used when profiling because stereotypes can lead to errors, but activity data can help in that regard.

One early alert project from last year that leaned heavily on student data is the Student Advice Recommender Agent (SARA), which was piloted in a first-year biology course with about 2,000 students enrolled over two terms.

"Considering factors like expected grade, demographics and likelihood of attrition,

SARA provided personalized weekly advice to each student in the class through Blackboard," said Greer.

SARA might, for example, point a student struggling with a concept to online video resources, provide an encouraging message, or recommend Residence-based programs to students living in residence.

"There were half the number of fails and a third more A-grades than the previous year," said Greer of SARA's results. "It can't take all of the credit for these improvements, but it certainly

made a difference."

SARA will again be used in first-year biology and will also be extended into certain first-year classes in the College of Engineering.

Greer said student data could also be used to improve courses and programs by identifying gaps and bottlenecks, and analyzing how students flow through programs.

"Sometimes classes are just scheduled at the wrong time. It could be as simple as changing the time a class is offered," he said.

Although still in the infancy stage at the U of S, learning analytics have numerous applications, said Greer who is currently putting together a campus-wide team made up of data analysts, database specialists and learning and technology experts.

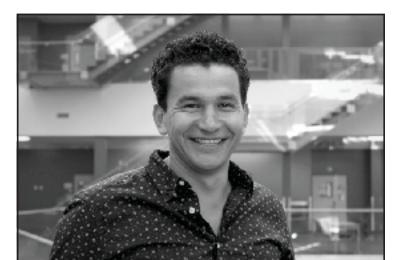
"There is lots of potential here and we know we can improve retention rates and better support our students. We are here to help colleges and departments thinking about how to use data to help students learn more. That's good for everyone."



KRIS FOSTER

BURNING DOWN THE HOUSE

A Dorm Burn demonstration was held on Sept. 3 in front of the Peter MacKinnon Building to show students, faculty and staff how easily a fire can start and how quickly it can spread. The Saskatoon Fire Department and U of S Facilities Management Division, Safety Resources, Protective Services, Consumer Services and the USSU hosted the event as part of Welcome Week.





The Reason You Walk a conversation with **Wab Kinew**

author, journalist, hip hop artist

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UNIVERSITY OF DARKSTCHEMAN College of Arts and Science

ATMANDSCRIME ASSAULT



The Board of Governors of the University of Saskatchewan invite you to join them for a reception celebrating the work of Gordon Barnhart during his tenure as interim president and vice-chancellor of the U of S.

> WEDNESDAY, OCTOBER 7 4:30 - 6 PM **MARQUIS HALL**

PROGRAM BEGINS AT 5PM **REFRESHMENTS AND HORS D'OEUVRES WILL BE SERVED RSVP** TO ALUMNI.USASK.CA/EVENTS/REGISTER





DEDICATED TO THE EDUCATED

> The College of Education held its inaugural pinning ceremony on Sept. 2. Students in the college received a special pin and then signed an oath to demonstrate their dedication to the teaching profession.

📸 JEFF DRAKE

Master by design Jay Wilson receives Master Teacher Award

LESLEY PORTER

It has been a full circle experience for Jay Wilson, the latest recipient of the U of S Master Teacher award.

Wilson, department head of curriculum studies in the College of Education, received the university's highest teaching award at

spring convocation in June, and said he was lucky to be taught by past winners of the award.

"I look at the list of names on the Master Teacher wall, and there are people there who taught me," he said, listing Robert Grogin, Angela Ward and Rick Schwier as those who inspired him. Besides now seeing his name alongside his mentors, Wilson feels a sense of accomplishment knowing that what he does meets the needs of his students and peers.

"The word that I've been



and since 2011 he has shared his knowledge and passion in this area as an Apple Distinguished Educator. This global team of teachers and professors work with the Apple education team to influence design to make their products more effective learning tools.

"We're not product testers but we are sharing our knowledge and they are incorporating that into some of the work that they're doing as far as design and accessibility," he said, adding that getting free Apple products, unfortunately, is not a perk of the job.

Despite all the teaching accolades—including the Provost's Outstanding New Teacher Award—and affiliation with one of the world's biggest companies, Wilson knows how

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university of saskatchewan Retail Services a division of consumer services think of designing instruction as exciting, but it is. It has evolved into that notion of how we carefully plan the learning experience for students."

hiding behind is 'validation,'"

he said. "You never know if what

you do is making a difference.

What makes it different and

special for me is that validation

of something I hold near and

on him, but in a good way. "You

can't hide in the weeds when you

graduate and graduate courses,

and has research interests in

educational design, which

involves creating and planning

the best possible learning experience for students. "I use the

term 'throwing it into the wind,""

he said of the design process.

"Sometimes it goes where we

want, sometimes it gets blown

back in our face. People don't

win a Master Teacher award."

He said that puts pressure

Wilson teaches both under-

dear is valued by other people."

Another area of interest for Wilson is the application of technology in the classroom,

to keep his humility in check.

"I still had to go and clean the litter boxes the day after the Master Teacher award ceremony," he said. "Those are the things that put life into perspective." ■



Master Teacher Jay Wilson

ESLEY PORTER

Kristin Bogdan has been appointed as science and engineering librarian, effective August 10. Bogdan was previously at Yale University Library as the science and social science data librarian.

Elizabeth Stregger has been appointed as collection services librarian, effective August 31. Stregger was previously a librarian at the University of Manitoba.



Jim Greer has been seconded into the role of senior strategist, learning analytics in the Office of the Vice-Provost Teaching and Learning. Previously, he was the director of the University Learning Centre from 2006 to 2014.

Bill Rafoss, a sessional lecturer in St. Thomas More College's Dept. of Political Studies, was elected to the Board of Directors for Amnesty International Canada.

· Jack Gray appointed vice-dean, research, scholarly,

Greer

John Gordon, Division of Respirology, Critical Care and Sleep Medicine, Dept. of Medicine, has been elected as vice-president of the Canadian Society for Immunology (2015-17).

The Office of the Provost and Vice-President Academic has made the following appointments:

 Robert Tyler appointed for a five-year term as associate dean, research and graduate studies, College of Agriculture and Bioresources effective July 1, 2015.



From Page 1

Saskatchewan.

diverse student body."

McDougall said she expects

Aboriginal students to increase

as the year goes on, as there

is once again a self-declare

campaign beginning in late

International

a total of 2,072 self-declared

Aboriginal undergraduate and

graduate students and 2,238

international undergraduate and

graduate students enrolled in fall

term classes at the University of

 Don Gilchrist appointed head of the Dept. of Economics for a three-year term effective July 1, 2015.

academic, College of Arts

and Science for a five-year

five-year term effective July 1, 2015.



Gray

year term effective July 1, 2015.

 Carol Henry appointed assistant dean, division of nutrition and dietetics in the College of Pharmacy and Nutrition for a three-

Dr. Susantha Gomis



DesBrisay

appointed as head of the Dept. of Veterinary Pathology for a five-year term effective July 1, 2015.

• Dr. Preston Smith, in addition to continuing in his role as dean of the College of Medicine, has been appointed to the new position of vice-provost

health. The primary responsibility is for liaison with external agencies, particularly health regions and



Gomis

the ministry of health.

Smith Lois Berry appointed interim assistant vice-provost, health for one year effective July 20, 2015.

· Dr. Doug Freeman re-appointed to a second five-year term in the position of dean, Western College of Veterinary Medicine effective March 1,

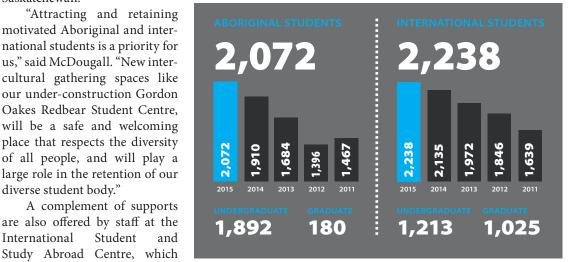






G At the beginning of our third integrated plan we set goals for our college enrolment numbers, and we are where we projected we would be by 2015.

Patti McDougall



September.

"To help support and better understand the needs of Aboriginal students, each term we invite Aboriginal students, who haven't already, to self declare their Aboriginal ancestry," said McDougall. "We use this

information to develop and maintain effective programs and services that support Aboriginal students' academic and personal success."

Meghan Sired is a communication co-ordinator in Student and **Enrolment Services Division**.



FESSIONAL PRINTI NG SER

· Gordon DesBrisay appointed vice-dean,

help students new to Canada and artistic work, College of Arts and Science for a acclimate to a new county, city and university. the number of self-declared

Berry

2015 • Dr. Gill White appointed

for a one-year term effective Sept. 1, 2015.



Freeman

 Shari Baraniuk appointed to the position of interim chief information officer and associate vice-president, Information and Communications Technology for a period of up to one year beginning on Aug. 31, 2015.

• Ganesh Vaidyanathan appointed head of the Dept. of Accounting for a three-year term effective July 1, 2015.

 Steve Milosavljevic appointed acting vice-dean, research, College of Medicine for a term of up to one year effective Aug. 1, 2015.

• Dr. Joseph Blondeau reappointed as acting unified head of the Dept. of Pathology and Laboratory Medicine effective July 1, 2015 for up to one year.

 Angela Busch appointed as the acting director of the School of Physical Therapy for a six-month term effective Aug. 1, 2015.

• Dr. Tom Smith-Windsor term extended as associate dean, Rural and Northern Programs for a period of up to one year effective Oct. 1, 2015.

• Yvonne Shevchuk re-appointed as associate dean, academic affairs, College of Pharmacy and Nutrition for the period of July 1, 2015 to June 30, 2020.







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Coming **Events**

Courses/Workshops

Edwards School of Business Executive Education

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

- Sept. 9 11. What the Non-financial Manager Needs to Know About Financial and Managerial Accounting - Saskatoon
- Sept. 15 Dec. 8, Supply Management Training: Introduction to Procurement -Saskatoon
- Sept. 20 25, 2015, The Labour-Management Relationship Certificate Program Saskatoon
- Sept. 29 Oct. 1, The Business Analyst's Course - Saskatoon
- Oct. 1 2, 2015, Operational Excellence Certificate: Analyzing and Improving Office and Service Operations (Lean Office) – Regina
- Oct. 5 6, Operational Excellence Certificate: Master Clinic on Solving Tough Problems – Saskatoon
- Oct. 5 7, Digital and Social Media Program: Strategy and Tactics – Saskatoon
- Oct. 7 8, Operational Excellence Certificate: Process Metrics, Management, and Controls – Saskatoon
- Oct. 8, Introduction to Digital and Social Media for Senior Managers – Saskatoon
- Oct. 14 Feb 27, The Masters Certificate in Project Management – Regina
- Oct. 15 Apr. 9, The Masters Certificate in Project Management – Saskatoon
- Dec. 7 11, Certified Coaching Training – Saskatoon

Library Researcher Series

The Library Researcher Series provides workshops on interdisciplinary topics of relevance to the research of graduate students and faculty. All sessions are free and registration is not necessary. For more information visit libguides.usask.ca/ LibraryResearcherSeries

- Sept. 29, noon 1 pm, Murray Library, room 161, Comprehensive Lit Review – Part A
- Sept. 30, 3:30 4:30 pm, Health Sciences Library, EndNote Desktop
- Oct. 6, noon 1 pm, Murray Library, room 145, Comprehensive Lit Review – Part B
- Oct. 7, 3:30 4:30 pm, Murray Library, room 161, Citation Manager Overview: Which One is Right for You?
- Oct. 14, 3:30 4:30 pm, Murray Library, room 145, RefWorks
- Oct. 20, noon 1 pm, Murray Library, room 145, WestLaw... More than Just for Lawyers
- Oct. 21, 12:30 1:30 pm, Murray Library, room 145, Indigenous Studies Research Tools: Academic Hunting and Gathering in the Digital Age, and Oct. 27, noon – 1 pm Murray Library, room 161
- Oct. 28, 3:30 4:30 pm, Murray Library, room 102 Comprehensive Lit Review -Part A
- Nov. 3, noon 1 pm, Murray Library, room 145, Zotero

following the film. Everyone is welcome. General admission: \$7 (\$5 for eniors and students). For more information contact: Sabrina Kehoe at sabrina.kehoe@usask.ca.

Languages

For more information, visit learnlanguages. usask.ca or call 306-966-4355 or 5539 Multilingual Conversational Language Classes from Sept. 21 - Dec. 2:

- French levels 1 to 7: \$215 (GST exempt) • Spanish levels 1 to 7: \$225.75 (GST
- included) Japanese levels 1 to 4: \$225.75 (GST included)
- Japanese for the Traveller \$252 (manual and GST included)
- German levels 1 to 3: \$225.75 (GST included)
- Italian levels 1 & 2 \$225.75 (GST included)
- Portuguese level 1 \$225.75 (GST included) · Cree level 1: \$236.25 (materials and GST
- included) Textbooks and workbooks are extra
- unless otherwise indicated. • Spanish Weekender Oct. 9 – 11; ideal for the traveller who has little or no Spanish-speaking skills, 20 hours over 2.5 days, cost: \$315.00 (manual, Saturday and Sunday lunch and GST included).

Community Arts

Explore your creativity and develop skills in drawing, painting, sculpture, photography, glass, jewelry making, fiber art, graphic design, art history and more. These courses help you gain confidence as you develop your portfolio. Classes are taught by professional artists. Take classes for general interest or work toward a certificate. For more information, visit ccde.usask.ca/art. Register online or call 306-966-5539 Fall classes start the week of Sept. 12.

Seminars/Lectures

The Reason You Walk - A Conversation with Wab Kinew

Sept. 21, 1 – 2:30 pm, Neatby-Timlin Theatre, Arts Building (Arts 241), the College of Arts & Science's Interdisciplinary Centre for Culture and Creativity is honoured to be hosting a free public lecture by Wab Kinew, one of Canada's foremost Aboriginal public figures.

Assessing Treatment Change in Sexual Offenders

Sept. 17, 2015 at 4-5pm in Arts 153, Mark Olver, director of Clinical Psychology Training, Department of Psychology, will give a talk entitled, "A Zebra Can Change its Stripes... Sometimes: Assessing Treatment Change in Sexual Offenders." Members of the university community and the general public are welcome to attend this presentation. which is part of the Department of Psychology's monthly colloquium series.

Miscellany

Campus Career Expo

Health will host its annual poster fair showcasing its thesis students' research and the MPH student practicum projects. Visitors are welcome

University Club

For more information about upcoming events, visit usask.ca/uclub. To make a reservation call 306-966-7775

Pre-Game Tailgate Parties

Join us for Huskie game nights Sept. 18, Oct. 16 and 23 from 4:30 - 7:30 pm for fun tailgate food and drinks before the game.

Italian Wine Makers Evening

Oct. 2, 7 pm, Meet Angelo Dabello from Rocca Di Castagnoli-Alimenta, Siena, Italy. Sample his spectacular wines and enjoy beautifully paired foods.

Thanksgiving Family Dinner

Oct. 11, 5 pm, bring the whole family for all of your Thanksgiving favorites.

Annual General Meeting

Oct. 28, noon, Window Room, University Club Annual General Meeting.

Dinner Theatre with Greystone Theatre

Oct. 15, cocktails 5:30 pm dinner at the University Club and, then Picasso at the Lapin Agile at Emrys Jones Theatre at 7:45 pm.

Conferences

Assistive Technology and **Disability 2015 Conference** Disability Services for Students is presenting the 2nd annual Assistive Technology and Disability conference at the U of S from Oct. 22-23 at the Graduate Students Common. Assistive technology

specialists, service providers and service users will come together to learn about advances in assistive technologies from low to high tech solutions and their applications for education, work life and personal use. Sessions on the new provincial disability strategy and post secondary practices will also be presented. This conference is free to attend and open to everyone, but registration is required. For session information and registration, visit http://students.usask.ca/events/atc.php

The Arts

A Call for Justice - Fighting for Japanese Canadian Redress (1977 - 1988)

A Call for Justice tells a story of human rights and the enduring perseverance of the Japanese Canadian community who suffered so much from 1942-1949. In honour of the 25th anniversary of the signing of the Redress Agreement with the Government of Canada in 1988, the Nikkei National Museum is presenting the first traveling exhibit celebrating the emotional struggle to achieve an apology and acknowledgement for these unjust treatments. This exhibit, on display at

Diefenbaker Canada Centre until Oct. 12, will examine the 10-year fight using historic photographs, artifacts, poetry, personal statements, art and video.

Around the Bowl

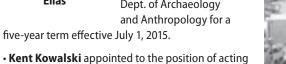
· Lorin Elias, appointed interim associate dean, student affairs, College of Arts and Science for the period July 1, 2015 to June 30, 2016.

• John Moffat appointed as acting director of the School of Professional Development for a six-month term effective July 1, 2015.

Elias

of July 1, 2015 to June 30, 2016.

 Angela Lieverse appointed as head of the Dept. of Archaeology and Anthropology for a



Lieverse

• Fran Walley appointed to the position of associate dean, College of Agriculture and Bioresources for a five-year term effective July 1, 2015.

associate dean, College of Kinesiology for the period

• Dr. Kent Stobart appointed vice-dean, medical education, College of Medicine for a five-year renewable term effective Sept. 1, 2015.

• Dr. John Thiel, acting academic head of the Dept. of Obstetrics, Gynecology and Reproductive Sciences for up to one year effective July 1, 2015.

• Dr. Malgorzata Kaminska appointed interim assistant dean, curriculum, in the College of Medicine for up to six-months beginning July 1, 2015.

• Ken Wilson appointed as head of the Dept. of Biology for a five-year term effective July 1, 2015.

• David Torvi appointed as head of the Dept. of Mechanical Engineering for a five-year term effective July 1, 2015.

• Dr. Reg Anholt appointed assistant dean, clinical affairs, College of Dentistry for a five-year term effective March 1, 2015.

• Dawn Wallin appointed to the position of associate dean, undergraduate programs, partnerships and research, College of Education for a five-year term effective Aug. 1, 2015.

• Dr. Patricia Blakley appointed to the position of associate dean, undergraduate medical education, College of Medicine for a five-year term effective Sept. 1, 2015.

• Dr. Chris Clark appointed to the position of associate dean (acting), academic, WCVM for the period of Sept. 1, 2015 to Aug. 31, 2016.

• Dr. George Mutwiri appointed interim executive director of the School of Public Health effective July 1, 2015.

• Dr. Suresh Tikoo, appointed interim assistant executive director (research) curriculum in the School of Public Health for a six-month term beginning July 13, 2015.



• Dr. Cheryl Waldner, appointed to the position of interim associate executive director, academic, School of Public Health for a six-month period beginning July 13, 2015.

• Raj Srinivasan term as head of the Dept. of Mathematics and Statistics extended for six-months effective July 1, 2015.

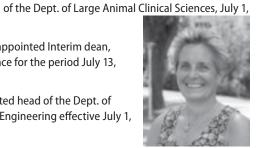
• Dr. Murray Jelinski appointed as the acting head

Waldner

2015 to June 30, 2016.

• Peta Bonham-Smith appointed Interim dean, College of Arts and Science for the period July 13, 2015 to June 30, 2016.

Mehdi Nemati appointed head of the Dept. of



- Nov. 4, 3:30 4:30 pm, Murray Library, room 161, Comprehensive Lit Review – Part B
- Nov. 17, noon 1 pm, Murray Library, Rm. 145, Mendeley
- Nov. 18, 11:30 am 12:30 pm, Murray Library, room 145, Finding and Using Data

Beyond Borders: A Workshop on Transnationalism

Sept. 11, 1:30 - 2:30pm, Neatby-Timlin Theater, Donna Gabaccia, professor of history at the University of Toronto, will present keynote lecture The Past in Motion: Reflections on Transnational Scholarship. No registration required. All are welcome. For more information please contact Elizabeth Scott elizabeth.scott@usask.ca. This workshop is presented by the Interdisciplinary Centre for Culture and Creativity and the Department of History.

ICCC Movie Night

Sept. 22, 7 – 9pm, The Broadway Theatre Naomi Campbel is about a trans woman from Chile named Yermén who tries to formulate a plan to get sex reassignment surgery. Join Manuela Valle-Castro, ICCC visiting fellow, and guests for a discussion

The Campus Career Expo, Sept. 16 from 10 am to 4 pm in the Physical Activity Complex, is an excellent opportunity to enhance your networking skills, meet with professionals in a wide array of fields, and obtain invaluable information for your job search. Brought to you by the SECC, this event will help you learn more about the world of work and find potential areas of employment including future part-time, summer, full-time or internship positions. For more information visit students.usask.

The University of Saskatchewan Women

ca/events/fairs/campus-career-expo.php

On Sept. 20, 2 to 3:30 pm at the W.A. Edwards Family Centre, 333 4th Avenue North, The University of Saskatchewan Women is holding its fall coffee party and membership registration. This is an opportunity to learn more about the social activities enjoyed by this association of present, former and retired women faculty and spouses or partners of other faculty members. Cost is \$15 per year.

School of Public Health Poster Fair

Oct. 23, noon to 3:30 pm, Health Sciences D-wing Atrium, the School of Public

swatch

Swatch, by Alexandra Thiesson, is on display at the Gordon Snelgrove Gallery from Aug. 31 - Sept. 11. A reception will be held on Sept. 11 from 7 – 10 pm.



Next OCN: Friday, Sept. 25 Deadline: Thursday, Sept. 17

Email ocn@usask.ca

Chemical and Biological Engineering effective July 1, 2015 to June 30, 2020.



Bonham-Smith

dean, research and graduate studies, College of Law for a five-year term effective July 1, 2015.

• Kalowatie Deonandan appointed as the acting head of the Dept. of Political Studies for a six-month term effective July 1, 2015.

Heavin

Loleen Berdahl appointed as head of the

• Heather Heavin appointed

to the position of associate

Dept. of Political Studies effective January 1, 2016 to June 30, 2020.



Berdahl

• Sam Butler appointed acting head of the Dept. of Geological Sciences for a six-month term effective July 1, 2015.

• Dr. Bindu Nair appointed assistant dean, student services, College of Medicine for a five-year term effective September 1, 2015.

• Janet Hill appointed as the acting head of the Dept. of Veterinary Microbiology for up to one year effective July 27, 2015.

Art and science at the foundations of the universe

MICHAEL ROBIN

At the very foundations of the universe, where even atoms are huge, there lies a bewildering menagerie of oddly named particles like leptons and quarks, baryons and gluons, and of course, the famous Higgs boson, all of which should be beyond our comprehension—but they're not.

As Tom Steele explained it, mathematics can encompass concepts impossible to express in any spoken tongue. Even the way that it is read differs from regular language, seeming to draw on both the logical areas of the brain as well as those more attuned to art.

"It amazes me that we can use mathematics to describe the physical world," said Steele, a theoretical particle physicist particles-they're called exoticsand head of the Department of Physics and Engineering Physics.

"I don't see any reason why this should be. Why should we even be able to formulate the complexity of the universe and physical phenomena with mathematics?"

To illustrate, he pulls a substantial-looking hardcover book from the shelf lining a wall of his office. He flips it open to a page covered with short paragraphs of English text sandwiched between much longer dense blocks of complex mathematical symbols. These describe concepts in graduate-level quantum mechanics.

Steele explained these blocks of math are not read left-to-right, top-to-bottom, like text. Rather they are read both as individual elements and as a whole, similar to how an art aficionado would take meaning from a painting.

The art analogy is also used in his own specialty, the exotic particles within the field of quantum chromodynamics (QCD). Here, quarks are assigned colours—a useful way charges "mix" together to form larger particles. "Quarks are not literally red and green and blue, but it's a good concept to describe how the actual charges come together," he said. "The underlying mathematics is a lot like the phenomena of colour, so that's why it's used."

Steele is particularly interested in the idea of colour confinement-that is, anything in nature should be made up of combinations of three "colours" of quarks (actually three colours and three "anticolours," since each quark has an antimatter cousin). An analogy would be a painter only being able to create certain hues from a limited set of starting pigments.

"Once you have the idea of colour confinement, there are a whole bunch of different things you can do," Steele said, citing various odd combinations of quarks and even "glueballs" which are conglomerations of pure gluons.

"I've been chasing those all my working career," he said.

A prolific researcher, Steele has been continuously funded through the Natural Science and Engineering Research Council for more than 25 years, producing more than 100 papers. The most recent, which came out in July, was inspired by an experiment at the Large Hadron Collider aimed at shedding light on why the universe is composed almost entirely of matter but almost no antimatter.

"It's one of the big unanswered questions in physics," Steele said. "Why is the universe dominated by matter instead of antimatter? There's a clear imbalance in the universe, it's a big question and it's unresolved."

It's the type of fundamental question that has kept Steele engaged for decades.

"Why shouldn't we know what matter is ultimately made of?" he said. Steele suggested starting with something easily understood, like a table. We understand its chemistry, that is, what molecules the table is made of, and even the atoms to understand how their various that comprise those molecules. But beyond that, things become less certain. "That leads us to all sorts of other questions, like how neutrons and protons interact with electrons, how quarks interact with each other-what are the basic principles of that that make matter the way it is?" Steele said.



Tom Steele, head of the Department of Physics and Engineering Physics

One of the latest big questions in Steele's mind is dark matter. Little is known about it, but astronomers observe gravitational forces in deep space where they can otherwise see nothing.

Something invisible is pulling on the regular matter. Steele hopes theoretical particle physics might provide a clue to this mystery of the universe.

"The Higgs (boson) is

supposed to impart mass to matter, and we know dark matter also has mass," he explained. "Because of this, we're hoping the Higgs might give us a window into dark matter."



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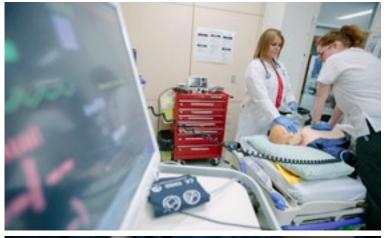


The University of Saskatchewan deals in knowledge; it's in every lab, classroom, facility and office on campus. This year's back page feature is searching for that specialized knowledge that creates beautiful results and helps make the U of S a wonderful place to work and study.

Share your knowledge at ocn@usask.ca



Malcolm Whyte, simulation technology specialist





Model behaviour

Malcolm Whyte wears many, many hats.

As a simulation technology specialist, he recreates medical and clinical scenarios for health science students in the interprofessional Clinical Learning Resource Centre (CLRC). This requires a delicate, tactful mix of skills and knowledge, ranging from information technology and audio/ video to health care, education and theatrics.

"My day can go from putting makeup of a burn on a mannequin to setting up the medical scenario and getting supplies ready to scripting out what we're going to say and programming a mannequin," he said.

In total, he manages about 30 mannequins, which are used at distributed learning sites across the province. But these mannequins are no dummies. The most realistic, or high-fidelity, mannequins can be programmed to speak, bleed, sweat, blink, seize and respond physiologically to medical intervention. "They're basically advanced computers with arms and legs," he said. "They have different parts in them that mimic us."

With such versatile technology at his fingertips, Whyte can let his creativity flow with certain simulations, especially if he's providing the voice of the patient. "Sometimes I like to play a 40 year old who cut his finger on a tractor. He gets septic shock, and I like to give him a Southern kind of accent," he said with his best low drawl.

While amusing, the dash of personality adds to the realness of the scenario and keeps the students engaged with their patient. "It helps people buy in because they realize, 'oh, I'm not just looking at this plastic thing, this is an actual person and I have to treat him like an actual person." For Whyte, who has a background in IT, electronics and broadcasting, seeing that "lightbulb moment" is very rewarding.

He said that the main advantage of simulation technology is to give students a controlled place to practice and think on their feet. "We make things as real as we possibly can here so if you make a mistake—which in a

way, is kind of encouraged—that this is a safe learning environment."

