



GREEN & WHITE

A L U M N I M A G A Z I N E

FALL 2011

Rooted in Wheat Science

Curtis Pozniak & Pierre Hucl
on sequencing the wheat
genome



■ Putting a Trace on Food Fraud

Are you really eating what you think you are? A new technology may make food fraud a thing of the past.

■ Feeding People Fairly

A model of land management increases environmental sustainability and economic viability for land owners.

■ Breeding a Better Beer

Next time you enjoy a cold one, raise your glass to decades of barley research and breeding.



Move-in day at the new residence buildings in College Quarter. Spruce and Aspen Halls are the first U of S residences to be built in over 30 years. For more photos visit usask.ca/greenandwhite/photos

GREEN&WHITE
ALUMNI MAGAZINE

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LISA LANDRIE

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Editor's Note

It started with the idea of a simple coat of paint to freshen-up our kitchen. But once the idea of change gained momentum, there was no turning back. I had to accept the inevitable—we were looking at a major renovation. Months of planning and coordinating, and a whole lot of elbow grease later, the

finished product proved our investment was worth the effort.

It started with a reader survey and some ideas from a conference to freshen-up the *Green & White*. But, much like the kitchen renovation, once we started exploring improvements there was no turning back. Months of planning and coordinating, and a whole lot of proverbial elbow grease later, I am confident that, even though I cannot see it as I write this, the finished product will prove our investment is worth the effort.

Thank you to the over 4,100 readers who completed the reader survey from the spring issue, and congratulations to Rita Priestley (BA'67, Dip/Ed'69, BEd'75, PGD'75, MEd'76), who won the iPad 2 for completing the survey.

Comments ranged from flattering to humbling, and everything in between. Results are pretty clear that, overall, the *Green & White* hits the mark as your alumni magazine.

It is not possible to implement every great suggestion into the 32 pages of this magazine, but I am confident the changes we have made—and the things we have kept the same—reflect your desires expressed through the survey, particularly maintaining your connection to the U of S, the campus and its students, and to read about your fellow alumni.

Improvements do not end here. Keep telling us how we can make your alumni magazine better and submit your story ideas.

This issue of the *Green & White* focuses on food security and sustainability. The U of S has been a leader in this area since day one. From new models of land management, to breeding better crops for a refreshing malt beverage, to addressing counterfeit foods, and sequencing the wheat genome, the U of S and our alumni continue to be world leaders in the field.

Enjoy reading your *Green & White*.

Derrick Kunz, BComm'96

You said it. Comments from the reader survey

Other than comments that indicate readers like the magazine as it is or that we are “doing a fine job,” requesting to forego one’s paper copy of the *Green & White* and read it online was one of the most common comments. If that is you, let us know and we will take care of your request.

Here are a few samples, with two of them edited for length only, of the feedback we received from the reader survey. Please note, due to the anonymous structure of the survey, we are unable to process specific requests or answer individual questions. If you asked any questions or provided feedback for which you expect an action or response, please contact the *Green & White* by email, gw.editor@usask.ca, or by calling 1-800-699-1907.

“I go directly to the class notes to see if anyone I know is in the news or has died. It does take me back to my university days with great pleasure, and I love the old photos of campus and campus events during the time I was there. I do not nor will I ever read the Green and White on line.”

“The overall look & feel is a bit dated – it could made more appealing to the eye.”

“One main impact of the Green and White is its role in providing a feeling of ‘connectedness.’ I have had interesting conversations with comparative strangers based on articles we had both read in the Green and White. We felt connected to each other and to the university, with the Green and White as the medium. In our current lifestyle, we spend so many hours in front of a screen. That is why it is so much better to have a paper copy of the magazine. The arrival of the Green and White is a call to relax, to read over the impressive achievements of so many alumni and faculty, and to feel a sense of reflected glory.”

“The Green and White covers a diverse and interesting spectrum of content.”

“It’s boring.”

“Great magazine overall, good design, great writing.”

“I’ve seen a number of alumni magazines improve in quality and professionalism over the past few years...unfortunately the G&W is not one of them.”

“There’s a strong science and business focus. More on the arts and humanities would be much appreciated”

“In all the years that Sask. was a ‘have not’ province, The G & W was able to tell a continuing story about what the province had – a bright spot – the U of S. The G & W gives me an idea of what the U of S is accomplishing even if it might seem to be horn-tooting. Best Wishes.”

“Great magazine – especially for those that are no longer near the U of S.”



President's Message

There are two schools of thought about planning at universities. One states that universities are places where unpredictable, creative things happen, and they must have the flexibility for ideas and innovation to flourish. Strategic plans only suffocate the seeds of creativity and innovation.

The second school of thought, one obviously adopted by the University of Saskatchewan as we prepare to implement our Third Integrated Plan, is that strategic planning allows a large and complex organization to align hopes and dreams with priorities and resources. It charts a course for the future and lets us measure progress over time. As a public institution we are accountable to many stakeholders—governments, taxpayers, students, faculty, staff, alumni, friends and supporters—who expect a degree of accountability that only strategic planning can provide.

The late Bart Giamatti, former president of Yale University and commissioner of Major League Baseball, stated, “The task of leadership is to make vision practical and compelling.” Our plan—not my plan or your plan, our plan—must articulate a vision that is not only compelling and inspiring, but one that is also practical and attainable. Both are fundamental to success.

Integrated plans and strategic directions at the U of S have done just that. We have set the compelling and inspiring goal of becoming a first-rate, top-tier medical-doctoral university, and we set practical and attainable goals to achieve success. I believe we have made significant progress in the last 10 years. To name just a few areas, we have doubled graduate student enrolment as a per cent of total enrolment, we have

the highest proportion of self-declared Aboriginal students of any medical-doctoral institution in Canada, and we receive three to four times the annual research funding we received little more than a decade ago.

Foresight through planning, along with the continued support from all levels of government—provincial, federal and municipal—has allowed the university to build capacity and position ourselves to meet challenges and take advantage of opportunities that lie ahead. We know there is room for improvement in our tri-council funding for research. We know Aboriginal education is of great social importance to our province and our country, and we play a significant role. We know that, according to an OECD report, Canada is below the international average for graduate students. And we know we have charted a course to address these and other challenges and opportunities.

Our seeds of innovation and creativity are not stifled; rather, they are fed and nurtured as they continue to grow to maturity and we do indeed become a top-tier medical-doctoral university.



Peter MacKinnon,
President, University of Saskatchewan



LIAM RICHARDS

Premier Brad Wall (BA'87) pledged more than \$300 million on behalf of the Government of Saskatchewan at the unveiling of a plaque in the D-wing entranceway to mark progress in the Health Sciences project."

Health Sciences project reaches milestone

Bringing education, practice and research across the health sciences at the U of S—which includes the Colleges of Dentistry, Kinesiology, Medicine (together with the School of Physical Therapy), Nursing, Pharmacy and Nutrition, and Veterinary Medicine as well as the School of Public Health—under one roof came one very large step closer to reality Sept. 2, when officials from the Government of Saskatchewan made the largest capital commitment in U of S history to the Health Sciences project.

The project changes the way health education and research will be conducted at the U of S. Students, faculty, researchers and staff across health disciplines will teach, learn and conduct research together in an integrated setting. Together, they will examine health issues from every angle to best meet the needs of people in Saskatchewan and beyond.

"Our government recognizes the value of investing in Saskatchewan's post secondary education to support Saskatchewan's strong and steady economy," Premier Brad Wall said. "The Health Sciences project will help to attract the most talented medical personnel, educators and researchers, which will provide better training for health professionals and increase the quality of care so people across our province can experience the Saskatchewan Advantage first-hand."

"The pursuit of this project would not have been possible without the outstanding investment and continued support of the province," said U of S President Peter MacKinnon. "This initiative will put us at the forefront among post-secondary institutions in terms of taking a truly collaborative or team approach to how we train health-care professionals."

Search for new president continues

A search committee comprised of members of the board, senate, deans, faculty and students has been established by Board Chair Nancy Hopkins (BComm'77, LLB'78), and an external search arm has been contracted as important steps in the search for the University of Saskatchewan's next president.

This past spring, President Peter MacKinnon announced he will step down from his current role on June 30, 2012.

Public input and transparency are among the 12 guiding principles of the recruitment process. Town hall sessions were held in Saskatoon and Regina in June, and a website (usask.ca/presidentialsearch) has been established to provide ongoing updates and gather input.

The final decision rests with the Board of Governors, and their goal is to have a president in place for July 1, 2012.



LIAM RICHARDS

Governor General visits campus

Canada's 28th Governor General, David Johnston, delivered a speech entitled *Becoming a Smart and Caring Nation*—in which he focused on the importance of education and innovation in improving life—to a crowd of about 200 students, faculty and staff at Convocation Hall on Sept. 13.

STUDENT SPOTLIGHT

Rita Orji

BY DERRICK KUNZ

Technology does not have the best reputation when it comes to healthy lifestyle choices and obesity. We tend to think of a sedentary lifestyle that involves sitting in front of some sort of screen for hours on end—something that can lead to obesity and health issues.

Rita Orji, a U of S computer science PhD candidate and Vanier Scholarship recipient, is determined to change that by using persuasive technologies to increase lifestyle awareness and combat the obesity epidemic.

Orji comes to the U of S from Nigeria, where she earned her bachelor degree from Nnamdi Azikwe University as one of the top students with first class honours. The same high level of scholarship led her to Middle East Technical University in Turkey, where she obtained her master's degree.

“I want to use computer science to impact lives with technology,” says Orji. “Obesity affects so many people in Canada and around the world; it requires immediate attention. So many factors contribute to obesity, but up to 50 per cent of those factors can be solved by lifestyle changes”

We are bombarded with information about weight and exercise, but Orji's research takes a different approach. “If we look at individual lifestyles and micro-behaviours, and inform people about the consequences of choosing to eat fast food or taking the elevator, we can affect change. We can use technology to show people the difference choosing healthier food or taking the stairs would make and drive change.”

Using cross-platform computer applications (commonly called apps), Orji intends to teach people successful lifestyle behaviours.



SCOTT BELL FOR THE U OF S

The Vanier Scholarship helps Canada develop, attract and retain some of the world's best doctoral candidates. Worth \$150,000 over three years, this prestigious scholarship is available to both Canadian and international PhD students studying at Canadian universities. There were 167 recipients in 2011.

“My approach is different because it puts the person first. My design will be based on the psychology of how people work, not how technology works. We need to understand behavior if we want to change behaviour. The technology needs to be flexible so people can use it from their desktop, their smartphone, their tablet, or whatever they are comfortable with.”

While still in the design and development phase of the three-year project, Orji realizes she needs to collaborate with others on

campus, such as colleagues in the Colleges of Kinesiology and Pharmacy and Nutrition. She is quick to recognize the help her co-supervisors will continue to be. “One of the reasons I chose the U of S was because of the support I knew I would get here. My co-supervisors, Dr. Julita Vassileva and Dr. Regan Mandryk, are great mentors. They have such confidence in my ability and that is great motivation to succeed.” ■

InterVac opens

Prime Minister Stephen Harper was part of the official opening of the International Vaccine Centre (InterVac)—the largest North American facility of its kind—on Sept. 16. The \$140 million, 145,000 sq. ft. facility is designed to safely study and handle Containment Level 3 infectious pathogens and agents affecting humans and animals. It will operate as part of the U of S's Vaccine and Infectious Disease Organization (VIDO) and is expected to be operational in 2012.



DAVID STOBBE

New dean of law; library and kinesiology deans reappointed



Sanjeev Anand

Sanjeev Anand started his appointment as dean of the College of Law on July 1. Anand was an assistant professor at the college from 1999-2001, and returns to the U of S after teaching at the University of Alberta.

Anand says curriculum reform is at the top of his priority list. Suggestions by the Federation of Law Societies of Canada indicate law schools are not adequately preparing students for the practice of law. He says students traditionally look at what went right and wrong when reviewing appellate court cases, but “you go through three years of this without ever seeing a client.” Anand compares this model to medical school training where practical training accompanies classroom learning.

Expanding the college's graduate program to include a PhD program in law is also a top priority for Anand.

The Board of Governors has approved the reappointment of Vicki Williamson as dean, University Library and Carol Rodgers, dean of the College of Kinesiology, who returns to her post after a one-year administrative leave.

Place Riel re-opens

The newly expanded and renovated Pace Riel Student Centre was officially re-opened Aug. 18. Highlights include a wide variety of food outlets and expanded seating in Lower Place Riel; the Alumni Wall of Honour (see page 18 for details), USSU reception, an information kiosk, a travel agency and a pharmacy on the main floor; space for USSU executive and staff and other campus clubs on the second floor; and Student Counselling and Student Health Centre—paid for by the U of S and a donation from Apotex—on the third and fourth floors.



DAVID STOBBE

Not your typical cafeteria

This fall marks the completion of a two-phase, \$6.8 million renovation to Marquis Hall. Buffet-style service is now complemented by eight serving stations where food will be prepared fresh for customers—right in front of them—when it is ordered.

The redesign increases serving capacity for a growing campus community and is more sustainable and energy efficient. According to Lynn Guina, director of Hospitality Services, new refrigerators and freezers are expected to save over 6 million gallons of water per year.

Herzberg display unveiled



A permanent display honouring the life of former U of S professor and Nobel laureate Gerhard Herzberg (LLD (honorary)'53) opened in the Physics Building in May.

Herzberg and his wife, Luise, who was Jewish, fled Germany in 1933 and arrived at the U of S in 1935, where he conducted his spectroscopy research for 10 years.

Spectroscopy is the foundation for understanding the mass, temperature and composition of the earth and the surrounding universe and also the basis of the technology used in most beamlines at the Canadian Light Source.

The display features various items from his life, including the spectrograph equipment he used in his early research here and the honorary degrees and accompanying academic attire—including gown, hood and mortarboard—he received from universities around the world, which were donated by his daughter Agnes (MA'63, PhD'66).

Flash mob

Some 40 student volunteers danced for the crowd at Orientation. Watch the video at usask.ca/annualfund.

Nuclear centre update

Following the provincial funding announcement in March, work to establish a centre for nuclear innovation at the U of S is underway, beginning with the recent appointment of John Root, who is on secondment from his role as director of the National Research Council's Canadian Neutron Beam Centre at Chalk River, Ont., as interim director.

Root is now consulting with faculty and leaders from the broader community to define more clearly how this centre could contribute to research, development and training in the nuclear domain. A detailed business plan is currently under development and will be presented to University Council and the Board of Governors this fall.

"There are three key activities that the centre will support: programs, projects and facilities," Root explained. The centre will help to establish academic programs

in nuclear science, technology and policy; stimulate research and development projects that engage partners; and assume responsibility for management of selected facilities.

"We are neither pro- nor anti-nuclear, but we do want to focus on the nuclear domain because it is an area where the U of S and the province have strengths that can deliver positive impacts in the province, Canada and the world."

ocn On Campus News

Unless otherwise noted, news items are drawn from *On Campus News*, the official newspaper of the University of Saskatchewan. Visit news.usask.ca for up-to-date U of S news and photo galleries.

Remember when...

BY TIM HUTCHINSON,
UNIVERSITY ARCHIVES

The first student residence, Saskatchewan Hall, was completed in 1912. The university had decided to have a residence rather than fraternity system, believing residences were more democratic. Until the 1970s the residences were segregated, with strict curfews in place. This photograph (ca. 1950), while no doubt staged, reflects the experience of a number of former residents. Edith Fowke (BA'33, MA'37) recalled in *Inside a Gilded Greystone Wall*, "It used to be quite a game to get back in. I think we had some way of climbing in a window somewhere. ... But it was fairly tame on the whole, compared to some accounts you hear."

Below: University Archives, photograph A-6249. Visit <http://www.usask.ca/archives/history> for more information about U of S history.

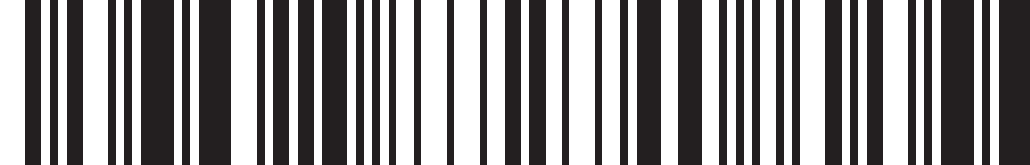


Putting a trace on Food Fraud

Extra virgin olive oil, wild salmon, honey, maple syrup, vanilla—consumers pay a premium to enjoy the rich flavours and superior health and culinary benefits of these natural foods. Perhaps this premium also explains why these products routinely top the list of common food frauds.



Low (centre) with master's student Allison Ozog, BSc'08 (left) and Hongyan Zheng, PhD'10.



Food fraud is big business. According to a recent study by the Grocery Manufacturers Association (GMA), economic adulteration and counterfeiting of food and consumer products costs the industry between \$10 and \$15 billion per year.

Economic adulteration includes diluting a product with a lesser-value ingredient (such as adding beet sugar to honey), substituting a lesser-value ingredient (using tonka bean to make vanilla extract) and mislabeling (selling farmed Atlantic salmon as wild Atlantic salmon).

“Food fraud is nothing new. In the 1800s, they used to soak used tea leaves in a solution of black lead and then resell it as fresh tea. As far back as biblical times, there are accounts of diluting wine with water,” says Nicholas Low, professor of food and bioproduct sciences at the University of

“I see a real benefit for regions like Saskatchewan that have a reputation for safe, ethical food production.”

Saskatchewan. He is also the lead researcher in a commercially viable tracing system that could, one day, put an end to food fraud.

As a rule, food fraud does not pose a major threat to public health. There are exceptions, however; in 2008, for example, the illicit addition of melamine to milk products in China led to the death of six infants, over 50,000 hospitalizations and close to 300,000 illnesses worldwide. There is also concern about the potential impact of food fraud on people with severe allergies.

But is food fraud on the rise? “Between five to ten per cent of the foods we buy aren’t all they claim to be,” Low says. “I think that level has been pretty consistent, so I don’t know if the incidence of food fraud is necessarily increasing. What we are seeing is much more awareness of the relationship between what we eat and our health. I see it in my students too; they are much more interested in food authenticity and food security.”

Low has spent a good part of his 25-year career devising ways and means of detecting food fraud. His chemical methods of verifying food authenticity are currently used by Agriculture and Agri-Food Canada and the U.S. Food and Drug Administration, as well as by regulatory agencies in the European Union (EU) and leading food manufacturers like

Nestlé and Tropicana. Now, he and his team at the U of S are collaborating on an exciting new project—molecular tags that can be used as internal markers for food traceability and security.

“For 25 years, I’ve been chasing down the bad guys, trying to find out ‘who dunnit’. It’s entirely reactive—we respond to suspicions of food fraud and then try to identify what has been done. But by the time you do that, the bad guys have come up with something else. Our idea of adding molecular or chemical tags to food lets us move to a more proactive system.”

Low has developed a carbohydrate-based tag for food products. The tag can be added during manufacturing or processing, remains in the food and can be safely consumed. He is working with Robert Hanner at the University of Guelph on a

system for tracing the tag. The ability to add a tag that could potentially be tracked from the farm gate to the fork is generating considerable interest among major food companies.

“It is not just companies that could use the tags; I see a real benefit for regions like Saskatchewan that have a reputation for safe, ethical food production. Saskatchewan-grown products have a certain brand; but what happens if someone dilutes a high quality Saskatchewan product with lower quality product, then sells it as the higher quality Saskatchewan brand?”

Low’s system would allow producers to trace their product as it moves into the marketplace. Spot checks could reveal whether a product has been diluted or altered, based on whether the original tag is absent or diluted.

“We’re still in the early stages, but we currently have two tags that can be mixed and matched. Ultimately, I envision a series of tags, zero through nine, that could be used in multiple combinations, so producers could create their own confidential identification systems. It adds to the security of the system and allows food producers to stay a step ahead of the adulterators, which would be a good change.” ■

too good to be true?

Short of lab testing everything you eat, there is no sure-fire way of protecting yourself from food fraud. But there are common sense guidelines. The first, and most tempting to ignore, is the “too good to be true” rule. Premium products command a premium price. If the price looks too good to be true, there is a good chance you are getting an adulterated product.

• **Wild salmon:** The vast majority of salmon on the market today is farmed. Due to overfishing and depleted stocks, wild salmon (especially Atlantic) makes up a small percentage of the market and prices reflect this exclusivity. Also keep in mind that wild salmon is only in season at specific times of the year.

• **Extra virgin olive oil:** Because it is time-consuming and expensive to make, extra virgin olive oil is more expensive than any other oil on the shelf. The lucrative market has attracted a lot of adulterators, so read product labels carefully. A good assurance of quality is an EU designation of origin seal or California Olive Oil Council seal.

• **Honey and maple syrup:** Canada is a big producer of quality honey and maple syrup. Look for grade (such as Canada No. 1) and origin (product of Canada) on packaging; both are good indications of product authenticity.

• **Vanilla extract:** Mexico makes some of the finest vanilla extract on the market, but the discount product you see in many tourist centres is rarely the good stuff. In fact, it is bad stuff: not vanilla at all but a taste-alike called coumarin, a toxic substance banned in U.S. foods since 1954. Coumarin is often listed in ingredients as ‘tonka bean’.

We all love a bargain, but quality takes time and money to produce. Be prepared to spend more. And a little internet homework on designation of origin labels and certifications will help ensure you get what you pay for.

Summer time and the living is easy. So the song goes. But when Curtis Pozniak (BSA'99, PhD'03) kicked back for a five-day break at the lake this summer, he also had work on his mind.

Rooted

in Wheat Science

BY BOB FLORENCE PHOTOS BY DAVID STOBBE

“It’s 5 a.m. and I’m on the beach at Good Spirit Lake, having a conference call,” he said, talking about a research project he has started with a group of colleagues around the world.

Pozniak and Pierre Hucl (PhD’86), who are both with the Crop Development Centre at the University of Saskatchewan, are part of an international team that is rethinking wheat. How can we make crops better and get higher yields, they wonder. If we study wheat like it has never been studied before, what happens then?

They are about to find out.

The Canadian Triticum Advancement Through Genomics project is part science, part business and total adventure. For the next three years, and with \$8.5 million in support from groups including Genome Canada and the Saskatchewan Ministry of Agriculture, Pozniak, Hucl and the team are getting the inside story on wheat. Gene sequencing, they call it.

“This is about identifying all of the genes in wheat, how they work, how they interact with the rest of the chromosomes,” said Pozniak. “The goal is to complete a high quality reference sequence for the complete wheat genome.”

We know what wheat looks like at harvest. But how does it get there? Just like a person can have blue eyes or brown, the reason for wheat’s height and colour and sway—even for the taste of the bread it makes—are found inside, in its cell DNA.

For Pozniak, Hucl and crew, wheat genes are the focus of this project.

As an associate professor of wheat breeding and genetics at the U of S, Pozniak can talk the lab talk. But he speaks in a language we prairie folk understand.

Photos opposite page:

(top) Pozniak reviews test results with Megan Torrico, lab technician

(bottom) Corey Howard, lab technician, analyzes samples

"I come from a family of farmers and a family of musicians," he said. "My dad, myself and my brother played in a band at dances in the area." He still plays in a four-man band, and on a recent weekend, he and the group performed at a rural wedding past midnight.

"He is a dedicated rock 'n' roller," said Hucl.

His family still farms near Rama, SK, not far from Good Spirit Lake. Pozniak recalls, "I was around grain, cows, chickens and pigs. I love the smell of harvest ... driving a combine late at night ... the grain dust ... being with family ... seeing a small elevator in the distance. This is me. This is my home."

Pozniak thought he would return to farming when he was done university. Instead, he has dug into agriculture in another way, as a teacher and researcher.

"Pierre was my PhD supervisor," Pozniak said of Hucl. "He continues to mentor me. You need that push, someone who realizes you have the curiosity, the interest."

"What I see in Curtis is his curiosity," states Hucl, who earned his Bachelor of Science and Masters of Science degrees from the University of Guelph before adding a PhD from the U of S in 1986.

By watching and working with Hucl, Pozniak is learning what it takes to be a wheat breeder. Developing a new strain of wheat—starting with an idea and following it through until certified seeds are growing in the ground—is a 12-year challenge, with weather being the wild-card. Good breeders, Pozniak said, deal with it. They have a bushel of patience.

"Call it experience," said Hucl, who has been doing this for almost 30 years. "With experience you can see there is opportunity in adversity."

Hucl said this the day after Saskatoon was hit by hail. Troubled by a storm the previous night, he slept for no more than two hours, then drove to check out one of his fields. It was fine. He rolled on.

Hucl and Pozniak have both developed wheat varieties grown by farmers. When not in the classroom or the lab, you will find them in test fields, sometimes making their rounds as late as the summer sunset.

Together, Hucl and Pozniak now zero in on the wheat genome, specifically the 6D chromosome.

"We know it's complex," Pozniak said. "We know it's huge. And only

20 per cent of the DNA in the chromosome contain genes that may be important to disease resistance, to bread making quality. Eighty per cent of the DNA is referred to as "junk DNA", and we're not sure what it does. At the end of the day, you've answered one question and asked another 10."

Hucl adds, "The question we have now is can we use some information we find for more effective breeding."

For the farmer, maybe it results in a variety of new and improved wheat.

For consumers, it means more bread, not just here in Canada, but wherever wheat is grown.

For Pozniak, the combination of education and business at the Crop Development Centre is a good mix. His feet are in the city, and his heart is in the land.

"You know Charles Saunders?" Pozniak asked.

Saunders was a big player in this field a hundred years ago. Raised in London, ON, Saunders went into wheat breeding at the encouragement of his father. Although he did not have a lab or a mill, Saunders would test wheat by chewing on a few kernels. Starting in 1904, he developed a variety at an experimental station in Indian Head, SK. The wheat, called Marquis, won \$1,000 in a contest run by the CPR and went on to become the hottest crop on the prairies.

"Charles didn't have computers and sequencing," Pozniak said. "These tools have allowed us to tackle some complex issues in a reasonable cost and time. But the questions he asked haven't changed. 'What do farmers need? Who are they selling the wheat to? What are they using it for?'"

"I would take him out in the field, go with him to the 30,000 (experimental) plots we grow. 'What do you think about where we are now?' I'd ask him."

And bring on the harvest. ■





This page and right:
Blaine Favel, a founding director of One Earth Farms and a former First Nations chief, at a speech to One Earth Farms staff on the company's origin and development.

Opposite (far right):
School outreach programs allow One Earth Farms to teach about sustainable land development within a wider context of community development, land stewardship and world hunger, as well as talk about farming as a viable and meaningful career option.

FEEDING PEOPLE Fairly

BY DEE HOBSBAWN-SMITH

A prairie First Nations grandmother who was renting out her land to a farmer at roughly 20 per cent of fair market value is now earning a decent rental income thanks to the efforts of a company designed to bring fairness to Aboriginal agriculture. She is one of many who have benefited from the efforts of One Earth Farms, not a charity or an NGO, but a company that applies economies of scale and brings a corporate approach to agriculture in the Aboriginal world of farming.

“A rising tide lifts all ships,” remarks Blaine Favel (BEd’87), director of One Earth Resources Corp., an offshoot of Sprott Resource Corp., a Toronto-based oil and gas company. “You know that economics phrase? It means when we started paying fair market value for farmland we rented on reserves, all other renters had to start paying fair market value, what they should be paying.”

Favel, born and raised on a family farm on the Cree Nation Poundmaker reserve west of North Battleford, is ideally suited to his role in ensuring the financial sustainability of First Nations farmers across the prairies. After obtaining his Bachelor of Education at the U of S, he earned a law degree from Queen’s University and subsequently became the first Canadian First Nations person to achieve an MBA at Harvard Business School. A former Grand Chief of the Federation of Saskatchewan Indian Nations, he pioneered two national firsts—the establishment of the First Nations Bank of Canada and the Saskatchewan Indian Gaming Authority. “You could call me the grandfather of Indian gaming,” he jokes by phone from Calgary. But bringing employment to urban residents through casinos was not to be Favel’s only contribution.



MICHAEL PIERLOT PHOTOGRAPHY



COURTESY OF ONE EARTH FARMS

The formation of One Earth Farms began when interest in resource-based investment opportunities in the Canadian Aboriginal community led Sprott Resource Corp. CEO Kevin Bambrough to Phil Fontaine, former Grand Chief of Manitoba and former National Chief of the Assembly of First Nations. Fontaine called his old friend Favel and introduced him to Bambrough. In 2008 Favel became president and CEO of One Earth Resources Corp., which gave birth to One Earth Farms a year later.

By any standard, One Earth has been a success. From 13,000 acres on three participating reserves in 2009, with a skeleton staff of four, the company now controls what it claims to be Canada’s “largest farm”, albeit spread out over a dozen reserves across the prairies, with more than 100 full-time and seasonal employees. “In total, about 120,000 cultivated acres and 100,000 acres of pasture land for the cattle,” Favel recounts.

“Generally speaking, native farms were being farmed harder than neighbouring non-Indian land. We offered to take care of the land and bring up the land’s organic content. We developed training and hired native people, and we have the federal government, as well as two provincial governments, invested in training.” He is referring to Inroads to Agriculture Institute (IAI), a \$5 million partnership, which includes the U of S, that provides First Nations and Métis trainees with vital training, certification and job placement support to advance in the agriculture and agri-services sectors. IAI has 80 people in training, 16 of whom work for One Earth Farms on seven reserves in Alberta and Saskatchewan.

Another key educational component comes from the parent company’s founder, Eric Sprott. The Sprott Foundation, a charitable trust and philanthropic foundation, was formed by Sprott and his family in 1988 to address urgent human need, hunger and homelessness. The Sprott Foundation offers recipients the useful equivalent of a fishing pole instead of fish, providing the means to become self-sufficient. Its donation of \$1 million in January 2011 to the University of Saskatchewan created the Post-Graduate Diploma in Aboriginal Agriculture and Land Management. This diploma allows Aboriginal students who have graduated with a bachelor’s degree in a non-agricultural discipline to venture into the farming sector, providing practical training in agribusiness and land management, agricultural sector and indigenous knowledge, and indigenous economic development. A hands-on practicum within a community-based project allows the students to practise what they learn.

Community has played a dominant role in Favel’s life. His father, Henry Favel, was chief of the Poundmaker reserve; an agriculture scholarship was named for him.

“Dad chaired and founded the Saskatchewan Indian Agriculture Program, with close ties to the U of S, with a mandate to get First Nations people farming their own land. Thirty years later I go to Harvard and do the same thing with my MBA.”

Favel says that his father had strong feelings about the implementation of welfare to natives when it was introduced in 1970 on reserves. “Poison, he called it. He thought people should work and that agriculture was an important part of survival. Farms were, at the time, very common on reserves, but when the farm economy went south in the 1980s, a lot of Indian farms disappeared.”

The difference we have made at One Earth is how First Nations people can see themselves. They are involved from headquarters to field staff.

The results of Favel’s efforts can be traced within One Earth Farms’ participating communities. For example, the Blood tribe of southern Alberta transferred a teepee to One Earth in 2010. This is the highest honour that a non-Blood entity can receive and is emblematic of the high regard the Blood Nation has for its increased hope of economic growth due to the agricultural practises fostered by One Earth. “Improvement in how the land is farmed,” Favel says, “and the elevated interest in agriculture generally among First Nations, the difference we have made at One Earth is in how First Nations people can see themselves—literally, they are involved at One Earth from [headquarters] to field staff.”

Fontaine sits on the One Earth Board of Directors with Favel, and the two remain close friends. Favel says of their relationship, “We offer each other mutual support.” As a board member, Favel keeps an eye on corporate governance. The business employs trained agrologists to advise farm production crews. “We recruited a top-tier management team, I don’t second-guess them. I do sit on the audit committee and the First Nations partnership committee to ensure all the undertakings we make are honoured—employment, training, equity. Those who rent land to us are granted equity in their farm plus their rental income. We wanted them to be owners of One Earth Farms, over and above what we do for rent. The best benefit is indirect but hugely beneficial.” ■

Breeding a
**BETTER
BEER**

BY CRAIG SILLIPHANT PHOTOS BY DAVID STOBBE



A glistening trail of condensation rolls down the side of a frosty glass; a mug filled with amber waves of grain and topped with a regal and frothy crown at its head. "Beer is proof that God loves us and wants us to be happy," Benjamin Franklin famously said. Franklin had it right; there isn't much in this world that can be more satisfying than a cold beer, something most university students, past and present, can identify with.

However, in a sad twist of the cosmos, with everything being finite, beer can spoil through the process of chemical oxidization. It can also be more difficult to produce with certain barleys. It is not something your average beer drinker thinks too much about, but thankfully, a skilled team at the University of Saskatchewan is building a better beer by engineering superior barley.

Though he is quick to stress the collaborative nature of his work, semi-retired Professor Emeritus Bryan Harvey (BSA'60, MSA'61) is still quite active with the Department of Plant Sciences, where he was an early pioneer in the area of barley breeding. As a graduate student, Harvey helped to develop important techniques for rapeseed and contributed to the development of canola.

He officially began his career at the University of Guelph, but returned to the U of S in 1966, where he began the maverick task of breeding two-row malting barley in a six-row barley world. Harvey and his research partner, Brian Rosnagel (U of S Crop Development Centre), created more than 50 types of barley, including the well known Harrington, which has been a dominant variety in Canada for over 20 years. With a higher yield, stronger straw, and early maturity, Harrington can be malted directly from the combine, which reduces its dormancy and the chance of spoiling. Its high enzyme level allows brewers to reduce their costs while still producing a delicious, quality beer.

Harvey took into account the harsh climate and short growing season of Western Canada and resolved to create a superior product that could compete on the world market.

"Just going for high yield isn't going to get you anywhere," Harvey explains. "You have to have a quality product that you can deliver when in competition with others. When I was offered the job of barley breeder here, that's the approach I took. I brought that experience from canola to barley, and now the quality in malting barley is considerably more complex than oil quality in canola."

Working with Rosnagel, a team of specialists and companies like the Japanese beer giant Sapporo, Harvey also has to maintain a relationship with the multi-faceted beer industry, from the malters and brewers to the agricultural producers themselves, who often have different perspectives on their respective requirements.

"That's absolutely vital," says Harvey. "I'm talking about quality; but if I don't know what quality means to the end user, I can have all the preconceived ideas that I want. They won't go anywhere. So I had to talk to farmers to know what they thought was right or wrong about our varieties growing in the field. Then I talk to the maltsters and brewers about what they want in an ideal variety."

It is easy to form the mental image of a scientist in a lab wearing a white coat surrounded by test tubes, but for Harvey, the real lab is out in the field itself, in the open air, where inspiration can take many forms. Harvey's work can be sterile and mathematic, but conversely, can also bear a high degree of creativity.



"Any good breeder has an element of both," he says. "You have to understand the science to it, but there's an art to it as well. I can't draw worth a damn, but I think I have an eye for what makes a good looking barley plant in the field. And there's nothing prettier to me than a nice field of barley, standing there, doing well."

Though most university students would argue that making better barley for beer makes Harvey akin to a superhero, he also uses his powers for the good of humanity. He is the chairman of the board of the International Institute of Tropical Agriculture, an organization that utilizes agricultural research to better the lives of poverty stricken people around the world, primarily in Africa.

"We can increase the economic health and welfare of these people by giving them better access to food," says Harvey of his altruistic passion. "They can move from a diet that is basically a survival diet, to [eating] more exotic things. They begin to have a better way of life, and they'd have enough production left over to make a little bit of money."

As one might expect, Harvey's varied career has brought him success and accolades from around the globe. He is a member of the Saskatchewan Agriculture Hall of Fame, received the Saskatchewan Order of Merit and has been recognized by the Canadian Seed Trade Association and the Master Brewer's Association. In 2005, Harvey was also honoured in Japan at a conference highlighting his work, after the Asahi Brewing Company used the famed Harrington barley to impress beer drinkers so much that the brand moved from third place to first place on the Japanese market.

At the end of a long day of saving the world and being one of the wizards behind our favourite barley drink, Harvey can sit down for a beer and literally enjoy the fruits of his labour.

"Most people don't think of beer as a sophisticated drink, but it's far more complex than wine and has a broader range of flavours," he says. "I manage to have one or two [beer] a day. On a cool evening, I like a dark ale, and to go with dessert, a porter or stout is great. For all around enjoyment, I enjoy a pilsner-type beer with a fairly high bittering level. It comes with getting old and having your taste buds deteriorating. After a hot day in the field, an ice cold beer does the trick." ■



Alumni Association President's Message

The new Board of Directors and executive were announced at the Annual General Meeting in June, and we are working on

rolling our various committees and advisory panels—which are excellent volunteer opportunities by the way.

Work on the association's governance review continues. We are evaluating our options and anticipate making decisions this fiscal year. I assure you, no matter what model of governance is chosen, the U of S Alumni Association will continue to be your link to the U of S after graduation and celebrate the wonderful things our alumni do and accomplish.

Our annual alumni awards has changed formats for this year. Changes better reflect the broad range of achievements of our alumni throughout the world and the impact we have on the communities in which we live. Congratulations to all our award recipients.

A new interactive electronic display was unveiled this summer in the newly renovated Place Riel Student Centre. Students, staff and visitors will be able to learn more about the Alumni Association, some of our distinguished alumni, and some of the donors that continue to make significant contributions to our university. Be sure to check it out next time you are on campus.

Alumni Association scholarships for students are made possible through the generosity of individuals just like you. That is why the U of S Alumni Association is endorsing this year's Annual Fund Campaign for Students. Information on how the annual fund helps students and how to give can be found in the Marketplace section of this issue.

Best wishes,

Jason Aebig, BA'99



Achievement Awards

FALL 2011

The Alumni Achievement Awards recognize graduates of the University of Saskatchewan for excellence, leadership, and innovation in their achievements and contributions to the social, cultural, and economic well-being of society, which positively reflect on the University of Saskatchewan and the Alumni Association.

Congratulations to this year's award recipients. Awards will be presented at a reception October 28 in Saskatoon.



B. E. (Bev) Allen, BSP'73

With a distinguished 38-year career, Bev has been involved in almost every aspect of pharmacy. He owned and operated a community practice in Saskatoon for the first 19 years of his career. In 1992, he became an assistant professor at the U of S and was later the coordinator of the Structured Practice Experiences Program, where he helped hundreds of students experience 'real world' learning. He has volunteered with many service and professional organizations and has received numerous awards, including the Canadian Foundation for Pharmacy Pillar Award and an Honorary Life Membership with the Saskatchewan College of Pharmacists.



Tony Dagnone, BComm'65

Tony has more than 38 years of experience in health care, serving as CEO of academic hospitals and being involved in the visioning, planning, and redevelopment of over \$500 million of new healthcare facilities. After two decades at Royal University Hospital in Saskatoon, he became president and CEO of the London Health Sciences Centre, Toronto. In 2009, he was appointed independent commissioner of the Patient First Review in Saskatchewan. Tony has held leadership and board positions for professional and community organizations including the Ontario Hospital Association, the Change Foundation, the United Way, the Canada Games held in Saskatoon, and was a founding board member of the Canadian Medical Hall of Fame.



L. David Dubé, BA'84

A five-year alumnus of Huskie football, David passionately supports U of S athletics. He created the Huskie Athletics logo—used on clothing and a variety of merchandise—as a student, and in 2006, he established the Huskie Football Scholarship Foundation, which has built a \$1.4

million endowment. He has made major contributions to improve Griffiths Stadium, including portions of the new clubhouse expansion, and to enhance the game day experience for players and fans. David is majority owner, president, and CEO of Concorde Group Corp., a diversified Saskatoon-based company. With his wife, Heather Ryan, he actively supports The Nature Conservancy of Canada, Western College of Veterinary Medicine, and Junior Achievement, among others.



Rui Feng, PhD'92

Rui has worked as a geologist and an executive in the mineral resource industry for over 17 years. He is an entrepreneur with an extensive track record in successfully acquiring and exploring mineral properties and turning them into profitable mining operations. Rui was the founder

of several successful publicly listed companies in Canada, which have made significant mineral discoveries in China. In Canada, he has held positions at the National Engineering and Science Council, and the Institute of Sedimentary and Petroleum Geology of the Geological Survey. He is currently a board director of the Canada China Business Council – BC Chapter.



Edward Hudek, BSA'40

With research, experience, and ingenuity, Edward expanded the practice of agriculture in the Canadian prairies and delivered public policy solutions to improve the lives and viability of farmers. He farmed in Hafford, SK, until 1945, when he began teaching

agricultural engineering at the U of S. In 1956, he began a 25-year career at the Manitoba Department of Agriculture, becoming Deputy

Minister in 1977. After retiring in 1981, Ed and his wife, Christine, managed a 10,000-acre Canadian International Development Agency (CIDA) research and development project in Sudan. Ed has passionately served his faith, and was honoured with the *Pro Ecclesia et Pontifice* Papal Medal.



Ken Linnen, BE'72

Ken is known in the engineering and planning fields for his character, leadership, mentorship, intelligence, professionalism, and practicality. In his 39-year career, Ken has held positions at the Saskatchewan Ministry of Highways, the City of Regina, Saskatchewan Housing Corporation, and as a consultant at

Stantec. He has been the consulting team leader for numerous Regina subdivisions such as Harbour Landing, Wascana View, Windsor Park, and Wood Meadows, among many others. Ken supports his community by volunteering in numerous sports, cultural, and professional organizations such as coaching youth curling, the Regina Symphony Orchestra, Toastmasters International, and Engineers Canada.



Terrence Veeman, BSA'62

Terry has enjoyed a lengthy and productive career at the University of Alberta, where he, along with his wife, Michele, has been a faculty member since 1970. He was a Rhodes Scholar at Oxford University and completed doctoral studies at the University of California, Berkeley. For Terry, teaching and

mentoring graduate students is a high calling. His teaching areas are development and resource/environmental economics, while his research contributions focus on agricultural and forest productivity, sustainable development, and renewable resource policy. Terry was president, and later elected fellow, of the Canadian Agricultural Economics Society. He maintains a life-long interest in world food issues. ■



DAVID STOBBE

Alumni Association President Jason Aebig (left), Vice-President, University Advancement, Heather Magotiaux and USSU President Scott Hitchings (BA'11) unveil an interactive display featuring distinguished U of S alumni, a brief history of the Alumni Association and information on donors who continue to generously support the U of S at the Place Riel Student Centre re-opening August 18. Select content from the display can be viewed online at <http://www.uofsalumni.ca/index.cfm>.

New websites

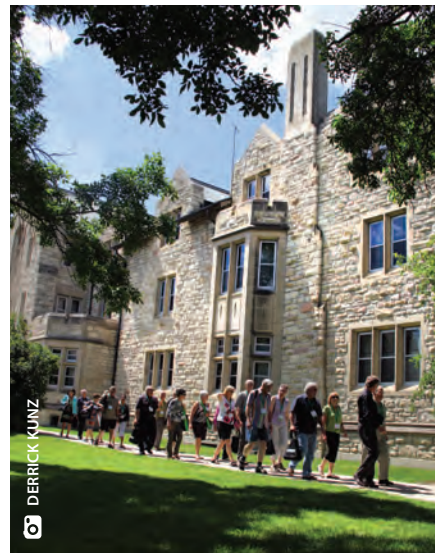
Website reform continues at the U of S with new sites for the *Green & White* and the Alumni Relations office. Features for both included a new look and simplified navigation to make it easier to complete the task that brought you to the site. Visit usask.ca/greenandwhite and alumni.usask.ca respectively, and let us know how you think we can do better through the feedback button in the bottom right.

A new Facebook page and a LinkedIn group give you more ways to get information and stay in touch with your fellow alumni. Both can be accessed through the website.

Welcome back!

More than 100 alumni from the classes of 1971, 1966, 1961, 1956, and 1951 and earlier returned to campus in June for the annual reunion to visit and reminisce about their days at the U of S. Alumni had fun catching up with each other as they toured the campus, visited their colleges and attended the President's Luncheon.

The 2012 Honoured Years Reunion will be held June 21-23 for the classes of 1972, 1962, and 1952 and earlier. Any class is welcome to organize their campus reunion at this time. Stay informed with the latest plans by visiting alumni.usask.ca/events. Registration brochures will be mailed to honoured years alumni in January 2012.



DERRICK KUNZ



It's a tradition

As can be expected, many traditions have emerged, changed and even disappeared throughout the history of the U of S. You may fondly remember things like Frosh Week, the Snake Dance, the Coronation Ball, Winter Carnival, Senior Stick and Senior Pin ceremonies and other college-based events and initiatives.

The U of S Alumni Association has developed a project to investigate historical and current traditions, symbols and ceremonies involving U of S students.

Submit your university-, college- or club-based stories and photographs, and new ideas, to uofs_traditions@usask.ca. Please keep submission under 500 words. Questions? Email us or call 1-800-699-1907.

New Alumni Association Board



DAVID STOBBE

Members of the U of S Alumni Association 2011-12 Board of Directors: (l-r) Jonathan Moore-Wright, Lenora Bells, Brea Lowenberger, Bryan Harvey, Peter Stroh, Delva Rebin, Jan Williams Russel, Melana Soroka, Judy MacMillan, Maria Lynn Freeland, Jason Aebig.

Visit alumni.usask.ca for a complete list of board members and more information on the Alumni Association.

Travel

Chancellor Vera Pezer (BA'62, MA'64, PhD'77) and U of S History Professor Bill Waiser (MA'76, PhD'83, DLet'10) were joined by 27 U of S alumni and friends on the Chancellor's Great War Memorial Tour in the spring, visiting historic war sites in Belgium and France.



Alumni and friends aboard the M.S. Le Boréal on a tour of Iceland – Land of Fire and Ice

Visit alumni.usask.ca/travel for information on more alumni travel opportunities.

Volunteer with alumni branch, chapter or club

With over 135,000 U of S alumni located in 117 countries, you never have to miss the U of S and your fellow alumni. To make our network work, we need enthusiastic alumni, retired faculty and staff, and friends of the U of S to initiate and promote events and connections that provide meaningful experiences in support of your university.

There are opportunities to lead a group or be a point of contact for the university in your geographic location; boost student, faculty, and staff recruitment efforts; foster relationships with students and recent graduates by mentoring and providing internship opportunities.

Volunteers are rewarded with:

- meaningful connections with fellow alumni and your alma mater,
- social and professional networking opportunities,
- enriching experiences,
- building leadership skills,
- giving back to current students and the U of S community, and
- increasing the reputation of the U of S.

To express your interest and learn about the volunteer opportunities, visit alumni.usask.ca/volunteer, or phone 966-5186 / 1-800-699-1907.

At the branches

Ottawa and area alumni were invited to this year's Prairie Scene April 26 - May 8. Over 500 Saskatchewan and Manitoba artists, including Colin James, Brent Butt, Buffy Sainte-Marie and Bachman & Turner, entertained crowds at over 80 events during the course of 13 day festival. A Prairie Social and touch football game on Parliament Hill were also among the featured events.

A group of 100 alumni and friends in Vancouver and Fraser Valley area attended the Saskatchewan Roughriders game when they took on the BC Lions

at Empire Field on August 5. The Toronto branch also held their annual Saskatchewan Roughriders vs. Toronto Argonauts event on August 18. Alumni and their guests enjoyed dinner at the Patio in Rogers Centre before joining thousands of Rider fans in the stands.

Several All Canadian events were held for Canadian expatriates in the USA and UK in the spring and summer. Events were held in Washington, DC, Boston, MA, Chicago, IL, Bloomington MN, Seattle, WA and London, UK.

Upcoming events

Pre sident 's t our Al umni event s

- October 18, 2011, La Ronge, SK
- November 22, 2011, Moose Jaw, SK
- January 25, 2012, Ottawa, ON
- January 31, 2012, Calgary, AB
- February 7, 2012, Prince Albert, SK
- April 4, 2012, Vancouver, BC
- April 10, 2012, Toronto, ON
- April 17, 2012, Swift Current, SK

CENTENNIAL CELEBRATIONS

- Check local listings for details on the following centennial celebrations in 2012
- College of Agriculture, events in January, June, and September
 - College of Engineering, September 20-23
 - College of Law, gala event October 6
 - Huskie Athletics, alumni reunion March 30 & 31
 - St. Andrew's College, July 6-8
 - The Sheaf, November 2 & 3

For more information on these and other alumni events, visit alumni.usask.ca/events

Get your alumni card to take advantage of many benefits and services. alumni.usask.ca

CORRECTIONS

The following are corrected entries from the spring issue:

Mr. Shay Code, BComm'90 of Saskatoon, SK, was appointed vice-president and general manager, Western Market Centre of Xerox Canada.

Ms. Marion Mutala, BEd'79, PGD'94, MEd'95, of Saskatoon, SK, received the Anna Pidruchney Award for New Writers for her book *Baba's Babushka: A Magical Ukrainian Christmas*.

Ms. Margaret Symon-Lungal, BSHEC'76, BEd'78, BA'87, MEd'10, of Saskatoon, SK, completed her Master's of Education in October, 2010, and is working with elementary students at two east-side schools as an itinerant specialist, English as an additional language teacher.

1940s

The Hon. Edward Hughes, BA'48, LLB'50, LLD'11, of Victoria, BC, received an Honorary Doctor of Laws from the University of Saskatchewan.

1950s

Ms. Mercedes Montgomery, BSN'53, of Saskatoon, SK, has been appointed volunteer board chair of the St. Paul's Hospital Foundation.

Dr. Helen Hughes, BSHEC'54, LLD'11, of Victoria, BC, received an Honorary Doctor of Laws from the University of Saskatchewan.

Mr. Joseph J. Dierker, BA'57, LLB'60, of Saskatoon, SK, received the Law Society of Saskatchewan's Senior Lifetime Membership.

Prof. Emeritus David A. Christensen, BSA'58, has been named a Distinguished Chair at the University of Saskatchewan.

1960s

Dr. Philip H. Gordon, MD'66, of Hampstead, QC, received the Masters in Colorectal Surgery Award from the American Society of Colon and Rectal Surgeons.

Mrs. Valerie-Jean Hume, BA'66, of Palm Springs, CA, USA, was honoured by the National League of American Pen Women, Palm Springs Branch, as a Woman of Distinction in the Arts for 2011, recognizing her contributions and creativity in the fields of music, performance art, radio broadcasting and playwriting.

Ms. Sheila Carey (nee Keay), BA'67, of Kelowna BC, retired April 1 after 19 years as the lab coordinator for the City of Kelowna Wastewater Treatment Facility. Retirement plans include travel with her husband, Allan, and more time for her hobbies of hand weaving and gardening.

Mr. Gerald M. Luciuk, BSA'67, PGD'71, MSc'73, of Regina, SK, received the 2010 Ukrainian Canadian Congress Saskatchewan Provincial (UCCSP) award in recognition of his contributions to the community-at-large.

Dr. David H. McNeil, BA'68, Sc'70, PhD'77, of Calgary, AB, has retired after 33 years as a research scientist with Geological Survey of Canada; he continues as an emeritus scientist specializing in the micropaleontology of Arctic and Western Canada.

Ms. Lorna J. Crozier, BA'69, Educ'70, DLet (honorary)'07, of Victoria, BC, was appointed an Officer of the Order of Canada for her poetry and her mentorship of the next generation of Canadian poets.

1970s

Dr. Barry R. Blakley, BSc'70, Sc'71, DVM'75, MSc'77, of Saskatoon, SK, received the USSU Experience in Excellence Award.

Mr. Albert Frederick Chambers, BA'71, of Ottawa, ON, has been appointed to a three-year term as the chair of the Canadian Advisory Committee to ISO Technical Committee 34 (Food Products). He is also chair of the CAC/ISO TC34 Subcommittee 17 (Food Safety Management Systems) and a member of Health Canada's Food Expert Advisory Committee.

Mrs. Laura Lacoursiere, BComm'71, of Saskatoon, SK, received the Canadian Management Accountants' Saskatchewan Member Recognition Award.

Mr. Theodore John Nieman, BA'71, LLB'73, of Saskatoon, SK, was appointed chair of the Board of Directors with Claude Resources Inc.

Ms. Yvonne Schmitz, BA'71, of Calgary, AB, was given the City of Calgary Award for Community Advocacy on June 15 for her significant volunteer contribution to the community.

Mr. Brian Johns, BSc'72, Sc'73, of Saskatoon, SK, recently retired after 36 years with the Canadian Wildlife Service. He has since received Nature Saskatchewan's Conservation Award, the Whooping Crane Conservation Association's J.J. Pratt Whooping Crane Award and the North American Crane Working Group's L.H. Walkinshaw Crane Conservation Award for his years of work with the endangered species.

Mr. Justice Brian J. Scherman, BA'72, LLB'72, of Saskatoon, SK, has been appointed judge of the Court of Queen's Bench of Saskatchewan.

Mr. Beverly (Bev) E. Allen, BSP'73, of Saskatoon, SK, was the recipient of the 2010 Pillar of Pharmacy, awarded by the Canadian Foundation for Pharmacy for his life-long commitment and contribution to the profession of pharmacy in Canada. He was also recognized by the Saskatchewan College of Pharmacists with an honorary life membership at their 100th anniversary. Bev recently retired from his position as assistant professor of pharmacy and coordinator of the Structured Practice Experiences Program at the College of Pharmacy and Nutrition, University of Saskatchewan, where he has been employed since 1992.

Mr. Edward A. Komarnicki, LLB'73, of Estevan, SK, has been re-elected as a Member of Parliament.

Mr. Wayne E. Gauthier, BEd'74, BA'76, of Red Deer, AB, is currently teaching at the Ponoka Comprehensive High School in Ponoka, AB. He has been with the Wolf Creek School Division since 2007, after 27 years in the Greater Saskatoon Catholic School District and a one-year sabbatical with the Cowichan Valley School District.

Dr. David Chalack, DVM'75, of Calgary, AB, has been inducted into the Canadian Agricultural Hall of Fame in 2011 for his outstanding contribution to the agriculture and food industry. The formal induction ceremony will take place at the Canadian Agricultural Hall of Fame awards banquet on November 6 in Toronto, ON.

Dr. Marlene Smađu, BSN'75, of Regina, SK, associate dean, College of Nursing Southern Saskatchewan Campus (Regina) has been appointed co-chair to a National Expert Commission on health system improvement.

Mr. Mark Wartman, BA'75, of Saskatoon, SK, was appointed chair of the Governance and Nomination Committee and a member of the Board of Directors for the United Church of Canada Foundation.

Ms. Audrey P. Gauthier, BSN'77, BA'79, HosAdm'82, Arts'96, of Red Deer, AB, has been employed by Alberta Health Services since 2007, where she is currently an area manager with Public Health. She has previously held several positions with Health Canada, working 27 years with the Saskatoon Health Region and a one-year sabbatical working with the Vancouver Island Health Authority and the Nanaimo Tillicum Lelum Health Centre.

Mr. Melvin A. Gerspacher, BComm'77, LLB'78, of Saskatoon, SK, received the Saskatchewan Branch of the Canadian Bar Association's Community Service Award.

Dr. John R. Gordon, BSc'77, PhD'84, of Saskatoon, SK, received the University of Saskatchewan Distinguished Researcher Award.

Mr. Louis Tapper, BEd'77, BComm'82, of Saskatoon, SK, received the Institute of Chartered Accountants of Saskatchewan Distinguished Community Service Award.

Mr. Marco (Mark) Fracchia, BE'78, of Saskatoon, SK, has been appointed vice-president, Safety, Health and Environment at PotashCorp.

Ms. Monica Kreuger, BA'78, MBA'94, of Saskatoon, SK, was appointment president of the Greater Saskatoon Chamber of Commerce.

Dr. Karen Shaw, BSc'78, MD'83, of Saskatoon, SK, was appointed registrar and CEO for the Saskatchewan College of Physicians and Surgeons.

Dr. Graydon S. Meneilly, MD'78, of Vancouver, BC, was named governor of the British Columbia Chapter of the American College of Physicians.

Mr. W. Brett Wilson, BE'79, of Calgary, AB, was appointed a Member of the Order of Canada for his contributions as an entrepreneur, community leader and philanthropist.

1980s

The Hon. Mdm. Just. Lian Margaret Schwann, LLB'80, of Regina, SK, was appointed judge of the Court of Queen's Bench of Saskatchewan.

The Hon. Darrell T. Pasloski, BSP'82, was elected premier of the Yukon Territory.

Mr. James B. Miley, BA'82, of Saskatoon, SK, graduated from Norwich University (Vermont) with an MA (Diplomacy) in June, focusing on international commerce.

Ms. Maria Lynn Freeland, BA'83, LLB'86, of Prince Albert, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Mr. Alvin R. Bodnarchuk, BSPE'84, BEd'85, of Saskatoon, SK, was inducted to the U of S Huskie Athletic Wall of Fame in September.

Dr. Randall Friesen, MD'84, of Prince Albert, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Dr. Cindy Shmon, DVM'84, of Saskatoon, SK, received the USSU Experience in Excellence Award.

The Hon. Judge Karl P. Bazin, BA'85, LLB'85, of Swift Current, SK, was appointed Provincial Court Judge by the Government of Saskatchewan.

Mr. Timothy (Tim) S. Gitzel, BA'86, LLB'90, of Saskatoon, SK, has been appointed CEO of Cameco Corporation effective July 1.

The Hon. Mr. Just. Maurice J. Herauf, LLB'86, of Moose Jaw, SK, was appointed judge of the Court of Appeal of Saskatchewan.

Mr. Mark R. Regier, BComm'86, of Saskatoon, SK, received the Certified Management Accountants' Saskatchewan Member Recognition Award.

His Worship Terence Lake, DVM'86, of Kamloops, BC, became BC Minister of the Environment in March.

Dr. Digvir S. Jayas, PhD'87, of Winnipeg, MB, a researcher, distinguished professor and vice-president of research at the University of Manitoba, is now a member of the "300 club" with his 300th peer-reviewed article approved for publication.

Dr. Jane Simington, BSN'87, MN'90, of Edmonton, AB, received the 2011 YWCA Women of Distinction Award in Health Care. She also has been selected as the "Nurse to Know" for the June, 2011 issue of *Canadian Nurse*.

Mr. Dean Newton, BSPE'88, BEd'90, MEd'01, of Saskatoon, SK, was chosen as one of Canada's Outstanding Principals for 2011.

Ms. Cheryl Senecal, BA'88, MCTgEd'96, of Regina, SK, was appointed as Acting Minister of Education for the Government of Saskatchewan.

Ms. Alison Pickrell, BA'89, Arts'98, of Saskatoon, SK, was appointed director of enrolment at Student and Enrolment Services Division at the University of Saskatchewan.

Mr. Barry Remai, BComm'89, of Saskatoon, SK, has been appointed president and chair for the Institute of Chartered Accountants of Saskatchewan.

Mr. Darryl Stann, BComm'89, of Saskatoon, SK, has been appointed vice-president, Procurement at PotashCorp.

■ 1990s

Mr. Timothy Gabruch, BA'90, BComm'94, Arts'94, MBA'03, of Saskatoon, SK, was appointment vice-president of Marketing Strategy and Administration at Cameco Corporation.

Ms. Denita Stann, BComm'90, of Saskatoon, SK, has been appointed vice-president, Investor and Public Relations at PotashCorp.

Mr. Lee M. Knafelc, BEd'91, of Saskatoon, SK, has been appointed vice-president, Human Resources and Administration at PotashCorp.

Mr. Peter Beatty, BA'92, of Orleans, ON, received his MA in Organizational/Social Psychology from Carleton University.

Ms. Edmee Korsberg, HeCAAdm'92, 93 and 94, of Lanigan, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Dr. Kent Kowalski, BA'93, MSc'95, PhD'00, BFA'07, was inducted to the U of S Huskie Athletic Wall of Fame in September.

Ms. Rachelle Brockman, BComm'94, MBA'00, of Saskatoon, SK, received the USSU Experience in Excellence Award.

Mr. David Flett, LLB'94, BAdmin'94, of Regina, SK, recently joined the Regina office of the Saskatchewan Ministry of Justice as a crown prosecutor.

Mr. Leighton Ginther, BA'94, of Calgary, AB, was part of a team of architects and engineers from across North America who volunteered their time with Engineering Ministries International Canada.



COVER IMAGE COURTESY OF ROLLING STONE ISSUE DATED AUGUST 18, 2011 © ROLLING STONE LLC 2011. ALL RIGHTS RESERVED. REPRINTED BY PERMISSION.

Ewan Currie (BA'11)

of Saskatoon, SK, appeared on the cover of the *Rolling Stone* magazine August 18 with his band The Sheepdogs. Currie, along with band mates Leot Hanson, Ryan Gullen and Sam Corbett, became the first unsigned band to appear on the cover of the *Rolling Stone* after winning the magazine's Choose the Cover contest. The only Canadian band to be a part of the contest beat out 15 other bands for the grand prize, which also includes a recording contract with Atlantic Records.

The team spent a week in Niger preparing the design for the expansion of Sahel Academy, a school for children of international families serving in Niger.

Dr. Monique Dubé, MSc'95, of Calgary, AB, received the 2011 YWCA Saskatoon Women of Distinction Award in the science, technology and research category and the *Canadian Geographic's* 2011 Environmental Scientist of the Year Award for her contributions to aquatic ecosystem research.

Ms. Kylie Head, BA'95, LLB'98, of Regina, SK, employed at the Saskatchewan Ministry of Justice, Civil Law Division, was elected treasurer of the Canadian Bar Association Saskatchewan in June. She is scheduled to progress to the branch presidency in 2013.

Gene Makowsky, BEd'97, of Regina, SK, broke the record for games played by a Saskatchewan Roughrider. He played his 272nd CFL game August 5, surpassing Hall of Famer Roger Aldag's record.

Prof. Emeritus Madan M. Gupta, DSc'98, of Saskatoon, SK, has been named a Distinguished Chair for the University of Saskatchewan.

Ms. Nicole Sawchuk, BA'98, LLB'01, of Prince Albert, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Mr. Troy D. Davies, HosAdm'99, of Saskatoon, SK, has been appointed second vice-president for the Greater Saskatoon Chamber of Commerce.

Ms. Nadya Foty, BA'99, of Saskatoon, SK, received the USSU Experience in Excellence Award.

■ 2000s

Dr. Paul Anthony Dutchak, BSc'01, MSc'05, of Dallas, TX, USA, completed his PhD at the University of Texas Southwestern Medical Center in Dallas.

Ms. Jacqueline Lavalley, BSKin'02, BEd'02, of Saskatoon, SK, was inducted into the U of S Huskie Athletic Wall of Fame in September.

Ms. Jamie Epp, BSKin'03, of Clavet, SK, was inducted to the U of S Huskie Athletic Wall of Fame in September.

Mr. Michael Jutras, BSKin'03, BEd'04, MEd'09, of Saskatoon, SK, has been inducted to the U of S Huskie Athletic Wall of Fame in September.

Dr. Angela Poole, MD'03, of Regina, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Ms. Kelsie L. Hendry, BA'04, BEd'09, of Saskatoon, SK, was inducted into the U of S Huskie Athletic Wall of Fame in September.

Ms. Colleen Toye, BSN'04, of North Battleford, SK, has been appointed a member of the Health Services Review Committee by the Government of Saskatchewan.

Mr. Nathan Wiebe, BE'04, BSc'04, of Saskatoon, SK, was part of a team of architects and engineers from across North America who volunteered their time with Engineering Ministries International Canada. The team spent a week in Niger preparing the design for the expansion of Sahel Academy, a school for children of international families serving in Niger.

Ms. Andrea Eccleston, BSc'05, of Saskatoon, SK, was awarded the Canadian Council for the Advancement in Education Rising Star Award.

Ms. Meghan Gervais, BSc'06, BE'06, MBA'10, of Saskatoon, SK, was appointed manager of Business Development for POS Bio-Sciences.

Ms. Cindy Nylund, BSN'06, of Saskatoon, SK, received the USSU Experience in Excellence Award.

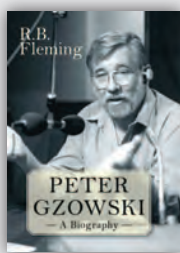
Dr. Valerie Wong, MVSc'07, of Guelph, ON, is currently pursuing her PhD in the Department of Pathobiology at the Ontario Veterinary College, University of Guelph and is also a recipient of numerous awards, including the Ontario Veterinary College Fellowship, Pathobiology Scholarship for Graduate Student Excellence, and the Soren Rosendal Memorial Research Prize. She also plays in a chamber string orchestra at the University of Guelph.

Ms. Jodi Holzman, BSA'08, of Saskatoon, SK, has begun a three-year assignment with Mennonite Central Committee in Dodoma, Tanzania, as a community agronomist.


Ms. Ainsley Robertson, BComm'09, of Saskatoon, SK, received the Athena Young Professional Leadership Award.

■ 2010s

Dr. Maria Soledade Pedras, DSc'11, of Saskatoon, SK, received an Earned Doctor of Science from the University of Saskatchewan.



Peter Gzowski, A Biography


(Dundurn Press, 2010) by R.B. Fleming (MA'82, PhD'88) 

This comprehensive biography paints a portrait of

Canada by exploring the journalist and interviewer who covered most of the last half of the twentieth century.





Stories From the Road: Memories of Home Economics Extension at the University of Saskatchewan 1913-1980

(Gwenna Moss, 2010) edited by Gwenna Moss (BSHEc'59) 

The personal stories and memories of 25 former extension home economists, prodes of former staff and the history of the U of S extensions division are compiled to tell of an important part of U of S history.



Quiver


(Harper Collins Publishing Ltd., 2011) by Holly Luhnig (PhD'08)  

Danica, a young forensic psychologist, suspects one of her

patients may have been the head of a gothic cabal re-enacting the murders of the Blood Countess, a real-life sixteenth-century Hungarian countess.



The dust of just beginning



(AU Press, 2010) by Don Kerr (BA'57) 

Kerr's latest collection of poetry illustrates his unique prairie voice—minimalist,

self-effacing, direct yet subtle and nuanced.




Left Out: Saskatchewan's NDP & the Relentless Pursuit of Mediocrity

(indie ink Publishing, 2010) by John Gormley (LLB'92)  


Part political history, part radio personality rant, *Left Out* is sure to keep people talking about partisan politics in Saskatchewan, no matter what your political stripes are.





The Sky Full of Dreams: Memories of Earlier Days on the Farm

(Kingsley Publishing, 2010) by Victor Carl Friesen (BEd'61, BA'61, MA'65) 

A work that is both literature and social history reveals Friesen's passion for and understanding of a place he considers "forever home."

 AVAILABLE IN PRINT

 AVAILABLE IN E-BOOK

 For a more comprehensive list of recently published books written by U of S alumni, or to submit your recently published book, visit usask.ca/greenandwhite/inprint.

The Alumni Association has noted, with sorrow, the passing of the following faculty and friends:

BELL, Carol June, of Rosetown, SK, d. Sept. 4, 2011.

MILLS, Prof. Emeritus James Herbert, of Fergus, ON, d. May 8, 2011.

TATE, Prof. Emeritus Eugene Donald, of Saskatoon, SK, d. July 25, 2011.

WASYLYNIUK, Walter, of Saskatoon, SK, d. May 9, 2011.

The Alumni Association has noted, with sorrow, the passing of the following graduates:

(1939) SOARE, Jack Littleton, BE'39, of Kelowna, BC, d. March 23, 2011.

(1947) STARK, Robert Gordon, BA'47, of Downsview, ON, d. April 22, 2011.

(1948) BOUGHTON, John Cullis Colonel, BE'48, of Kanata, ON, d. April 3, 2011.

(1949) BATER, Dr. Basil Robert, BA'49, of Kingston, ON, d. June 22, 2011.

(1949) SMITH, Dr. Lyman Abbott, BE'49, MSc'51, of Kingston, ON, d. May 1, 2011.

(1949) WARTMAN, Rev. Gordon Bruce, BA'49, BD (St. Andrews), of Saskatoon, SK, d. April 25, 2011.

(1950) CAMMAERT, John Emile, Dip/Ag'50, of Rockyford, AB, d. June 17, 2010.

(1951) BRAIDEK, John George (Jack), BSA'51, Admin'70 (Regina Campus), of Saskatoon, SK, d. Aug. 19, 2011.

(1952) BROOKS, Harold Melvin, BSP'52, BA'44, of Canmore, AB, d. July 20, 2011.

(1952) MACLEOD, The Hon. Justice Kenneth Roy, BA'52, LLB'54, of Regina, SK, d. March 30, 2011.

(1957) MAZURKIE, Dr. Stanley Joseph, MD'57, of Easton, MA, USA, d. July 18, 2011.

(1961) OWEN, Dr. Bruce Douglas, PhD'61, of Tsawwassen, BC, d. May 2, 2011.

(1966) SHARMAN, Donald, BA'66, Dip/Ed'70, BEd'70, of Edmonton, AB, d. Dec. 27, 2009.

(1969) BULLEE, William Adrian, BE'69, of Saskatoon, SK, d. May 1, 2011.

(1977) GUZAK, Peter, HosAdm'77, of Saskatoon, SK, d. April 5, 2011.

(1982) LEE, Brendan Kam-Yiu, BE'82, of Kowloon, Hong Kong, d. April 5, 2011.

(1984) VAN DEVEIRE, Dr. Peter Joseph, DVM'84, of Brandon, MB, d. Sept. 3, 2011.

(1988) HADER, Mary Barbara, BSN'88, of Saskatoon, SK, d. May 23, 2011.

For a complete listing of In Memoriam, please visit usask.ca/greenandwhite

The Sheaf

Vol. I.

November, 1912

No. 1

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Brad started his career in the heart of Canada's Parliament and now works for the **Associate Vice-President, Information and Communications Technology**. In his spare time, you'll find him waxing show cars. He recently took our **Business Writing and Grammar Workout** to help polish his skills outside the garage.

Brad Flavell
2007: BA History & Philosophy (U of S)
2006-07: VP Academic (USSU)
2004-06: Member of Student Council (Arts & Science Students' Union)

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– Drew Gillespie, College of Law

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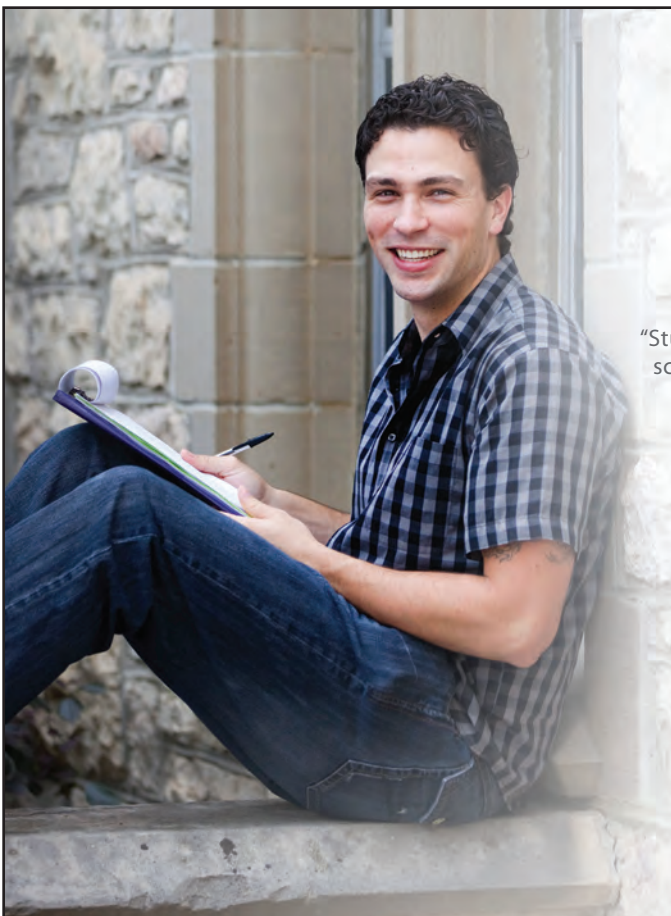


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Since 2007 it has been the university’s policy that all U of S theses be submitted in digital format.

The library believes that society as a whole benefits from the free exchange of ideas, and that open access to scholarly communication accelerates the creation of new knowledge. In keeping with this philosophy, and in order to enhance the visibility of U of S graduate scholarship, the library has embarked on a project to digitize and add to the ETD repository as many as possible of the theses produced prior to 2007.

If your thesis is not currently in the repository, and if you would like to see it available on the web ASAP, please email the Electronic Thesis Project at ETDproject@library.usask.ca and we will put a priority on its digitization. Likewise, please contact the Project Office if you do **NOT** wish to have your thesis in the repository, and we will ensure that your wishes are respected.

Electronic Thesis Project
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University of Saskatchewan
3 Campus Drive
Saskatoon, SK S7N 5A4
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– Chantel Krakowetz, College of Graduate Studies and Research

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Nominations open for University Senate members

An election will be held in the spring of 2012 for seven (7) Senate districts and five (5) member at large positions that expire on June 30, 2012. Elected Senators serve three-year terms beginning July 1 and are eligible for re-election to a second consecutive term.

As a Senator, you are part of the university's tri-cameral governance structure (Board of Governors, Council and Senate), and are responsible for some critical areas of operations, including: Non-academic student discipline; granting honorary degrees; establishment or disestablishment of colleges, schools and departments; examinations for professional societies; and promoting the interests at the U of S.

Members at Large

There are currently five member at large positions expiring on June 30, 2012. All current Senators are eligible for re-election. They are Kurt Breker, Judy Buzowetsky, Stefania Fortugno, Bill Johnson, and Amelia Lowe-Muller.

These positions are nominated and elected by all members of Convocation. There are no restrictions as to where these Senators reside.

Saskatchewan District Senators

The seven districts in Saskatchewan that are open for nominations are:

District 1	Weyburn – Estevan – Carlyle (Postal code beginning with SOC, S4H, S4A)
District 5	Kindersley – Delisle – Lucky Lake (Postal code beginning with SOL)
District 6	Wynyard – Esterhazy (Postal codes beginning with SOA and S3N)
District 10	Sandy Bay – Creighton (Postal code beginning with SOP)
District 12	Blaine Lake – Uranium City (Postal code beginning with SOJ and west of meridian 106)
District 13	Saskatoon (Postal codes beginning with S7R, S7P, S7L, S7K, S7S, S7M, S7N, S7H, S7J, S7T, S7V, S7W)
District 14	Regina (Postal codes beginning with S4Y, S4X, S4R, S4T, S4W, S4P, S4S, S4N, S4V, S4Z, S4L)

All of the Senators currently representing these districts are eligible for re-election. They are David Hickie (District 1), Barbara Sanderson (District 5), Sandra Fisher (District 6), Johnny Alphonse Walker (District 10), Harvey Allyn (District 12), Nancy Poon (District 13) and Gordon Blackmore (District 14).

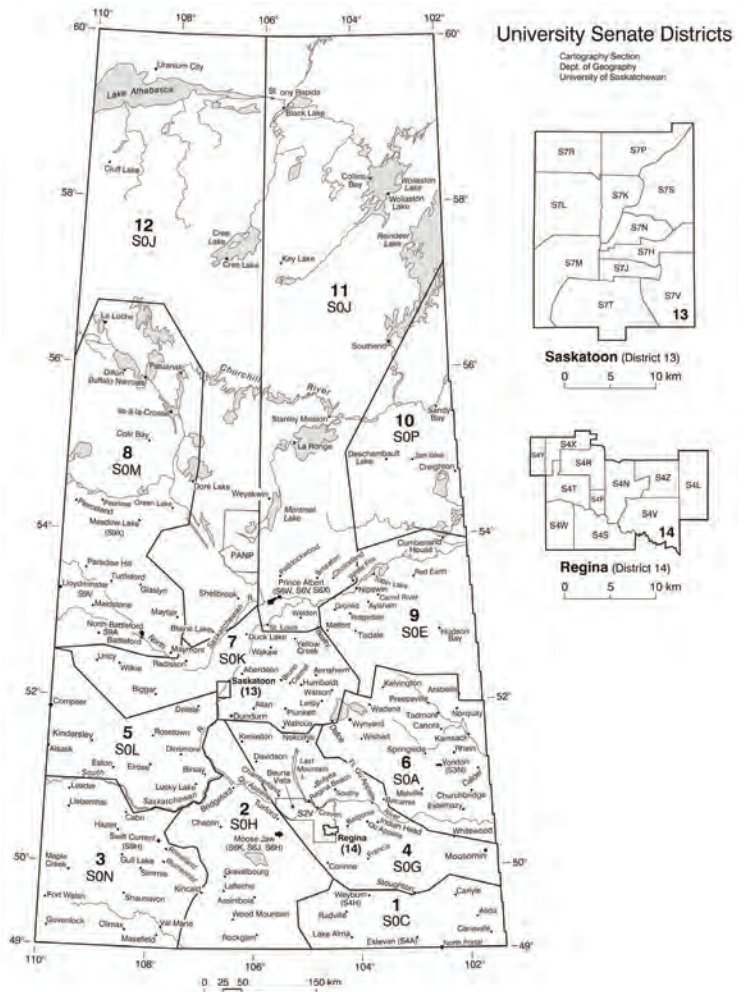
Only members of Convocation residing in the above electoral districts are eligible to nominate and vote for the member of the Senate to represent the above electoral districts.

Election Procedures

Nominations for Senators must be signed by at least three (3) qualified voters and endorsed by the nominee. Nominators should clearly indicate their name and address on the nomination form. Each nomination should be accompanied by a biography of the nominee.

Nomination forms are available from the University Secretary's Office website http://www.usask.ca/university_secretary/senate/senate_elections.php or call (306) 966-4632. You may also draft your own. Please send your nomination by March 1, 2012 to:

Lea Pennock, University Secretary
 Room 212 - 107 Administration Place
 University of Saskatchewan, Saskatoon, SK S7N 5A2
 Phone: (306) 966-4632, Fax: (306) 966-4530



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