HE'LL TKO THE STATUS QUO

Meet Wab Kinew, alumnus, journalist, rapper and student of martial arts who's redefining the relationship between Indigenous and non-Indigenous people in Canada with a one-two punch of eloquence and intelligence

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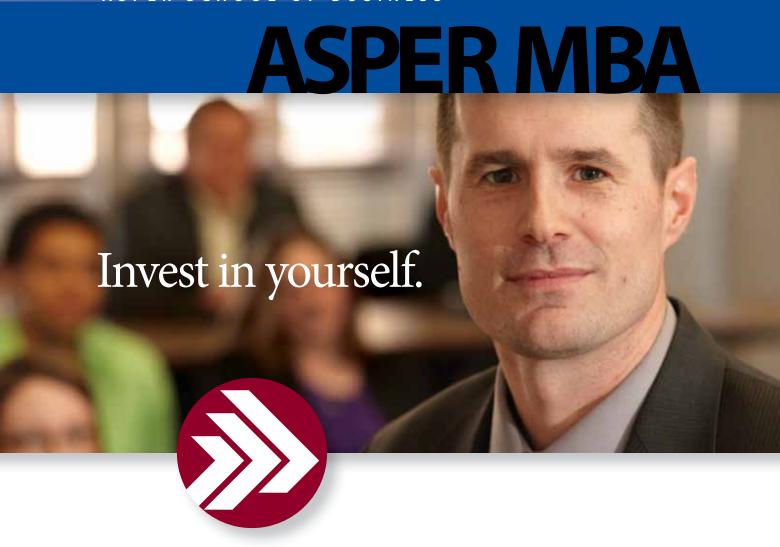
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OnManitoba

VOLUME 72, # **1**

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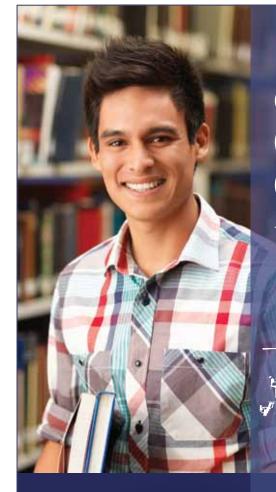
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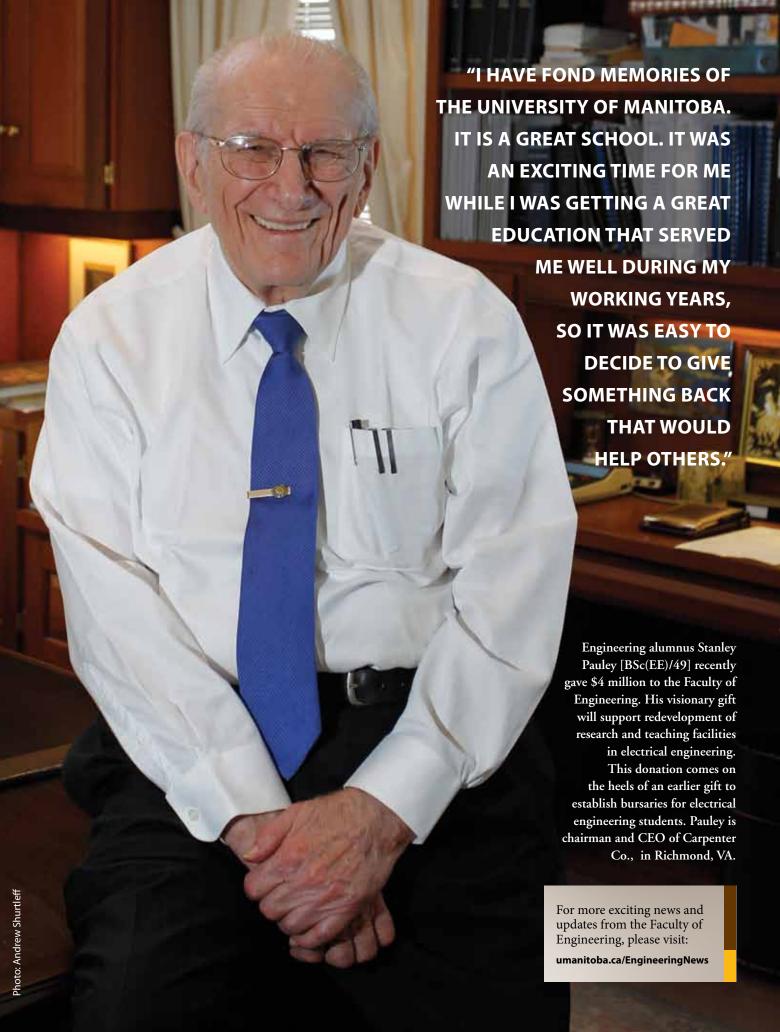
AT THE UNIVERSITY OF MANITOBA, OUR STUDENTS ARE VISIONARIES, TRAILBLAZERS AND PIONEERS.

For over 135 years, our donors have been visionaries, too. Donors like Mary Kathleen Ruane, who set up a gift in her will that has already helped nine nursing students in financial need pursue their studies. She was also one of the first students to enter the School of Nursing administration program at the University of Manitoba. That education was the foundation for her career.

Ruane gave back because she believed in the importance of education. Her generosity will leave a lasting legacy for the next generation of visionaries.

If you would like to leave a lasting legacy for the next generation of visionaries visit: umanitoba.ca/giving/plan_a_gift or call 204-474-6246 or toll-free at 1-800-330-8066.







U of M Alumnus grateful for UNIVERSITY'S RESIDENTIAL SCHOOL APOLOGY

On October 27, 2011, the President of the University of Manitoba made an emotional apology on behalf of the University of Manitoba for what it did and did not do with respect to residential schools. There has been public discussion and debate about the value of such an apology, and what if anything the university had to apologize for. These debates are healthy.

One measure of the value of an apology is whether the recipients feel it was appropriate and feel the apology was appropriate and justified. By that measure, the apology had important value. Phil Fontaine, former National Chief of the Assembly of First Nations (AFN) and a U of M alumnus, witnessed the apology and said: "What we have witnessed here in Halifax today is the first time an institute of learning has publicly recognized its role in the Indian residential school system, and how much they deeply regret their role. However, the University of Manitoba is becoming a leader in Aboriginal education and has committed to further their efforts in order to ensure the success of Aboriginal graduates. This is great and welcomed news and I am pleased to have been a part of it." Manitoba Deputy Premier and Aboriginal and Northern Affairs Minister Eric Robinson said: "As a residential school survivor and a minister, I am inspired by the leadership taken by the University of Manitoba." AFN National Chief Shawn A-in-chut Atleo said: "I commend the University of Manitoba for its participation in the Truth and Reconciliation Commission. Steps like this can help advance mutual respect and understanding between First Nations and other Canadians and generate the action needed to create lasting change." Justice Murray Sinclair, the Chair of the Truth and Reconciliation Commission said: "A gesture from an institution such as the University of Manitoba cannot be understated. It is probably one of the more important gestures that we have received as a Commission."

But, some may ask, no matter how recipients of an apology feel about the apology, if you have nothing to apologize for, what is the point?

The President of the U of M stated in the apology: "Our institution failed to recognize or challenge the forced assimilation of Aboriginal peoples and the subsequent loss of their language, culture and traditions. This was a grave mistake. It is our responsibility. We are sorry. The University of Manitoba has a responsibility to acknowledge the harm inflicted on First Nations, Métis and Inuit survivors, their families and their communities. ... The University of Manitoba educated and mentored individuals who became clergy, teachers, social workers, civil servants and politicians." The President might have added lawyers, judges, anthropologists, linguists and even architects and engineers who worked on the schools. The President might have added that the University has not, for most of its history, offered a welcome to Aboriginal students or taught courses that included Aboriginal history, politics, economics, rights, law, business development or culture.

The point is not that the U of M is somehow responsible for the actions of its graduates in later life. The point is, as the apology says, that the U of M failed to challenge the forced assimilation.

One of the teachings I think about from time to time is this one, attributed to Pastor Martin Neimoller in reference to Hitler and the Holocaust and religious freedom.

First they came for the communists,

and I didn't speak out because I wasn't a communist.

Then they came for the trade unionists,

and I didn't speak out because I wasn't a trade unionist.

Then they came for the Jews,

and I didn't speak out because I wasn't a Jew.

Then they came for me

and there was no one left to speak out for me.

The above quotation says we have a responsibility to speak out in the face of injustice to others.

When the President of the U of M said that the U of M failed to challenge the forced assimilation of Aboriginal peoples, it made me think of Pastor Neimoller's quote.

I congratulate the University of Manitoba for giving this important apology.

Tom McMahon [BA/80, LLB/83]



Recognizing those who came before

The cover story of *On Manitoba*'s December edition caught my interest. I applaud [Katharina] Stieffenhofer's efforts for doing good and necessary work. Let's hope the project she documents gets replicated throughout Manitoba's North.

However, I feel compelled to point out the work of those who went before. To wit, many staff of Health Canada's nursing stations and health centres established and tended gardens as examples to their communities. Sometimes the soil was so poor and rocky, that replacement soil had to be flown in to create a garden.

Other pioneers were the Nutrition Advisors of the Frontier School Division, with resources provided by Manitoba Agriculture. The program known as "Tunnel Gardening" ran for almost 20 years with horticultural support, first from Jim Portree [BSA/70, MSc/74], then Dinah Ceplis [BSA/75, ExtEd/96] and led by Joan Butcher [BHEc(Hon)/69, ExtEd./95]. Community residents were given training and support to promote nutrition education in their schools and communities. They taught classes, established projects, and worked with local groups and health staff.

Remembered too are the achievements of The Bay's Nutrition Program, which reached well into the far North. Here we credit the initiatives of Marjorie Scurman.

So let's not forget the work of earlier "pioneers" upon whose shoulders we now stand.

David Rosner [BSW/74]



Celebrating the gift of stimulating intellect

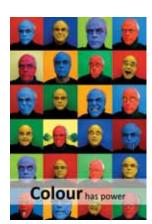
Dear Editor,

Re: 'I thought I would be an architect' Reunion.

Sometimes it appears that much of what architects pass off as innovation is half-a-bubble off plumb. So it was with the 'I thought I would be an architect' Reunion which took place during Homecoming weekend. Contrary to Alumni Association convention, this was the commemoration of an aspiration rather than a degree. Fifty members and friends of the 1965-66 first-year design studio of the last offering of the Bachelor of Architecture professional degree program reconvened in the John A. Russell Building. Perched atop stools ranked alphabetically at drafting tables of their era, these artists, artisans, filmmakers, musicians, writers, lawyers, engineers and graduate architects celebrated a gift of stimulating intellect – Professor John ("Pinky") Graham and his basics of design teaching method. A price of reuniting was the contribution of a 2X3 image to express an assigned design element in a personally meaningful way. "Colour has power" by Vancouver architect Gordon Richards was best-in-the-class. The 36-plate exhibition was published in the Faculty of Architecture journal NETWORK 2011.







Corrections

In our August 2011 issue, a memorial for Reesor Bingeman appeared. Reesor was not an alumnus of the university but his wife, Norma, is and she appeared in our records as Mrs. Reesor Bingeman. A call from a relative of Reesor's, U of M alumnus Dr. Graham Vanderlinden [MD/57], brought this error to our attention and we promptly corrected Norma's information. Our thanks to Dr. Vanderlinden, and our apologies to Norma and her family for this error. In our December magazine, we incorrectly ran the date of birth as the date of graduation along with Donald Isaac Cook's memorial. Mr. Cook graduated in 1952 and was born in 1922. Our sincere apologies.

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hile this past Manitoba winter is likely to be remembered as one of the warmest on record, it brought a chill to many of us who are concerned about the impact of climate change. Quite simply, climate change is a global problem with significant implications for Manitoba. At home, it threatens to alter the habitat of wildlife such as polar bears and caribou, disrupt crop production and food distribution, exacerbate flood and drought cycles and even affect the ability of our children to play hockey on outdoor rinks or ponds.

At the University of Manitoba, climate change and other planetaltering issues are always top of mind among our world-class visionaries and innovators.

David Barber, Canada Research Chair, studies Arctic system science at the University of Manitoba and leads a team of researchers without peer in the world when it comes to studying global warming and its implications.

I had the good fortune recently of participating in an official opening—with our partners in government and in the private sector—of a facility at our Fort Garry campus that produces sea ice on the Prairies under the direction of Feiyue Wang.

Manitoba's new Sea-Ice Environmental Research Facility (SERF) is one-of-a-kind in Canada. The facility allows our scientists to gather data necessary to determine the causes of the polar ice melt that is forever changing Canada's North.

Our climate change team is part of a proud tradition at the University of Manitoba where we embrace the unexpected, defy convention and carve a new path.

Here are only a handful of examples of how the University of Manitoba's community of learning, discovery and outreach has helped and continues to help build a more prosperous, productive, just, culturally vibrant and environmentally sustainable province, country and world:

- Infectious disease research pioneered in Manitoba by Drs. Allan Ronald and Frank Plummer into HIV-AIDS is saving lives in India, Africa and around the world.
- Dr. Bruce Chown's research into the Rh factor and his development of a life-saving vaccine ended the heartbreak of families who had

- previously lost their newborns to Erythroblastosis fetalis.
- The innovative award-winning satellite technology developed by Lotfollah Shafai has helped spark the global cellular telephone revolution.
- During a recent part of her storied career, University of Manitoba alumna and judge Kimberly Prost presided over the court that brought war criminals from the former Yugoslavia to justice.
- Baldur Stefansson's revolutionary development of canola has resulted in a virtual market explosion of nutritious food products that now contribute more than \$14 billion to the Canadian economy.
- University of Manitoba alumnus and retired justice Murray Sinclair is currently heading the Truth and Reconciliation Commission into the impact of the Indian Residential Schools on First Nations, Métis and Inuit peoples, communities and cultures following a distinguished career as a judge.
- CBC reporter and hip-hop star Wab Kinew (who is our April
 cover) hosted 8th Fire, a documentary series that explored the
 past, present and future of Aboriginal people in Canada. Kinew
 is leading efforts to bring the relationship between Canada's
 Indigenous and non-Indigenous people to a new and more
 positive place.
- Jeff Melanson, president of The Banff Centre, former co-CEO of the National Ballet School and one of Canada's Top 40 Under 40 for 2009, is just one of our graduates who is reshaping Canada's arts scene.

It is gratifying to be part of such an impressive community of people who use their education, talent and passion to transform lives. As alumni, you are an important part of that community and we are proud to share in your success and your achievement.

At times it seems our outstanding students, faculty, staff and alumni perform at their best when the stakes for our province, country and planet are their highest.

Our home is Manitoba. Our impact is global.

David Barnard PRESIDENT AND VICE-CHANCELLOR

PREDICTING TOMO ISANYTHING BUT



A Winnipeg winter so ridiculously mild snow is trucked in for the annual Festival du Voyageur ice-sculpting competition. Across the Atlantic in normally temperate Europe, a devastating cold snap that leaves several hundred people dead. An epic spring flood that costs Manitobans \$800 million, inundates homes and kills a man who tries to cross a washed out road.

The dramatic, even bizarre weather haunting many regions of the globe lately has lead to an at-times fevered discussion amongst many of us about global warming and the future of our planet.

If there's one thing that can be said about our changing weather, it's that we all have an opinion on it. That's where the U of M comes in—with a new research facility on sea ice, the first of its kind in Canada—and a team of researchers leading pioneering investigations to help clarify where conjecture ends and true scientific facts begin.

By Sarah Richards

RROWS CLIMATE BLACKAND WHITE



"WE'RE STARTING TO SEE MORE EXTREMES— AND THAT'S NOT JUST HAPPENING HERE, THAT'S GLOBALLY. THAT'S A WAKE-UP CALL."

PROF. JOHN HANESIAK, DEPARTMENT OF ENVIRONMENT AND GEOGRAPHY

ome of the facts may still be fuzzy, but researchers are fairly confident in what the current science is saying. John Hanesiak [PhD/01], a professor in the department of environment and geography, specializes in atmospheric science and extreme weather. He says whenever there's strange weather like this past winter, friends, family and journalists ask him to explain. There's just one problem.

"I don't know if there is a solid answer," says Hanesiak.

Weather is an extremely complex phenomenon. There are countless influencers involved, from La Niña to Arctic oscillation, which concerns changes in atmospheric pressure that in turn affect the weather in the Northern Hemisphere. And those are the simple examples.

"Everything is super-imposed on everything else," says Hanesiak. "The climate system is all connected."

Hanesiak says scientists still aren't sure how much our weather is going to change, but they are fairly convinced more extreme conditions will take place. This past mild winter could be a sign of things to come in Manitoba's future, he says, with wider swings from wet-to-dry and warm-to-cold spells, along with more intense weather systems and precipitation.

"We're starting to see more extremes—and that's not just happening here, that's globally," says Hanesiak. "That's a wake-up call."

On many fronts, and perhaps most importantly on agriculture.

Department of soil science professor Paul Bullock has analyzed research on the effects of climate

change and increases in carbon dioxide (CO₂) on crop production. He says it's difficult to know whether the benefits of warmer temperatures and a longer growing season in Manitoba will be outweighed by the negatives.

"CO₂ in the atmosphere is plant food," says Bullock. "So if you build it up, plants love it, and you can get measurable increases in biomass production in some of the experiments that have been done."

But at the same time, weeds—with their broader genetic base and speedier adaptability—seem to respond even better to CO₂ than crops. In addition, insects and diseases that are killed off during cold winters are more capable of surviving. That's already happened in British Columbia, where mountain pine beetles that attack area pine forests are enduring the milder winters.

Bullock says that after studying the literature on crop production and climate change, he believes the list of positives and negatives is about equal.

"It becomes very, very difficult to say quantitatively whether we come out ahead or not," says Bullock. "It's not as clear as it might sound."

The results are clearer, however, when it comes to what's taking place now in the Arctic. And it's of particular concern to scientists, who know the Arctic's icy waters help cool the planet.

Northern inhabitants and scientists alike have been witnessing a dramatic decrease in Arctic sea ice for decades. David Barber [BPE/82, MNRM/89], director of the Centre for Earth Observation Science, headed an expedition three years ago to find a large pack of thick, multi-year sea ice in the Beaufort Sea. Multi-year ice survives the summer melt and grows again the next year, and is an important habitat for animals like polar bears. Instead, his team found miles of much thinner, saltier first-year ice.

"We've lost the area of about 70,000 square kilometres (of multi-year sea ice) per year," says Barber, who equates that to roughly the size of Lake Superior. Equally alarming to the Canada Research Chair in Arctic Systems Science: this rate of loss has been ongoing for the past three decades.

"Thirty years ago, when I first started working in the Arctic, the models of the day predicted that we would see what we're seeing today," says Barber, who recently wrapped up Canada's largest climate change research project ever undertaken, the Circumpolar Flaw Lead System Study.

Barber will present the study's findings at the International Polar Year Conference in Montreal at the end of April. The study, whose name comes



BASED ON CURRENT LITERATURE, THE POSITIVES AND NEGATIVES OF CLIMATE CHANGE ON CROP PRODUCTION APPEAR TO BE ABOUT EOUAL.

SOIL SCIENCE PROF. PAUL BULLOCK

from the open water that exists when mobile ice separates from coastal ice, involved more than 350 researchers from 27 different countries.

Research indicates that the Arctic could be icefree for a time during the summer at some point between 2013 and 2030.

"I stand on the earlier part of that range, from the teens to the early 2020s somewhere," says Barber.

That matters, because Arctic sea ice helps reflect the sun's heat. As it disappears, the sun's rays warm the ocean waters. That melting ice is also Killer whales have long been seen in some northern areas, like Baffin Bay, where they feed on other whales and seals. But traditionally, their Arctic access has been hampered by the pointy dorsal fins on their back, which make it hard for them to navigate sea ice. As that ice disappears, the whales are having an easier time going deeper into the Arctic. When they do, Ferguson says they're hunting animals like ringed seals, narwhals and belugas, who at the same time can no longer escape the orcas by hiding under the sea ice.

now we're a little worried it might be a pretty fast, catastrophic process."

This upheaval caused by a changing climate affects the entire Arctic ecosystem. As sea ice melts earlier in the year, it also affects where and when microscopic ocean plants grow.

C.J. Mundy [BSc(Hons)/97, MA/00, PhD/07], an assistant professor in the department of environment and geography, is researching changes in the timing of algae blooms in the High Arctic. Ice algae accumulate in the bottom centimetres of sea ice, and they're a high-energy source of food for zooplankton like *Calanus glacialis*, a tiny, buglike crustacean called a copepod that key species of Arctic fish, birds and whales feed on.

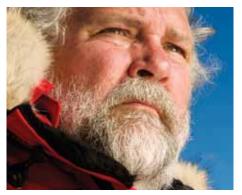
As the Arctic warms, the ice habitat of the algae is melting earlier, meaning the algae have less time to grow and accumulate in the ice bottom.

"This change can cause ripple effects on the ecosystem through a mismatch with grazers that depend on the algae," says Mundy.

For instance, *C. glacialis* rely on energy from ice algae to produce eggs that are themselves timed to hatch during blooms of microscopic plants in the Arctic waters a month or two later.

"If the ice algae are not there, this could affect the recruitment of these zooplankton that particular year and in turn affect the fish and mammals that feed on them," says Mundy.

In the future, the Arctic will be full of species that weren't previously there, Ferguson says. But lost in the coming decades will be animals best adapted to living on, under or near sea ice, like polar bears, belugas, narwhals and certain types of seals.



"WE HAVE TO START NOW IN ADJUSTING AND ADAPTING TO CLIMATE CHANGE, WHICH IS HAPPENING AROUND US."

DAVID BARBER, CANADA RESEARCH CHAIR IN ARCTIC SYSTEMS SCIENCE

releasing more moisture, which in turn causes more precipitation and extreme weather.

Sea ice also appears to play an important role in taking in as well as releasing CO_2 , says Søren Rysgaard, the Canadian Excellence Research Chair in Arctic Geomicrobiology and Climate Change at the U of M. Rysgaard says some preliminary estimates show that sea ice may be responsible for half of the ocean's CO_2 absorption.

"That's a huge potential for the uptake of CO₂," says Rysgaard. "If so, sea ice may play a role in the temperature conditions on the globe."

Interestingly, chemical reactions inside sea ice might also produce some CO_2 , but Rysgaard still isn't sure how much or where it ends up.

Disappearing sea ice also seems to be allowing killer whales—an animal with no known predators—to travel further northwards to hunt prey they previously didn't have access to. In a three-year study, U of M marine biologist Steven Ferguson interviewed Inuit elders and hunters about their observations of killer whales operating in the Arctic.

"We knew the ice was decreasing, we knew there was going to be changes in the range and distribution of animals adapted to the ice," says Ferguson. "But we didn't anticipate that maybe the change was going to happen through predation. We thought it was going to be a slow, easy process, but



"...SEA ICE MAY PLAY A ROLE IN THE TEMPERATURE CONDITIONS ON THE GLOBE."

SØREN RYSGAARD, CANADA EXCELLENCE RESEARCH CHAIR IN GEOMICROBIOLOGY AND CLIMATE CHANGE



"...IF YOU ARE A NORTH-ERNER, THAT'S PART OF THEIR TRADITION, THEIR LIFESTYLE, SO THERE'S A DIRECT HUMAN HEALTH IMPLICATION."

FEIYUE WANG, SERF PROJECT LEADER

Depressed yet?

Don't be, says Barber. In some ways, Canadians will benefit from climate change.

"The Inuit have got very limited options for them to develop an economic base upon which they can live their lives," says Barber.

Extracting Arctic resources like petroleum, uranium and copper could provide them with more jobs.

"These are things that, if they're done correctly and well, will produce a healthy, vibrant, culturally sound lifestyle for Inuit who live in the North," says Barber.

That's why building knowledge on climate change research is so critical—and why the university recently unveiled a new \$1.38 million research facility on sea ice.

The Sea-ice Environmental Research Facility, or SERF, will allow researchers to carry out sea ice experiments on campus in a controlled environment. Different chemical tracers can be added to the seawater in order to track where they end up among the water, ice, salty brine and air.

"The problem with working in the field is the water keeps moving away all the time," says Rysgaard. "So if you have something happen in the sea ice that is pushed into the water, it's carried away. But at the SERF, you can follow what happens with a specific molecule in the sea ice—where it goes in the sea ice. Does it go into the water column, or is it being liberated or transported into something else so it can go into the atmosphere?"

The 60-foot-long, 8-foot-deep pool has a retractable roof, monitoring instruments and heated trailer laboratory. The ice can be easily collected, cut up and studied.

The facility has already grown pancake ice—which looks just like it sounds—and frost flowers. Feiyue Wang, who heads up the project and is a professor in the department of environment and geography, and holds a cross-appointment with the department of chemistry, is particularly excited about the fragile, crystalline blossoms he's seen grow when the pond has thin ice and it's cold and calm out.

"Frost flowers occur commonly in the Arctic Ocean when all conditions are met," says Wang, who studies mercury contamination in the North and its interaction with climate change. "But the opportunities to study them are rare due to the logistical challenges to get to the right location at the right time."

Wang was one of several U of M researchers who worked on a recent study that found decreasing multi-year sea ice and the replacement of first-year ice might be intensifying the release of bromine, which in turn leads to more toxic mercury being deposited in the Arctic.

Wang suspects frost flowers may play a role in those Arctic bromine explosions, and says data from the SERF frost flowers are being analyzed to help better understand their effects on the environment.

The current theory is that the salty frost flowers provide the surface on which chemical reactions occur under the sun; bromine ends up reacting with a gaseous form of mercury, and the latter falls back to Earth as a toxic pollutant.

It's then absorbed by microscopic plants like ice algae, making its way up the food chain to the Inuit.

"Of course many of us don't eat marine animals,



FROST FLOWERS AT SERF FACILITY

Photos courtesy: Ian McCausland, Mike Lastchislaw, Katie Chalmers-Brooks

OURCE: wikipedia.org/wiki/Arctic_Council



PROF. BARRY PRENTICE AT THE UNVEILING OF THE SKY WHALE AIRSHIP

but if you are a Northerner, that's part of their tradition, their lifestyle," says Wang. "So there's a direct human health implication."

Like it or not, the altering climate is forcing us to change. U of M researchers see this as a challenge, not a setback.

Asper School of Business professor Barry Prentice doesn't think using blimps to fly goods up North is crazy. He considers transportation issues to be intrinsically linked to both Northern development and climate change.

Ice roads are critical pathways that provide temporary access over frozen water to Northern towns that otherwise have to rely on costly airplanes for shipping goods. Airships, says Prentice, are a feasible solution to the problem of ice roads becoming less reliable because of warmer winters.

"We can have better access to transport to the whole North," says Prentice, a professor of supplychain management. "Airships are also a very low consumer of fuel. There's even people talking about using the airship's surface for solar cells."

Last December, Prentice unveiled an 80-foot-long airship called the Sky Whale. The slender, snow-white blimp is the first airship to be built in Western

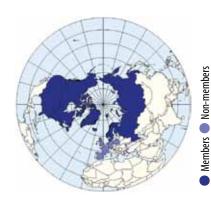
Canada. It's being used for research to develop a bigger one capable of carrying heavy freight in Canada's arduous climate.

"What we're trying to do is really come up with a solution as opposed to prevention," says Prentice.

It may seem foolish to launch ahead with solutions when new discoveries on climate change are occurring every day—studies that will be key to understanding how to best protect our future and manage the Arctic's development.

But Barber likens it to a crystal ball. A hundred years ago, climate science was very murky, and there was little information as to the future climate of the planet. That crystal ball has been getting clearer as science improves, he says.

"Unfortunately, climate change is not the kind of thing where we can wait around until we have it all absolutely figured out," says Barber. "So we have to start now in adjusting and adapting to climate change, which is happening around us, while at the same time continuing to do the science that allows our predictions to get better and better as we move into the future. But we can't just sort of not do anything just because there's uncertainty. There will always be uncertainty."



THE ARCTIC COUNCIL: USING DIPLOMACY TO PROTECT THE NORTH

Canada is an Arctic leader in more than just research. Next year, Canada will begin its second stint as chair of the Arctic Council, an intergovernmental forum on Arctic issues. The leadership position provides Canada with a chance to influence decisions being made on Northern issues at a criticical moment in history.

Some of the key issues Canada will face as chair are access to waterways, development of Arctic resources and who can be a member of the council. Currently, there are eight 'Arctic' council members, including Russia and the U.S. Six non-Arctic countries are permanent observers—and seeking to get in on the party are countries like Japan and China.

"Canada's by and large policy has not been very supportive of non-Arctic nations engaging in issues—political issues—regarding the Arctic," says James Fergusson [MA/86], a U of M political science professor.

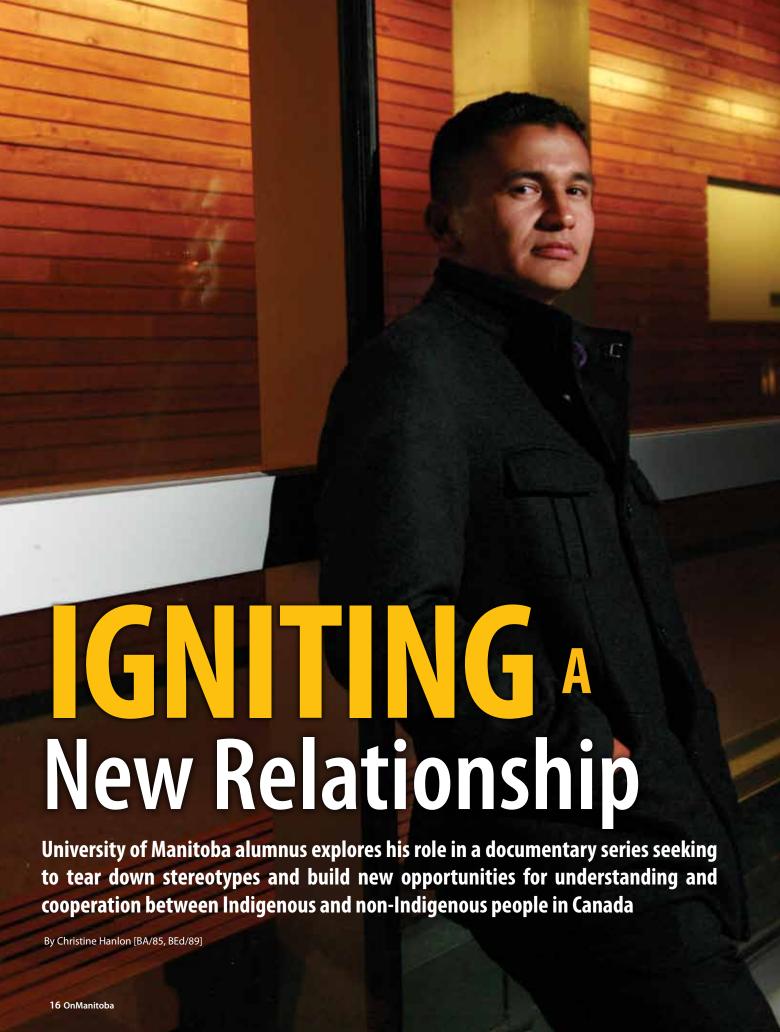
But it's a lot more complicated than simply telling a country 'no.' Political science professor George MacLean says Canada will have to rely on its negotiating skills to keep the number of council members limited and to keep countries like China engaged.

"Don't just expect the Chinese to go away happily," says MacLean. "They'll probably go off and act on their own."

Canada's has been treading both side of the Arctic issue for decades, he adds.

"We want our sovereign concerns—the resource issues and the potential for exploring and exploiting, I suppose, the North in our favour—but we just don't have the means to do it," says MacLean. "We don't have the technology to be sailing in subs underneath the Arctic ice and we don't have a navy that really has a northern presence."

Fortunately, negotiating skills are a lot cheaper than used submarines.



In the second episode of CBC's 8th Fire, host Wab Kinew looks into the camera and says firmly, "Get over it!" It's a phrase too often lobbed at Aboriginal people, including Kinew, an Anishinaabe from Ontario's Ojibways of Onigaming First Nation. But this time the message is for non-Aboriginal Canadians. The target: the malaise in their interactions with Aboriginals, Canada's fastest growing population, half of whom now lives in cities.

he 30-year-old father of two describes the series as an "in-your-face argument" for why we all need to "get over" our dysfunctional relationship, for the sake of our country and our shared future. "It's been 500 years," says Kinew. "It's time to fix it."

As a television journalist and acclaimed hip-hop artist, Kinew sees the media as one avenue towards building a relationship that works. The son of Grand Chief—later Regional Chief of Ontario—Tobasonakwut Kinew, Wab was encouraged at a young age to become an ambassador for Indigenous culture.

When his family moved to Winnipeg, Kinew encountered racism and discrimination in the St. Boniface French Immersion program where he was often the only native student in the class or even the entire school. In response, his parents helped him put on a powwow demonstration for the other students.

"They would also get me to talk in front of Chiefs' meetings or gatherings of elders," adds Kinew, a naturally shy child who gradually grew more confident with public speaking. In fact, when he was 10, his mother arranged to have him speak at the Royal Commission on Aboriginal Peoples about his experience in an Ojibway language nursery program.

Last year, Kinew had the chance to reconnect with the woman who started the program in the 1980s. She informed him that all the children who attended the nursery had graduated from high school and university.

Education has become today's buffalo, says a student of First Nations University Canada in one episode of 8th Fire. While Kinew's parents emphasized the value of education as well, their son is taking the message one step further.

The young journalist strongly believes that engaging non-Aboriginal Canadians in building a new, more positive relationship also involves education. He sees 8th Fire as a way to disseminate important facts about Aboriginal people and their relationship with the rest of Canada in a compelling, non-blaming way. "We're taught that our interests are mutually exclusive," he explains, "and that what we want comes at the expense of non-native people. We're also taught that when non-natives win, it's at the expense of native people."

He believes this old American-style paradigm needs to change. Canada's history, notes Kinew, includes many examples of cooperation, and so should its future. The message may be starting to get through. People who watched the series and responded to CBC by Twitter and Facebook have indicated they are telling their friends. Some are talking about the issues with their children and family members for the first time. "What 8th Fire can do is act as a launching pad for discussion to get the conversation started," says Kinew.

Some of those conversations can be painful. No one knows this better than Kinew who chronicled his father's residential school experience in a documentary shown at the launch of the Truth and Reconciliation Commission led by Justice Murray Sinclair [LLB/79, LLD/02]. (Kinew also laid his job on the line, insisting CBC reference residential school "survivors" rather than "students".)

Working on the series was equally personal for U of M alumna Coleen Rajotte [BA(Adv)/89], a producer for 8th Fire's first episode. Like many other children, she was taken away from her family and given to non-Aboriginal parents during the "Sixties Scoop".

THE WHAT ON WAB



The documentary host: **cbc.ca/doczone/8thfire**



The rap artist: wabkinew.ca



The newsmaker: video.ca.msn.com/watch/video/wab-kinew/16bgjdhdc

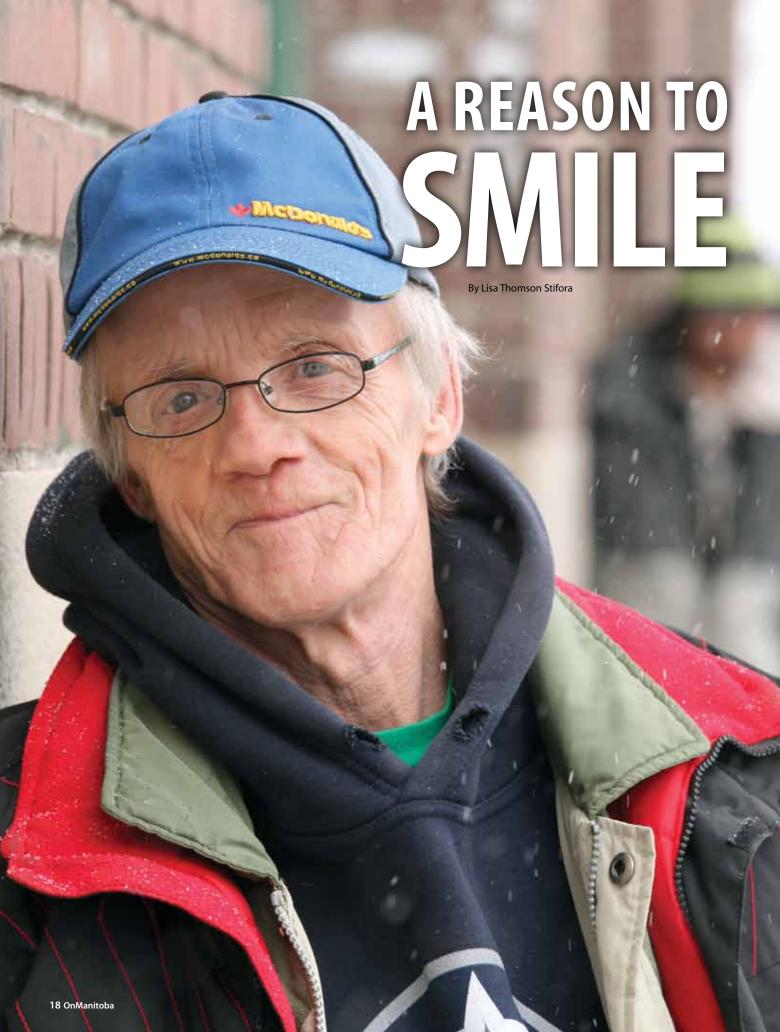


The headline grabber: issuu.com/newtribemagazine/docs/march_nt_2012web



WEB EXCLUSIVE: For more from our interview with Coleen, visit umanitoba.ca/people/ alumni/manitoba/ index.html.

continued on page 36



The new teeth will change the lives of program participants. "Teeth are a class definer," says Vicki Olatundun, manager of

Niznick's gift, the largest private donation ever received by Dentistry, is helping to place the faculty at the forefront of a new dental implant procedure—implant-supported overdentures—that produces better results than traditional complete dentures. Normally the implants would cost at least \$10,000 per patient; Niznick's gift has enabled the faculty to give them to these 35 patients for free.

"Dr. Niznick is known for his philanthropy," says Dean of dentistry Dr. Tony Iacopino. "However, this gift is unique as it



Bryon Ohrling (opposite page) and with third-year dentistry student Amrit Bains



From left: U of M President David Barnard, Dr. Gerald Niznick and Dr. Tony lacopino

Siloam Mission's Saul Sair Health Centre. "Basically, if you have teeth you are someone for some reason. If you don't have teeth you're already put in a lower bracket. So a sense of self-esteem and hope for many of them is what this program will do."

Bryon Ohrling is among the first 13 patients who will receive the state-of-the-art implants and says he feels blessed to be included. "I'm ecstatic! I didn't have any teeth for a long time. I had most of them pulled out about four years ago."

Those years have been hard on Ohrling's self-esteem. "I had a problem with looking at myself without the teeth. I'm getting over that." He says he's excited to see the finished product, which will take shape during the course of 12 weekly visits. "They told me when they are through with me I'm going to look like a million dollars."

The implants however, will do more than just improve confidence. Dr. Igor J. Pesun [DMD/87], department head of restorative dentistry at the university, emphasizes that the implants are completely functional. "We're not just talking about a nice smile," he says. The new teeth will give recipients the ability to eat and chew properly and vastly improve their overall health. One patient said he was looking forward to eating a juicy steak when the process is complete.

Photo: Jason Halstead [BPE/92

targets a critical unmet need for an underserved population and it will dramatically improve quality of life for these patients."

An international leader in the field of implant dentistry, Niznick holds 35 US patents and founded Core-Vent, Implant Direct and Implant Direct Sybron International. His success enables him to give significantly towards dental education, helping to foster innovation and excellence.

"I am proud of my contributions to this cause," says Niznick. "It will provide dental students and faculty with a rewarding experience that will positively influence their perspective on dental implant therapy."

The University of Manitoba is the lead institution in a multiuniversity study documenting the benefits of the overdenture type of treatment pioneered by Niznick in 1982.

Dentistry students are excited to have the opportunity to practice this leading-edge procedure as part of their undergraduate education, while also helping create impact in the lives of others.

"It's a great learning opportunity for us," says Bola Famuyide, a third-year dentistry student. "And it is a great way to give back to the community as well."



LOST THEN FOUND

Yiddish is on a comeback. This rich and complex Germanic language spoken by Jews around the world has been declining since the 1950s. A dedicated group of Winnipeggers is helping restore this ancient language to its former glory

By Stephanie Fehr

in North America. In the 1920s there were approximately 10,000 Yiddish speakers, a Yiddish newspaper and Yiddish schools. Today, only about 600 Winnipeggers speak the language fluently.

Ben Baader, an associate professor in the department of history and the U of M's coordinator of Judaic studies, says a number of factors, including the devastating effects of the Holocaust in Europe as well as the normal process of acculturation for North American Jews, contributed to the decline of Yiddish in North America.

"Yiddish declined because people were integrating into the predominant culture, as other immigrants were also doing in North America. But this change was more dramatic for Yiddish because there is no home country where it is the national language," says Baader, noting that the official languages of Israel are Hebrew and Arabic.

The grandparents of alumnus Lawrie Cherniack were at the forefront of the Yiddish speaking community in Winnipeg during the '20s. Today, Cherniack is committed to helping preserve the use of Yiddish so that the rich literature and culture survives. He has fond memories of life at his grandparents' house where Yiddish poets, playwrights and novelists visited on a regular basis.

"Yiddish is a fine language," says Cherniack [LLB/75]. "Today I have trouble speaking Yiddish and it saddens me that it is not in use. It is a very nuanced language and I want to see that it survives."

In the past number of years, a growing number of people have been feeling the same way.

While there have been high school classes and an introductory first year university Yiddish course, the need for something more became apparent to people in the community, says Cherniack.

"There was no place for anyone to go on from there," he says. "You could learn the letters and the words, but students weren't reading one of the richest literatures in the world."

Members of Winnipeg's Jewish community, including the I.L. Peretz Folk School Endowment Trust, Gray Academy—a local Jewish school—and 20 private donors addressed this shortfall through a fundraising campaign and the creation of the I.L. Peretz Folk School Yiddish Teaching Fellowship.

This two-year fellowship will bring a Yiddish scholar to the University of Manitoba who will teach a Yiddish literature and language course at the university and develop a curriculum for high school courses at Gray Academy.

The response to the campaign has netted nearly \$150,000—almost \$20,000 over their goal and enough to support a fellow for the first two years.

"The Peretz Endowment Trust is helping to fund this, and there has been tremendous support from the dean of arts, Gray Academy, as well as through private fundraising," says Cherniack, who has also contributed to the effort, along with members of his family.

Baader says the goal of the fellowship is to boost the presence of Yiddish and Yiddish culture in Winnipeg and he hopes the momentum around the fundraising effort continues. "Winnipeg was once a famous centre (for Yiddish) and with ongoing community support, there is no reason it couldn't be again."

"Grandparents are very excited that their grandchildren have the chance to learn Yiddish at university," he adds.

And so are students like Jacqui Usiskin, who learned Yiddish from her grandparents and father and hopes to see the language endure for future generations.

"This course will have a great impact on the community, hopefully raising awareness of the importance of Yiddish to the Jewish culture," she says.

REACHING NEW HEIGHTS

After an 8.5-hour trek, Marian Lowery and the 2011 Ascent for Alzheimer's team reached the summit of Mount Kilimanjaro on October 3, 2011, and raised \$127,000 in the process

By Sylviane Duval 22 OnManitoba

he Snows of Kilimanjaro is a short story by Ernest Hemingway that you can read in any armchair. The hike to the summit of the world's tallest free-standing mountain you have to do on foot—every last, gritty step of its nearly 6,000 metres. Nonetheless, Marian Lowery remembers it as the experience of a lifetime.

The team starts their final ascent on a clear, starry night, and watch a spectacular sunrise on a carpet of clouds. There is still another hour of climbing, but the end is in sight and the hardships have been worthwhile.

Back in B.C., the team's guide and trainer, Sue Oakey, had spoken often of "digging deep." For her mental preparation, Lowery decided to carry a sheet with the names of her sponsors to remind her of her purpose, but...

"...the altitude makes your brain foggy, and the names disappeared from my head," she explains. "I had to choose between standing still and remembering names, or following my guide's red shoes."

To her surprise, Lowery found camping a greater challenge than climbing. Her



Lowery, right of banner, and the Ascent for Alzheimer's team celebrate their climb

For her physical preparation, Lowery trained assiduously. At 63, and as the only senior citizen on the team, she was concerned about lagging behind.

"My knees and quads aren't as reliable as they were so I had to compensate," she says, grimacing. "If we had had to work hard on the way down—we 'boot-skied' instead—I'd have popped a lot more Advil than I actually did!" sleeping bag, although rated for Arctic conditions, proved inadequate. ("Must've been a knock-off!") She had to stuff it with clothing just to keep her feet warm. Every evening, the pressure to prepare the night's bedding and the next day's gear before the equipment froze often came at the expense of washing. The ubiquitous, black volcanic dust filled her nostrils and ears, and stuck to her skin in layers.

THE MOUNTAIN

Kilimanjaro is a dormant volcano in the Kilimanjaro National Park, Tanzania.

Every year, 20,000 to 35,000 people attempt to reach the summit. None of the routes require technical skill, specialized equipment or extra oxygen, making the climb manageable for most people who are motivated, train adequately and can face some hardship and discomfort.

Nonetheless, the elevation, low temperature, and occasional high winds make it a difficult and dangerous trek. The summit is well above the altitude at which high altitude pulmonary edema or high altitude cerebral edema can occur. Climbers are likely to experience shortage of breath, hypothermia, headaches and some degree of altitude sickness.

THE OUTDOOR GIRL

Marian Lowery grew up in Winnipeg, and graduated from the University of Manitoba with a bachelor of human ecology in 1969 and from Simon Fraser University with an MA in 1996. Relishing physical challenges, Lowery has hiked, kayaked and skied B.C.'s mountains and waters most of her adult life. She treated herself to an ocean kayaking expedition to celebrate her halfcentury, and ran a half-marathon in 2001. Now retired from teaching French and Spanish to high school students, she is an avid reader, a weaver and the author of an historical novel.

BIO-LO GICAL



It only makes sense that a university with a reputation for leading-edge scientific research and education also boasts the most modern laboratories and classroom facilities. The recent opening of the biological sciences building—which involved a \$13.26-million renovation of pharmacy's former home—shows the U of M's commitment to creating the best possible learning experience for students and staff.

The state-of-the-art facility now houses two of the largest courses in the department: first-year anatomy and first-year physiology. Recently expanded, these courses are part of the training for Manitoba's corps of scientists, nurses, doctors, optometrists, veterinarians and teachers. Overall, more than 3,000 students from U1, Science, Agriculture, Engineering and Kinesiology will pass through its doors each year to study everything from molecular genetics to boreal ecology. At the same time, they can also take advantage of the renovated spaces a hop, skip and jump across the pedway in the Buller building, a project 10 years in the making which, much like the current work at Taché Hall, involves redevelopment of an iconic space (inside, it's a cutting edge teaching and research facility while outside it retains its 1932 classic Collegiate Gothic style).

In these facilities, researchers are tackling challenges ranging from controlling the mosquito population and unlocking the secrets of deadly diseases, to saving endangered species like sturgeon and addressing Manitoba's flood problem. The success of their work, and our province's ability to help advance modern society, depends on the steady recruitment of new minds and fresh ideas; equipping them with the tools to do their work is a definite draw.

"Thanks to the funding for these facilities, we are able to attract and retain worldclass scientists to train the young people in our province, and together they will find the answers to the challenges faced by our society and our environment," say Mark Whitmore, Dean, Faculty of Science. Training and retaining our best students contributes to our prosperity, health and wellbeing, now and in the future."

Christine Hanlon [BA/85, BEd/89]

From left: Prof. Archie Cooper, Norma Alexander and dean Emily Etcheverry [DipOT/71, BOT/79, MEd/90, PhD/97] hope you can join them for SMR's 50th. Photo: Dan Gwodz

celebrating a Half Century of Education in MEDICAL REHABILITATION

When Leonore Saunders [BPT/72] arrived in Manitoba in the 1950s, she was among a select few physiotherapists in the province. Not one to shy away from a challenge, the mother of five lobbied successfully to create the School of Medical Rehabilitation at the University of Manitoba. In 1962, the university graduated its first class with diplomas in physical therapy or occupational therapy.

"If it hadn't been for Leonore, we wouldn't be celebrating our 50th," notes professor emeritus Juliette 'Archie' Cooper [BOT/79, MSc/82, PhD/87]. "She was absolutely tireless."

This year, Medical Rehabilitation graduates of all stripes are invited to celebrate the school's 50 years of colourful history. A gala is planned on the Bannatyne Campus with many more events to be held during Homecoming weekend.

For complete event details, contact Norma Alexander (nalexa@cc.umanitoba.ca or 975.7735).

To learn more about distinguished graduate Leonore Saunders, visit bit.ly/y6ghU9.

Christine Hanlon [BA/85, BEd/89]





HOCKEY PLAYING ROBOT

Jennifer, a pint-sized puckster created by the U of M's Autonomous Agents Laboratory, stole headlines and some air time on Discovery Channel's *Daily Planet* recently. Believed to be the first-ever humanoid robot hockey player, Jennifer was an entry in the 2012 Darwin-OP Humanoid Application Challenge. Visit aalab. cs.umanitoba.ca for more details and video of Jennifer in action.



CAMPAIGN WINS

The U OF M'S SUCCESSFUL TRAILBLAZER MARKETING CAMPAIGN captured critical acclaim from peers recently, notching 8 WINS (two golds, three silver and three bronze) at the 2011 CASE District VIII Communications Awards.

BISONS

BISON ROOKIE MAKES HISTORY

On the heels of his MVP performance at the 2012 International Bowl, first-year Bison running back Anthony Coombs became the first Bison student athlete to ever make it into the Faces in the Crowd section of *Sports Illustrated* magazine.

PHOTO EXHIBIT DOCUMENTS DARK CHAPTER IN CANADA'S HISTORY

A traveling photo exhibit illustrating the history and the legacy of Canada's Indian Residential School System made a recent stop at the U of M. Special guests joined president David Barnard at the Feb. 27 opening including Elders and Residential School survivor, and former National Chief of the Assembly of First Nations, Phil Fontaine [BA/81, LLD/10].

Where are the Children? Healing the Legacy of the Residential Schools gives a sobering look at how Aboriginal children were taken away from their parents, their culture and their way of life. Testimonials, maps and records, classroom images of young faces stripped of their smiles, beforeand-after shots of children 'converted' from Indigenous to non-Indigenous ideals document the audacity of the Residential School program. But the display, which has been to 21 communities since its inception in 2001, is also an acknowledgement of Residential School survivors' commitment to healing and building a greater understanding between Indigenous and non-Indigenous people in Canada.

For more information on the exhibit, operated by the Legacy of Hope Foundation, visit legacyofhope.ca.



1,200 ... AND COUNTING

The list of accomplishments associated with Garth Pischke's volleyball career is so prodigious that the numbers quickly become overwhelming. As a player: 30 national championships, 12 Canadian National All-Star Teams, six MVP awards, two Olympics (1976 and 1984) ... As a coach: 31 years at the helm of the U of M men's volleyball squad, four years as national men's head coach—during which time he helped the team climb the ranks from 21st to 10th in the world—nine Canadian Interuniversity Sport (CIS) gold medals, nine silver and five (as of this past March) bronze ... and the list goes on.

One number that stands out is Pischke's more than 1,206 coaching wins with the Bison, more than any other coach in CIS history. Across all levels, from high school and club teams to Volleyball Canada Open Championships, he has coached more than 22,000 matches and had 1,737 wins.

But when asked about his greatest source of satisfaction, Pischke pushes all those numbers aside. His ultimate joy, he says, is to see son Dane and daughter Taylor excelling on the volleyball court. Taylor will join the Bison women's squad for the 2012-13 campaign while Dane is now in his fourth year with Bison men's volleyball team. *On Manitoba* contributor Christine Hanlon [BA/85, BEd/89] caught up with Garth and Dane, prior to their trip to nationals, at the Frank Kennedy Centre.

OM: Most memorable moment?

G: Qualifying for nationals this year with my son being part of it. (The men's volleyball team finished third in the national tournament.)

OM: Best part of coaching?

G: I've enjoyed some of the times we came second as much as the times we won because some of those teams had no business making it into national finals and they just overachieved.

OM: Secret to your success?

G: You try to teach these guys that if they work as hard as anybody else, they can achieve their goals, whether it's in business, volleyball or academics.

OM: Key piece of volleyball wisdom from your father?

D: He taught me all I know about the game.

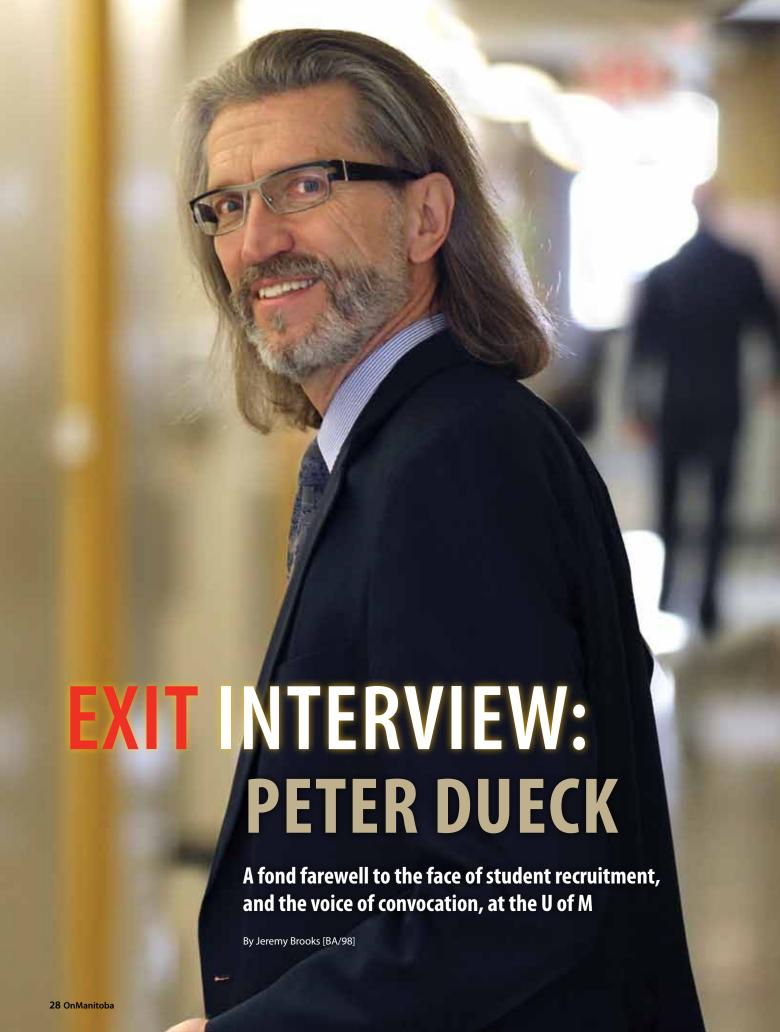
OM: Best part of playing?

D: I like how fast-paced it is. But if you make a mistake early on, there's also a lot of time to make that up.

OM: Plans for the future?

D: Keep playing volleyball after my five years at university and eventually a career in business.





If you are one of the alumni who remember his voice, his face, his spot-on pronunciation of your name at convocation, or the brief encounter before the ceremony when he picked you out from a crowd of hundreds to ask you, ask you, how to pronounce your name correctly: his is Peter Dueck. He's called more than 30,000 graduands to the podium to receive their parchment, but for the first time since 1997, he won't be the voice of convocation.

rom his fourth floor office in University Centre, Dueck reflects on his more than 20 years at the University of Manitoba, most recently as executive director of enrolment services. Boxes piled between his desk and conference table seem to to point west, in the direction of his next challenge: director of admissions and registrar at Royal Roads University in Victoria, B.C., a position he assumes at the beginning of April.

Arranged on Dueck's desk (in the incorrect orientation, he is quick to point out) are miniatures of the Pyramids of Giza, reminders that his career, and his impact on students always began at the beginning—long before he'd ever called a single graduand to the podium to accept their parchment—in student recruitment and, most significantly, international student recruitment.

In the late '90s, the U of M made a concerted effort to open its doors to students from across the globe. This happened for various reasons, one of them, as Dueck notes, being a desire to create a diverse learning environment. "We wanted to bring a multicultural student population to the University of Manitoba," says Dueck. "We wanted to bring that diversity right into the classroom and we wanted to allow that diversity to change the way we thought about post-secondary education in Manitoba, so there was more of a conversation between and among cultures."

Working with then vice-provost (student affairs) Dave Morphy, the pair undertook recruitment trips to distant locales such as India and Egypt. Those early days were a grind (Dueck points to the failure of other Canadian schools as evidence) but through sheer effort, the U of M gained considerable traction. "Over the first, say, half-decade, of the work we did there, we had double-digit rate increases each year in enrolment numbers of international students," he says. "And one year we hit, I think, more than a 40 per cent year-over-year increase. And that was dramatic, it was revolutionary, really, because it changed the face of the university."



Preparation is key: Dueck, doing one of many pre-convocation name checks

It changed the lives of the students who came to the U of M as well, like the young man from Cairo who, years after meeting Dueck at a recruitment fair, made an evening visit to his office, three pint-sized pyramids in hand.

"I heard someone walking down the hall ... it was very hesitant steps," recalls Dueck. "Somebody stopped in front of the door (which bears Dueck's name and title) and kind of walked in a little and gave a very light knock. I opened the door and saw someone standing there ... he looked vaguely familiar, but I just couldn't quite place him. A smile lit his face and he came toward me and he said, 'Hi Mr. Dueck, do you remember me?' I said 'Kind of but I don't remember where from.' And he said, 'Well, you were in Cairo and you described the University of Manitoba and I decided to come, and, here I am. I've been here for some time and I've had a great time and just wanted to come up and thank you and tell you that I actually showed up.' And one of the things that was remarkable was that I wasn't sure if that visit (to Cairo) had been successful at all."

2011 ALUMNI ASSOCIATION AWARD WINNERS

Whether it was through creating stronger communities or pursuing a path towards peace and conflict resolution, our 2011 award recipients are a pair of visionary students who are 'builders' in their own right



THOMAS HALL – Alumni Association Inc. of the University of Manitoba Bison Scholarship

With his bachelor of kinesiology degree completed this spring, Thomas Hall has already moved on to the next step of his academic career: applying for Medical School at the U of M. His goal? A career in sports medicine or orthopedic surgery. Hall says he chose to study at the U of M because, "I knew that I could get a great education while staying at home in the city that I love."

Outside the classroom, Hall excels in a variety of other pursuits from gridiron to grassroots. A linebacker on the Bison men's football team since their perfect season and Vanier win in 2007, Hall has twice won the Russ Jackson Award (in 2009 and 2010) as the CIS football player who best demonstrates competence in the classroom, service in the community and excellence on the field. He was also a regional finalist for a Rhodes Scholarship in 2011.

Today, Hall continues to give back through his involvement with Winnipeg-based Project Echo, an organization committed to making Winnipeg a better place by encouraging all Winnipeggers to take an active role in community building initiatives. Hall credits his parents for inspiring him on his life's path. "My parents have always been the ones to teach me about values, moral thinking and working hard. I have looked up to many people and taken pieces of inspiration from them, but my main influence has always come from my family."



PETER KARARI – Alumni Association Inc. of the University of Manitoba Graduate Award

A self-described "global citizen", Peter Karari is pursuing an appropriately globetrotting educational path. To date, his journey has taken him from his home in Kenya, to Germany to the University of Manitoba where he is currently working towards a PhD in Peace and Conflict Studies.

Karari is now in Kenya doing research on his thesis which explores a hybrid approach of The Truth, Justice and Reconciliation Commission, the International Criminal Court and Indigenous approaches as a vehicle for both peace building and a greater understanding of the ethnopolitical divide, and violence, that have embroiled his home country for more than two decades.

Upon completion of his PhD, Karari hopes to teach at the U of M for a couple of years before pursuing international fieldwork in the areas of peacebuilding and conflict resolution. He says his ultimate goal is to return home because, "I believe that all scholars in the diaspora should eventually go back to their countries to facilitate social economic growth and give back to their communities."

During his time at the University of Manitoba, highlights for Karari have included seeing Manitoba Health benefits extended to international students after a two-year lobbying campaign as well as winning both the Nahlah Ayed and the Paul Fortier awards in 2010 for student leadership and global leadership, and student activism respectively. Karari offers the following words of inspiration to his student peers: "As young leaders, we must deviate from replicating injustices and impunity as seen among some political leaders around the world. We must live by examples; we must be different by acting different, because injustice anywhere is a threat to justice everywhere."

2012 AGM JUNE 25

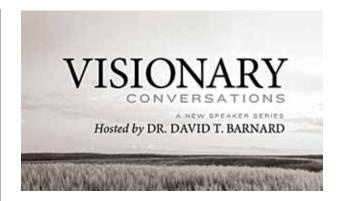
Join us at AGM 2012 and engage with your alma mater in more ways than ever before.

With the ARTLab—a bold new creative space that will inspire artists at the U of M for decades to come—serving as our venue, attendees will be immersed in one of the exciting new learning environments that are transforming the U of M's campuses. Building on that energy, guest speaker Gary Thompson, an alumnus and director of Active Living at the U of M, will share insights on how to become engaged with the U of M, as well as update you on another community-facing project at the U of M that all alumni can be a part of: the Active Living Centre.

In addition to helping us celebrate the successes shaping the future of your alma mater, AGM 2012 is also an invitation for you to have your say on decisions that will guide the future direction of your alumni association.

During 2011-12, the Alumni Association collaborated with the University of Manitoba on a governance review process that resulted in a new relationship, one that will be discussed at the AGM and which is reflected in a proposed set of revised bylaws that will be voted on at the meeting. We encourage your input and attendance. To review the revised bylaws in advance of the meeting, visit umanitoba.ca/people/alumni/bylaws.html.

Time and location: Monday, June 25, 2012 Room 136, ARTLab, 180 Dafoe Road Meeting commences at 6 p.m., with a light dinner to follow at 7 p.m.



HITS THE ROAD

The U of M's popular speaker series, Visionary Conversations, debuted in Victoria and Vancouver in February, followed by Calgary in March. Future out-of-town events are being planned. Visit umanitoba.ca/people/alumni/events/179.html for more details.

BOARD OF GOVERNORS UPDATE

Romel Dhalla [BA/99, BComm(Hons)/04] was acclaimed by the University of Manitoba Board of Governors for a third term as an alumni representative. Dhalla joins Rennie Zegalski and Gwen Hatch on the board.



ENTERTAIN U

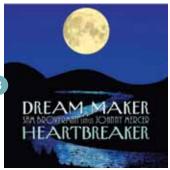
The Alumni Association is pleased to provide its members discounts on performance and sporting events throughout the year. Details on some of the latest offers our partners have created for you can be found below. For a complete list of events, dates and offer details visit umanitoba.ca/people/alumni/events/index.html.

Accomplishments







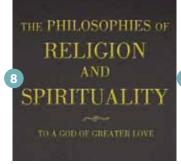




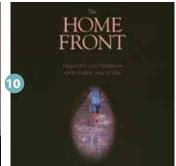


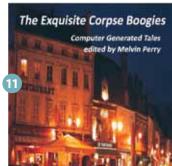


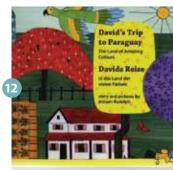






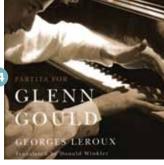












Find A Friend

IT'S AS EASY AS 1-2-3... The Alumni Association is pleased to help graduates reconnect with former friends and classmates. Please fill in the form located on our website at: umanitoba.ca/alumni/find_a_friend.html

1 Beeler, Nathan [MMus/06] was awarded a Prime Minister's Award for Teaching Excellence (2010-11). For the past decade, Beeler has taught music at Charles P. Allen High School in Bedford, N.S. "I owe a great deal of my work to the excellent teaching at the U of M school of music," says Beeler. "Thanks U of M! You are making a difference!"

Congratulations as well to the three other U of M alumni who also earned this honour in 2011: **Binne, Alan** [BEd/96, BSc/94], **Einarson, Tamara** [BEd/95, BA/94] and **Pellerin, Benoit** [B En Ed/87].

- 2 Bollman, Ray [BSA (Hons)/70, MSc/71] received an honorary doctorate from Brandon University (BU) at their 100th convocation in June of 2011. Bollman, who has spent more than four decades with Statistics Canada, and where he is presently chief of the research and rural data section, was also a Stanley Knowles Visiting Professor at BU from September to December 1996.
- Broverman, Sam [BSc/72, MSc/73, PhD/76] has been a professor of actuarial mathematics at the University of Toronto since 1980 but is also a singer. Earlier this year, he released an album of 12 Johnny Mercer covers titled: *Dream Maker, Heartbreaker Sam Broverman Sings Johnny Mercer.* On the Web at brovermusic.com and sambroverman.com.

Courtney, John [BA/58]was awarded the Mildred A. Schwartz Lifetime Achievement in Canadian Politics by the American Political Science Association. Courtney is a senior policy fellow with the Johnson-Shoyama Graduate School of Public Policy at the University of Saskatchewan. Courtney also received the Celebrated Alumni Award from the U of M Faculty of Arts in 2007.

Ginsburg, John [BSc(Hons./72, MSc/73, PhD/75] recently released his first e-book, *Fine Times*, on Amazon.com and iTunes. Ginsburg was most recently a professor at the University of Winnipeg (Department of Mathematics and Statistics) and, prior to that, a lecturer at the U of M from 1976 to 1977.

4 Grant, Karen R. [BA/75, MA/78]has been appointed provost and vice-president (academic and research) at Mount Allison University. A professor of sociology at the University of Manitoba, she is currently vice-provost (academic affairs) and previously served as associate dean (research and faculty development) in the Faculty of Arts.

Grose, Bob [BA/66] received the 2010/11 Sport Citation Award from the City of Edmonton. Grose is president of Squash Alberta.

6 Hooper, Jim [BA(Hons)/69]was elected to the British Columbia School Counsellors Association in October 2011. Since 1999, Hooper has been an elementary counsellor with the Maple Ridge school board. Prior to this, he was a journalist, high school teacher and university instructor.

Hou, Yanming [PhD/96] received the American Society of Agricultural and Biological Engineers (ASABE)'s Rain Bird Engineering Concept of the Year honours for 2011. Hou's development—the Diesel Saver Automatic Productivity Management (APM) System—is a fully integrated drivetrain management system for high horsepower tractors that provides maximum efficiency with minimum fuel consumption, as well as reducing noise and operator fatigue.

- Jeffery, Corrine [CertNurs(PH)/68, BN/71] released Arriving: 1909-1919, which is the first book of her Understanding Ursula historical fiction trilogy. The books are the realization of a dream eight years in the making for Jeffery, who set her sights on becoming a writer upon retirement from her career as a nurse and educator at Grant MacEwan College. Visit corinnejeffery.ca for more information.
- Walb, Miriam [PBCertEd/94, BFA(Hons)/04] writes, "There is life in the sunset years," and along with that sentiment announces her first book, written under the pen name K.C. Konrad, titled: Lead Me Not Into Temptation; I Can Find it Myself: Grandma Goes Online. This humorous paperback provides an insight into the questions and concerns that can arise for the senior single and the online dating concept. Kalb's book can be found at McNally Robinson Booksellers, and you can follow her on her blog: miriamkalb.blogspot.com.

Kalra, Yash Pal [MSc/67] received the Citation Award from the City of Edmonton and the Salute to Excellence Committee in 2011 for his distinguished service as a volunteer. In the last 35 years, he has volunteered for more than 40 organizations, served as judge at the Edmonton Regional Science Fairs for 22 years and, last year in the months of July and August alone, gave 104 volunteer hours at 11 Edmonton events.

8 Lefteruk, Lloyd S. [BA/70] recently published The Philosophies of Religion and Spirituality, which is an in depth treatise and history on religion, spirituality, and mysticism. (Available in paperback and as an e-book.)

Lewkowich, Ian [BSc(Hons)/97, PhD/04] has received an Unrestricted Grant from the American Thoracic Society. The award recognizes Lewkowich's achievements as an outstanding early-career scientific investigator and will support his asthma research through the Cincinnati Children's Hospital Medical Center.

9 McLeod-Stecy, Tracey [MSc(ME)/90, ExtEd/94] recently published *The Stone Guardian*, which is a fiction novel for kids ages 10 to 14. The book is available at McNally Robinson Booksellers (Grant location) as well as on indigo.ca and amazon.ca.

Michon, Robert [B.Sc.(Hons.)/78] has been appointed to the Board of Directors of Sogema Technologies Inc. (STI). STI, with offices in Montréal and Paris, provides taxation and budget management software currently in use in 24 countries.

- Owen, Margaret Dennis [BA/55, BPed/56, BEd/77, MA/2008] has published a memoir-The Home Front: Hopscotch and Heartache while Daddy was at War. She was seven years old in 1941 when her father, Lieutenant Victor Dennis of the Winnipeg Grenadiers, was sent with his regiment to defend Hong Kong against an attack by the Japanese army. Her book tells the story of how she, her mother and her two siblings were left behind, not knowing whether their husband and father was dead or alive, and unable to communicate with him for four long years. Except for brief letters that took years to arrive, the only news that the family received was through the Canadian government and the Red Cross in the form of telegrams and official letters. This book portrays, with both poignancy and humour, many aspects of life in Canada during the dark days of World War II.
- Melvin, Perry [BSc(Hons)/67] began a publishing career after retiring from the finance industry. In 2011, he published three books: The Exquisite Corpse Boogies, B.G. Bhagee: Memories of a Colonial Childhood and The Impurgated Austen. Visit smashwords.com/profile/view/nivlem for more information.
- 12 Rudolph, Miriam [BFA (Hons)/07, BEd/10] recently published *David's Trip to Paraguay, the Land of Amazing Colours.* The book received a Best Illustrated Book nomination for the Manitoba Book Awards 2012.
- Shane, Fred Dr. [MD/65, DipPsych/70] has published an e-book on middle age: Keeping Your Cool Thru Your Midlife Meltdown. Visit Shane's website, keepingyrcool.com, for more information. Cover illustration for Shane's book was provided by fellow alumnus Chris Chuckry [BA/87].

Shindleman, Robert [BA/72] was co-recipient, along with his brother Sandy, of the B'nai Brith Canada Award of Merit for 2011. The honour recognizes exceptional Canadians making significant contributions to their local communities.

4 Winkler, Donald [BA(Hons)/61] was awarded the 2011 Governor General's Literary Award for French to English translation, for his translation of *Partita for Glenn Gould*, by Georges Leroux. This is the second time he has received this honour.

In Memoriam

The Alumni Association Inc. of the University of Manitoba extends their condolences to the family and friends of the following alumni:

1930-39

Adams, Edward V. (Ted) [BSc(EE)/34] Nov. 21, 2011

Bayly, Alan M. [BSc(Hons)/37] Oct. 26, 2011

Hobbs, Dr. James A. [BSA/35, MSc/40] Sept. 24, 2011

Katz (Shack), Freda S. [BA/35, Cert Ed/36] Nov. 5, 2011

Olson, Kristin [BA/36] Dec. 5, 2011

Ritter, Elsie A. [BSc/35] Sept. 28, 2010

Schwartz, Dr. Benjamin [BSc/38, MD/45] Dec. 27, 2011

Wallace (Wylie), Florence Jesse [BA/34] Dec. 10, 2011

White, Wilbert I. [BSc/38] Dec. 7, 2011

1940-49

Belyea, Harry M. [CA/48] Dec. 12, 2011

Blaich, Oswald P. [BSA/46] Nov. 29, 2011

Breyfogle, Warren G. [DipAgric/47] Dec. 2, 2011

Butler (Slavin), Rosemary Margaret [BA/49] Sept. 11, 2010

Calder, John H. [DipAgric/41] Jan. 6, 2012

Dahl (Sissons), Dorothy [BScHEc/49] Oct. 7, 2011

Davidson, Douglas G. [BSA/46] Nov. 5, 2011

Dickson, D. Barry [DipAgric/48] Dec. 8, 2011

Dirks, Dr. Victor A. [BSA/43, MSc/45] Dec. 8, 2011

Duerksen, John [BSc(CE)/49] Dec. 9, 2011

Edie, Norman B. [DipAgric/45] Nov. 1, 2011

Elias, John J. [BSA/40] Oct. 10, 2011

Gage, Dorothy G. [BScHEc/41] Sept. 30, 2011

Hill (Hartwell), Joyce Allison [BA/48, DipEd/49] Oct. 26, 2011

Kosasky, Dr. Harold Jack [BA/48, MD/53] Sept. 26, 2011

Labossiere, Sylvio [BA(LatPh)/43] Dec. 13, 2011

Lamont, Mary L. [BScHEc/45, BA/48, LLB/77] Oct. 24, 2011

Laskin, Adele [BSc/43] Nov. 7, 2011

Malcolmson, G. Herb S. [BSA/40] Oct. 11, 2011

Nicholson, Shirley [BA/43] Sept. 9, 2011

Paterson, Joy M. [BScHEc/45] Nov. 14, 2011

Richardson, Alvin E. [BSA/49] Nov. 17, 2011

Shemilt, Leslie W. [MSc/46] Dec. 20, 2011

Spack, Michael [BA/48, DipEd/49, BEd/58, MEd/62] Dec. 16, 2011

Stevens, David C. [BArch/44] Jan. 1, 2012

1950-59

Arnason, J. Garth [BComm/58] Jan. 5, 2012

Baragar, Harold A. (Harry) [BSc(CE)/50] Nov. 25, 2011

Bednard, Dr. Dorothy E

[BSc(Hons)/54, MD/61] Dec. 26, 2011

Bennett (Kavanagh), Mary J. [BA/52, BSW/55] Dec. 25, 2011

Bergman, Pastor Wallace M. [BA/55] Dec. 26, 2011

Bockstael, Joseph G. [BSc(CE)/53] Dec. 7, 2011

Brodeur, Sr. Therese M. [BA/50] Sept. 30, 2011

Brown, Alice E. [BA/52, BPed/55, BEd/55] Sept. 14, 2011

Burke, Ben T. [CA/53] Sept. 21, 2011

Colburn, Dr. Harold N. [MD/51] Oct. 5, 2011

Dunlop, T. R. W. [DipAgric/54] Sept. 21, 2011

Erb, Donald R. [BArch/59] Sept. 12, 2011

Gould, Norman S. [BSc(Pharm)/54] Oct. 20, 2011

Grabowecky (Josephs), Evelyn M. [BA/53] Nov. 22, 2011

Greenfield, Patricia [BA/50] Sept. 29, 2011

Houlding (Bergen), Hildegarde [BA/55, BSW/56, MSW/70] Jan. 1, 2012

Hykaway (Quirk), Mabel

[CertNurs(PH)/57, BN/65] Oct. 7, 2011

Jansen, Gerald [BSc(ME)/55] Sept. 17, 2011

Jardine, Donald Edwin [BSc(Hons)/51, MSc/67] Oct. 11, 2011

Johnston, Bruce G. [LLB/54] Oct. 8, 2011

Joseph, Sr. Andre [BEd/53] Nov. 25, 2011

Kiedyk, Michael David [Assoc Ed/57, BEd/75] Nov. 15, 2011

Kimelman, Harvey H. [BSc(Pharm)/51] Sept. 18, 2011

Lindgaard, Julia [BID/52] Jan. 2012

Mattick, Alexander Kitchener [BSc(CE)/51] Sept. 11, 2011

McInnis, Thomas G. [DipAgric/53] Dec. 11, 2011

McQuitty, George A. [BSc(CE)/51] Oct. 15, 2011

Menzies, Thomas V. [BSc(Pharm)/52] Oct. 17, 2011

Montgomery, Patricia J. [BA/53] Oct. 27, 2011

Morrison (Stephenson), Joan L. [BA/51] Dec. 27, 2011

Nattress, I. Allan [BSc(EE)/56] Nov. 5, 2011

Nelko, Ernest [BSc(Pharm)/51] Oct. 24, 2011

Olynyk, Michael L. [BSc(ME)/55] Sept. 27, 2011

Rasmussen, Ralph C. [BSA/52] Jan. 3, 2012

Sparling, Arthur B. [BSc(CE)/53] Oct. 30, 2011

Stevenson, Robert W. (Bill) [BArch/59] Jan. 14, 2011

Strath (Thomson), Jean [BScHEc/51] Nov. 20, 2011

Titchkosky, Clarence [DipAgric/50] Dec. 5, 2011

West, Gregory P. [BArch/55] Sept. 30, 2011

Wiebe (Francis), Shirley [DipID/50] Oct. 11, 2011

Williams, Dr. Gethchel Dewitt [MD/50] Nov. 23, 2011

1960-69

Bent, C. Edward [BA/67, MA/76] Nov. 11, 2011

Byrne, A. Michael [BA/61, BA(Hons)/63] Jan. 2012

Caligiuri, Ninette [Cert Ed/69] June 23, 2010

Coodin, Morley [BSc(EE)/61] Oct. 26, 2011

Dube, Patricia C. [BA(LatPh)/67, Cert Ed/68] Nov. 10, 2011

Dyker (Robinson), Edith J. [BPed/63, BA/69, BEd/69, MEd/71] Oct. 21, 2011

Finger, Margaret Mary [BN/66] Nov. 7, 2011

Forman, Barry W. [Cert Ed/65] Nov. 17, 2011

Goerz, Dr. Dietmar H. [DMD/62] Sept. 26, 2011

Jackson, Lloyd C. [BA/60, BEd/62] Nov. 22, 2011

Kiazyk (Gauthier), Rachelle D. [BA/66, Cert Ed/67] Sept. 30, 2011

Konzelman, Dr. Richard G. [DMD/65] Nov. 5, 2011

Krull, Anna [BA/60, MA/62] Oct. 25, 2011

Madden, John G. [BSc/67] Oct. 14, 2011

McLoughlin, Brian William [CA/61]

Oct. 23, 2011

Morris, William Burton [BA/60, Cert Ed/63, BEd/67, MEd/77] Oct. 3, 2011

Olchowecki, Peter J. [BPed(Hons)/60, BSc/62, BEd/62] Dec. 16, 2011

Paige, Thomas Stephen [BSc(EE)/69, MSc/71] Sept. 30, 2011

Peirson, Lillian J. [BHEc/67, Cert Ed/70, ExtEd/91] Dec. 3, 2011

Sinclair, Thomas F. [BSc/67, MSc/71] Sept. 10, 2011

Stevenson, A. Paul [BA/69, MA/71] Nov. 1, 2011

Ursell, Barry Alexander [BA/69] Nov. 30, 2011

Waters, Burton F. [DipAgric/60] Oct. 26, 2011

Waylett, Douglas C. [BSc(Hons)/61] Jan. 7, 2012

Wittenberg, Alfred [BSc(CE)/61] Nov. 23, 2011

1970-79

Bonk, Murray W. D. [BComm(Hons)/72] Sept. 6, 2011

Brown, John Louis $[\mathrm{BA/71},\,\mathrm{BEd/72}]$ Jan. 2012

Bukata (Walker), Dawn H.

[BEd/77, PB CertEd/91] Nov. 17, 2011

Bushby, Harry T. [BA/70, BEd/71] Nov. 2011

Christensen, Stephen Theodor [BA/77] Dec. 11, 2011

Claxton, Richard A. [BA/71, Cert Ed/74, BFA(Hons)/84] Sept. 13, 2011

Dereede (Stanley), Marcia [BA/74, BEd/75] Dec. 3, 2011

Drayson, Mildred Roberta [BPed/77] Nov. 18, 2011

Dyck, G. Graydon [BFA/71] Dec. 19, 2011

Esselmont, Laura V. [BN/71] Nov. 15, 2011

Friesen, Leslie W. [BComm(Hons)/76] Oct. 13, 2011

Friesen, Tena [BEd/70] Dec. 2, 2011

Harbicht, Jill A. [BSc/75] Sept. 23, 2011

Hartley, Joy H. [BSW/75] Dec. 3, 2011

Hilton, Charlotte A. [BSc/76, LLB/00] Nov. 8, 2011

Klymasz, Shirley Zenonia [Cert Ed/78] Oct. 6, 2011

Kraemer, Gordon P. M. [BA/72, MBA/75] Sept. 30, 2011

Leclair, Ronald Joseph [Bes A/74] Dec. 28, 2011

Lichtman, Edward L. [BA/71, CA/81] Dec. 31, 2011

Marciski, Marjorie Alice [BA/77, BEd/77] Nov. 8, 2011

Maurice, Denise C. M. [BSA/78, MSc/85] Nov. 23, 2011

Puls, Bonnie Carol [Cert Ed/71] Oct. 18, 2011

Reimer, Eugene Louis [BSc(ME)/70, BSc(Hons)/76, MSc/77] Nov. 5, 2011

Robinson, Christopher V. [BSc(EE)/70] Oct. 16, 2011

Roziere, Eva Hazel [BPed/75] Jan. 6, 2012

Silvanovich, Dr. Mikola P. [BSc/70, MSc/73, PhD/77] Oct. 4, 2011

Slater, Carole A. [BSA/73] Nov. 17, 2011

Speer (Thiessen), Colleen R. [Assoc Ed/73] Nov. 25, 2011

Tetreault, Raymonde Rolande [BPed/75] Nov. 26, 2011

Walker, Peter Oliver [BA(Hons)/79, BEd/80] Nov. 5, 2011

Wiswell, Eleanor D. [BFA(Art History)/79] Dec. 20, 2011

Yakimischak, Lyna Tillie [BEd/77] Nov. 2009

1980-89

Baron, Ronald Lynn [BSW/81] Oct. 3, 2011 Benell, David Ward [BA/83, MSc/89] Oct. 14, 2011

Claxon, Richard (Rich) A. [BFA(Hons)/84] Sept. 13, 2011

Dobberstein (Wrigley), Cheryl Elaine [BEd/85] Oct. 7, 2011

Futz, Douglas N. [BComm(Hons)/83, MSc/89] Nov. 20, 2011

Jasson (Kempa), Judy L. [BComm(Hons)/82] Jan. 6, 2012

Kiz (Fiorentino), Franca [BA/87] Dec. 15, 2011

Luit, Bert L. [BA/80] Jan. 2012

Novek, Regina Evelyn [LLB/80] Oct. 29, 2011

Penner, Laura Rachelle [Bes A/88] Dec. 22, 2011

Riediger, Cheryl Leigh Anastasia [BFA/80, Cert Ed/81] Nov. 10, 2011

Ross, Kathleen Jean [MA/87] Oct. 10, 2011

Shenkarow, Phyllis Susan [BA/80] Oct. 24, 2011

Smith, Gregory Lawrence [DipAgric/81] Oct. 7, 2011

Touchette (Gautron), Simone Marie Corinne [Ben Ed/81] Nov. 25, 2011

Wright, Dorothy Julia [BA/88] Sept. 23, 2011

1990-99

Chernetz, David Gordon [BSc(IE)/93] Dec. 15, 2011

Cogan-Gall, Sherri L. [BMR PT/90] Sept. 15, 2011

Cross, Lysander Neil [BCSc(Hons)/93] Dec. 12, 2011

Debrecen, David John Sinnock [BEd/92] Dec. 28, 2011

Dyck, Judith [MEd/96] Nov. 18, 2011

Koch (Rosales), Aileen [BSc(IE)/94] Sept. 11, 2011

Manegre, Raymond Lucien Joseph [CertPB Ed/95] Nov. 14, 2011

Rees, Trevor Walter [ExtEd/97] Dec. 17, 2011

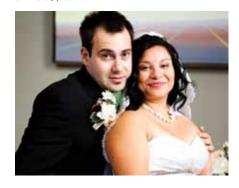
Thevenot-Allec, Theresa [ExtEd/90] Dec. 12, 2011

Marriages and Births

McQuaker, John [BA/70] married Literary Agent Beverley Slopen in Toronto on March 19, 2011, and retired from the CBC on March 31, 2011.

Gunasekaran, Sathya [MSc/2006] and Umashankar are happy to announce the arrival of their daughter, Anu, on July 11, 2011.

Szulc, Arthur [BSc./08, MOT/11] and Szulc, Astrid (Monge) [BA/07], pictured below, married on Nov. 5, 2011.



Wab Kinew continued from page 16 -

Along with these unfathomable injustices, the series also explores intentions and effect of the Indian Act and implications of land treaties as well as many successes experienced by Aboriginal individuals and communities across the country. As host, Kinew showcases an Aboriginal daycare in Val d'Or, Que, where non-Indigenous parents eagerly sign up their children. He also introduces viewers to a number of successful Indigenous artists and professionals choosing to give back to their communities.

Kinew believes that giving back is an essential part of staying connected and grounded in Aboriginal culture. True to his word, he recently launched a children's Ojibway immersion language class at the University of Winnipeg.

"I hope non-natives recognize we have a shared destiny," says Kinew. "It's important that we fix things not only in places like Attawapiskat (an impoverished First Nation community in northern Ontario) but also in urban centres. Aboriginal people are Aboriginal people. We're never going to give that up. The sooner other Canadians realize we are always going to be who we are, the sooner we can have a real reconciliation and a truly new relationship."

Kilimanjaro continued from page 22 —

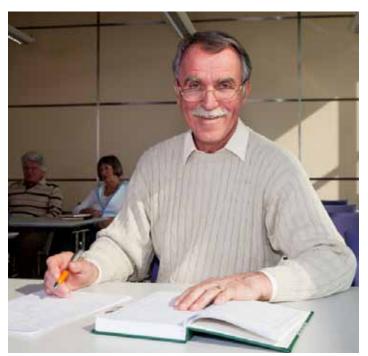
At the summit, the team found the air too thin to jump for joy, and enjoyed photography and more sedate expressions of emotion instead. Lowery took some time aside. She had brought shells from her cabin on Galiano Island, B.C., each one inscribed and painted to represent sponsors or the people for whom she was climbing. Away from the excitement, she mused over each shell and laid it down "that much closer to the heavens."

Her thoughts at the time? "It was an acknowledgement of the work my siblings and cousins had done in caring for my mother and aunts who had Alzheimer's," she says. "This trek was something tangible I could do to raise money for the Alzheimer's Society of B.C., to continue its support, education and research."

Back at the Marangu Lodge, the team presented Lowery with the Society's hand-carved walking stick for being the top fundraiser (\$16,300), an honour that reduced her to tears and gratitude. The stick now has pride of place in the main hallway of her house.

Still in fundraising mode for the Society, Lowery is arranging for the public who climb "the Grouse Grind" trail on Vancouver's Grouse Mountain in September to meet members of past ascent teams and watch videos of that "grind."

In Hemingway's story, the dying Harry realizes that he has accomplished much and written little. Marian Lowery has accomplished just as much, is spreading the word about Alzheimer's and came home to tell the tale. Maybe it's something to do with the thin air...



LIFELONG LEARNING at the University of Manitoba provides older adults with educational opportunities to expand personal knowledge in a relaxed learning

environment. This includes courses presented by award-winning instructors, topical sessions, and events of personal interest, like one-day learning excursions in Manitoba offered through the Curiosity Series, a partnership between Lifelong Learning and Creative Retirement Manitoba. For more information on the latest educational opportunities, news, and upcoming events at the U of M and in the community, visit umanitoba.ca/extended/life.

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