First domino falls into place

Construction on Project Domino, the largest and most ambitious redevelopment project in the University of Manitoba’s 133-year history, officially began April 26 at the ground-breaking ceremony for a new student residence building.

The new 360-bed residence to be built on the south side of campus is the first of several buildings to be constructed or rejuvenated under Project Domino.

Manitoba Premier Greg Selinger, the Honourable Diane McLeod, Minister of Advanced Education for Manitoba and Ken McCrea, President and CEO of Wawanesa Mutual Insurance joined U of M President Dr. David Barnard and other distinguished guests for the event wherein a $400,000 gift from Wawanesa Mutual Insurance Company was announced. To signify the start of the project, participants set in motion a set of 6-foot high dominoes.

“What an exciting day as Project Domino breaks ground,” said Premier Greg Selinger. “Our government is pleased to support this historic investment for the University of Manitoba that will provide more affordable on-campus student housing and bring a variety of campus upgrades that will retrofit buildings on the Fort Garry campus to 21st century standards and rejuvenate the campus as a whole.”

Project Domino earns its name from the game where one domino’s momentum pushes the next one forward. Project Domino — a multi-year and multi-million dollar plan to retrofit buildings for 21st century forward. Project Domino — a multi-year and multi-

Premier Greg Selinger and new student residence architect Ray Wan at the recent Project Domino announcement hosted by President David Barnard.

Wawanesa has donated $400,000 and the Province of Manitoba has invested $47 million into Project Domino, helping 13 units and faculties benefit from this major redevelopment.

‘Energy and pride, commitment’ radiate

Extended Education Open House at Downtown Aboriginal Education Centre

BEYOND MOORE

Over 400 students are enrolled in programs offered by Extended Education at the Centre. The two largest programs are Aboriginal Focus Programs (offering certificate, diploma and transition programs) and an English as an Additional Language Program for Newcomers. The latter is a new program sponsored by Manitoba Labour and Immigration under the Manitoba Immigrant Integration Program, in which 200 new adult Canadians master the English language skills and cultural knowledge to make a successful transition to life in Manitoba.

“It is,” a student in the crowd shouted. Eta Harbo, a third-year English as an Additional Language student from Ethiopia, said people are always in a great mood when they come to this centre.

“I get excited to come here because there are so many different cultures and colours here. It’s so multicultural.”

The students here seem to exude a pride, the sort of pride one acquires after achieving a goal. “That energy and pride is present here every day. Our adult learners are truly committed to their education, and our staff is committed to them. That commitment just vibrates through the facility. There is no cynicism, there is no inertia,” Lori Wallace, Dean of Extended Education, said.

“These students know that education is a key to achieving their life goals. Managing family and job responsibilities while studying becomes just part of life while studying becomes just part of life while studying becomes just part of life while studying becomes just part of life while studying becomes just part of life.”

In the afternoon, over 125 participants attended the Aboriginal Focus Program’s most recent Indigenous Knowledge Seminar, led by Justice Sinclair, entitled “Is there a Traditional Perspective of Truth and Reconciliation?”
**A million views and counting**

U of M YouTube channel expands content

At more than a million total views, the University of Manitoba’s YouTube channel has become one of the university’s most successful social media initiatives.

The channel currently contains about 60 videos with more added each month. Video content is as varied as the university itself.

Also notable is the expanded thematic content of the videos, found in the form of YouTube playlists.

The popular Campus Files, a light-hearted web series that looks beyond the front page of university news and explores the charming lesser-known stories that make the university unique, just posted its 11th episode and was recently recognized by peers in the form of a CASE (Council for the Advancement and Support of Education) Award.

Additionally, a ‘3-Minute Expert’ category has been added to the channel, with researchers taking a few minutes to comment on everything from the iPad touch interface, to how to sing opera, to food safety.

Check out these links:
- UManitoba YouTube Channel: http://youtube.com/umanitoba

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**In the News**

A Mammoth Study

May 3, 2010


In the breakthrough experiment headed by biologistKevin Campbell, he and his colleagues "resurrected" woolly mammoth hemoglobin to determine how adaptations in the blood protein helped the species survive in Arctic and sub-Arctic habitats. Their results are published in Nature Genetics. The researchers extracted DNA from the remains of three woolly mammoths that lived in Siberia between 25,000 and 30,000 years ago and found that Mammoths possessed a genetic adaptation to their haemoglobin, allowing it to release oxygen into the body even at low temperatures - something generally inhibited by the cold.

Neither Cause Nor Effect

May 1, 2010

Winnipeg Free Press, Calgary Herald, Edmonton Journal, Toronto Sun, Ottawa Citizen, Vancouver Sun, Times Colonist (Victoria), CNS Regional News, The Daily News (Kanaimo)

A University of Manitoba study found depression and substance abuse plague about half of American women who reported having an abortion, the study was recently published in the Canadian Journal of Psychology. It’s authors - Natlie Mota, Margaret Burnett, and Jitinder Sareen - found that abortion was associated with mood disorders, anxiety disorders, substance abuse and suicide attempts. “You absolutely cannot say from this data that an abortion causes mental illness. There’s an association present, but whether the mental illness comes before or after needs to be further examined,” said Natalie Mota, a U of M graduate student and the study’s primary author.

A Floppy Mess

April 30, 2010

Montreal Gazette, Alaska Highway News, Vancouver Sun, Ottawa Citizen, Calgary Herald, Carnewt News Service

Geologist Jim Teller has published in Science his newest findings on a flash flood that occurred 9,300 years ago. It was triggered by the collapse of a natural dam that drained a super-sized, glacial Lake Superior by 45 metres.

"Of fruit flies and windmills,"

Headlines:

anthropologist who has studied online dating. “I would say that it’s been in revolutionized the way people find and pursue potential mates. “It does social event. The survey found that 17 percent of those who married in the Anthropology’s Susan Frohlick shared insights into a new study conducted in

Romancing the Web

April 25, 2010

The Washington Post

Anthropology’s Susan Frohlick shared insights into a new study conducted by Match.com. The study found that more than twice as many couples who married last year met through online dating services than at a club or social event. The survey found that 17 percent of those who married in the past three years met online, making it the third-most-frequent method of introduction, behind meeting through a mutual acquaintance or at work or school. Online dating – in existence for less than two decades – has revolutionized the way people find and pursue potential mates. "It does seem to have displaced all other forms of dating," says Kohli, a cultural anthropologist who has studied online dating. "I would say that it’s been in the last five years that it’s become hyper-mainstream."

Headlines:

“Of fruit flies and windmills,” Winnipeg Free Press, April 26, 2010, story about about the Winnipeg team at the Manitoba Schools Science Symposium used the “brains and equipment” from the U of M to solve a problem surrounding windmill noise.

“Geothermal ice production may help allying arenas,” Winnipeg Free Press, April 29, 2010, story about allying arenas owned by the city; Asper School professor Paul Larson shares insights into the economic needs of repaired.

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**Open letter from the Dean of Engineering**

Over the past several weeks, the student publication The Red Lion, in particular its annual joke edition The Red Loin, has become the centre of much scrutiny and criticism. There has been much debate over sexism, freedom of student expression, and the climate for women in our Faculty of Engineering and the engineering profession as a whole. As the Dean of the Faculty of Engineering at the University of Manitoba, and a graduate from this Faculty, I feel it is my responsibility to respond to the concerns that have been brought to my attention.

As many other student publications in many other faculties and universities across North America, Europe and the world, The Red Lion has been known to push the boundaries of what is considered acceptable or even good taste. The Red Lion (and its predecessors) have been a part of student life in the Faculty of Engineering for decades, but even the most beloved traditions must be scrutinized to ensure they still reflect the sensibilities and beliefs of all of our students. It does, after all, represent our place in the larger academic community, and when actions of my students lead to criticism, I ensure that both the critic and the students are given a voice and a hearing.

Furthermore, I consider such instances as learning experiences. While some of the media coverage that was not balanced, the student editors and I have heard the concerns raised over the content of The Red Lion, and I want to assure you that we are taking those concerns seriously. Meetings have already taken place and more are planned between the students and a representative from Equity Services on campus, as well as with leaders of the engineering profession, and I believe the students understand their responsibilities with respect to the University of Manitoba’s Respectful Work and Learning Environment Policy and the Faculty of Engineering’s standard of professionalism. The Faculty of Engineering takes very seriously the challenge of attracting more female students, and all under-represented groups, which is why we are actively and successfully involved in programs such as WISE (Women in Science & Engineering), ENGAP (Engineering Access Program), and IEEQ (International Education Qualification Program).

Does more need to be done to address concerns about women in engineering? Absolutely! This is a subject worth much research. We would welcome the opportunity to work together with other groups on campus that are more qualified in areas of gender and social issues to develop solutions in addressing the issue.

Douglas W Ruth, PEng, President and Dean, Faculty of Engineering
The internationalization of education
Presentations demonstrate wider impact of EU education reform

BY JACQUIE DUHARD AND RHONDA FRIESEN
For The Bulletin

10 years ago the European Union (EU) began the Bologna Process as a way to improve quality, comparative advantage of their higher education institutions in a global knowledge based economy. To reflect on the challenges and opportunities that this process represents for North American universities, the University of Manitoba President Dr. David Barnard and the Office of International Relations invited two prominent European speakers in the field of international education to the University of Manitoba. On April 28 Bernd Wächter and Hans de Wit engaged U of M faculty, staff and students in a discussion about the changes to higher education in Europe and its implications.

Internationalization of higher education in the EU has become a foundational principle for institutional advancement. Both competitive and cooperative influences are motivating EU institutions to harmonize degree structures, quality assurance measures, research objectives and educational programs. Serious challenges remain, however, such as improving access to education, fostering dialogue on diversity, maintaining academic freedom and creating sustainable financing structures. The movement has been received with both praise and protest in the EU and beyond.

As the University of Manitoba contemplates its own internationalization strategy, the depth and breadth of educational reform in the EU, along with the attention that the Bologna Process has garnered around the world, presents a tremendous challenge for the U of M. Both Wächter and de Wit emphasized the value of cooperation and interconnectivity, as well as the inevitable change they bring.

Connectivity was an important feature of this event. When Wächter was unexpectedly prevented from attending the event in person, he was able to participate actively in discussion from Brussels, Belgium via video conference. Twitter was used to feed event notes live and around the world to promote dialogue from the audience and others through the twitter hashtag #ueimp. The event was also recorded and will be available as a podcast through the Office of International Relations webpage and the University of Manitoba’s iTunes channel.

Students come together for 10 days to discuss global citizenship

BY MICHAEL MARSHALL
The Bulletin

14 international and 28 Canadian students have begun a 10-day exploration of student leadership, international development and global citizenship in a unique and ambitious cross-cultural event organized by the U of M’s International Centre for Students and the World W.I.S.E. Resource Centre.

Called the Summer Institute for Student Leadership and Global Citizenship, the event allows student participants to share their own experiences and knowledge, learn about international development, and to foster networks and inspire each other to facilitate action for development.

The Summer Institute for Student Leadership and Global Citizenship will provide students with a 10-day international experience without leaving home. The 42 students from the faculties of Architecture, School of Art, Music, Engineering, the School of Business, Law, Human Ecology, Social Work, Kinéologie and recreation Management, Arts, Science and Agriculture will live in Arthur Mauro Residence for the duration of the Institute.

On April 30, Ryan Hreljac, the popular young activist who has been featured on high-profile programs such as the Oprah Winfrey Show and CNN spoke to a group of about 100 people as part of the course. Hreljac made headlines when he became one of the world’s youngest activists. At six years of age, he learned from a teacher that there were people in the world without access to clean water. The boy decided to make a difference and raised $70 in a four-month period by doing chores. By the following year his efforts helped build a well in a small village in Northern Uganda. Hreljac, now 18, went on raise millions of dollars; his foundation has funded 546 water and sanitation projects in 16 countries.

The Summer Institute will also showcase other prominent guest speakers, including Japhet Emmanuel, author, development practitioner and CBC award-winning journalist and correspondent Nahlah Ayed.

The President and the Poet

"A breathing memory behind the gossamer wall … is a line from one of Micheal O’Siadhail’s poems that exemplifies the poet’s voice, which has been called "tender, vulnerable and defiant," with a kind of "courtesy towards existence." In the range of his themes O’Siadhail illustrates the breadth of modern Irish poetry.

Micheal O’Siadhail has published 12 collections of poetry and was awarded an Irish American Cultural Institute prize for poetry in 1982 and in 1998 the Marten Toonder Prize for Literature. Commissioned poem suites by O’Siadhail have been set to music for performance and broadcasting and several books have been translated to Japanese and German.


Among O’Siadhail’s many academic works are Learning Irish and Modern Irish. A former member of The Arts Council of the Republic of Ireland, he was the founding chairman of Ireland Literature Exchange. He has been a lecturer at Trinity College Dublin and a professor at the Dublin Institute for Advanced Studies.

Micheal O’Siadhail will meet with Dr. David Barnard, President and Vice-Chancellor; for an evening of poetry reading, dialogue and book signing on Tuesday, May 18 at 7:00 p.m. in Marshall McNair Hall at the University of Manitoba. All are invited to attend; a reception follows.

Viewpoint
Motorcycles on Campus: Curse or Blessing?

BY DANIEL CARD

It is my opinion that opportunities are being missed to free up parking spaces, and reduce the environmental impact of automobile traffic to campus. While much is being done to encourage the use of bicycles by staff and students, very little provision is made for motorcycles and scooters which provide many of the same benefits.

Although the University does provide two parking areas for 2 wheeled motorized vehicles, both are out of the way and vulnerable to theft and vandalism. It appears as though some attempt has been made to “hide” these vehicles behind buildings. This approach, along with an $80 parking fee discourages their use, particularly when staff or students have already paid to park a car or truck. One would hope that the lower environmental impact of these vehicles, plus their significantly smaller parking footprint, would argue in favour of a preferential treatment. Finally, those of us who are unable to commute by bicycle, should be encouraged to contribute to the above benefits by substituting two wheels for four whenever possible.

Now, if I were U of M’s parking czar, I would do the following. I would provide more “up front” secure parking spaces for 2 wheeled motor vehicles. I would provide a free permit for them to anyone who had already paid for a regular parking spot and a greatly discounted pass to others, one that recognized the fact that two-wheeled motor vehicles do not require regular parking spaces, cannot be used every day and are better for the environment.

U of M staff, faculty and students watch Bernd Wächter’s presentation via Skype on the changes to higher education in Europe and its implications.

"It is being done to encourage the use of bicycles by staff and students. It will allow both praise and protest in the EU and beyond.

Students come together for 10 days to discuss global citizenship.

Photo by Chris Reid

Ryan Hreljac, one of the world’s youngest student activists, speaks to U of M class.

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Students come together for 10 days to discuss global citizenship.

Photo by Chris Reid

Ryan Hreljac, one of the world’s youngest student activists, speaks to U of M class.
Two recent books from University of Manitoba Press have been awarded top prizes at the Manitoba Book Awards. The awards were handed out at a gala mounted by Manitoba Writers’ Guild and the Association of Manitoba Book Publishers on Sunday, April 25.

Prairie Metropolis: New Essays on Winnipeg Social History, edited by U of M history prof. History and Gerald Friesen, distinguished professor, History, won the Carol Shields Winnipeg Book Award. The collection contains essays by 11 of graduate students, including former U of M editor Dale Barbour, Prairie Metropolis has claimed another prize nomination in the “Local History” category of the Margaret McWilliams Awards presented annually by The Manitoba Historical Society.

Nominated for the Alexander Kennedy Isbister Award (for non-fiction) was another entry edited by Gerald Friesen, with Royden Loewen, ethnic diversity. The book, Ethnic Diversity in Twentieth-Century Canada. All our Changes: Images from the Sixties Generation by Gerry Kopelow won theelifestile of the Year Award, and was also nominated for the Harry S. B严重Best Book by a Manitoba Publisher. Photographer Gerry Kopylowski captured a slice of age in the late sixties; at 18, with camera in hand, he hit the road on a cross-country journey that took him from Winnipeg to Toronto and Ottawa. All Our Changes chronicles that journey and the shared experiences of the generation. The book is a stunning collection of 160 black and white photographs taken between 1966 and 1975, which capture the innocence and earnestness of the early Canadian hippie movement from political protests and speakers’ corners, to Festival Express and the Manisas Folk Festival.

Dead on Arrival: Faculty of Architecture, University of Manitoba Journaled June 2009 edited by Eduardo Aquino, received a honourable mention. The Journal of Architecture published by Do a Press won the Manitoba Dias Book Design of the Year Award. The journal documents research taking place in the faculty and work by other researchers who have lectured there.

The lively book Mama Dada: Songs of the Barone’s Dog poet Jan Horner, librarian and acting associate director (Collections), won the Aqua Lansdowne Prize for Poetry (Prix Lansdowne de poésie). The book’s subject Barone Elie van Freytag Loringhoven was known as the “first American Dada” for her embrace of the radical underbelly of society. Horner’s sharp and elegant poems reveal Else’s character and her rough and extravagant life. In poems that are sardonic yet lyrical and twisted yet sublime, the voices of Elie and her friends and suitors are heard — her poet husband, Frederick Philip Grove to her dog, Pinky. The book was also nominated for the McNally Robinson Book of the Year award.

English, was nominated for two awards including the McNally-Robinson Book of the Year and the Margaret Laurence Award for Fiction for his fantastical and poignantly written Smoke and Mirrors.

Writer and U of M student John Toone was nominated in several categories, including the Aqua Books Lansdowne Prize for Poetry and Eileen McTavish Sykes Award for Best First Book (for his Book from Out of Nowhere); the poet was also a contender in the Most Promising Manitoba Writer award.

My Winnipeg by Distinguished Filmmaker in Residence Guy Maddin was nominated for the McNally Robinson Book of the Year award. These are wins and the nominations and congratulations are well warranted! On behalf the entire student body, thank you for the passion you put into your work, and for everything you do for the campus that creates the best place to learn and grow.

Have a great summer and when you have a moment, help me welcome the incoming UMSU Executive.

Sincerely, Sid Radhik, Outgoing President, UMSU Executive.
Business school maintains world-record pace

BY SEAN MOORE  The Bulletin

The recent sweep of a business competition by the Asper School of Business has resulted in a world-record 46-first-place finishes since 1995.

On April 23 and 24, AZK Technologies, the team comprised of MBA candidate Andrea Legarda and Asper student Curtis Leonardt, competed against 16 teams in the inaugural Alerus Entrepreneurship Challenge hosted by University of North Dakota. The team won all of the competition’s awards: Most Innovative Idea, Best Elevator Pitch and Grand Champion.

AZK’s success has earned it a berth in the world championships, Global MOOTCorp., held in Austin, Texas, from May 5 to 9. This marks the eighth consecutive year the University of Manitoba has won a berth. The Asper School is the only Canadian school, and one of only one handful in the world, to accomplish this.

AZK Technologies team display spoils of latest world-record win.

The team also includes Arachna Jivanuwong and Katherine O’Rourke who were absent in Grand Forks. They were, however, present when AZK won the Lighting Round at the University of Oregon’s New Venture Championship in early April. Earlier this spring, AZK also won the Georgia Bowl in Atlanta. AZK proposes to license a non-invasive colorectal screening tool from the National Research Council and complete the product development necessary to bring it to market. Their lead product, Colospec, is much more accurate than current methods in identifying patients with colorectal cancer.

“Andrea and the AZK team are a great example of the skills and abilities of students at the Asper School,” Rob Warren, I.H. Asper executive director for entrepreneurship at the Stu Clark Centre for Entrepreneurship, says. “They’ve taken research done in Winnipeg and combined it with an experienced group of advisors to develop a proposed venture that could generate millions in revenues and result in the creation of high paying jobs in Winnipeg.”

Unique all-female U of M opera tours Manitoba

BY SEAN MOORE  The Bulletin

An all-female cast of eight began touring southern Manitoba on May 3, performing an opera for elementary school students in an effort to entertain and enlighten children.

Since 2005 students in the Marcel A. Desautels Faculty of Music opera studies program have participated in the annual opera school tour. Though males are usually involved as well, this year’s opera was written for an all-female cast. The stage director and the school’s Opera Studies Coordinator Katherine Twaddle worked as librettist with Toronto musician Dean Burry, who composed the music.

“We have never done an all-female opera before and it’s rare because opera is such an old art form it’s usually male-dominated and there aren’t a lot of roles for women compared to men,” Twaddle said.

The 42-minute show called Angela and Her Sisters is based on old Italian folktales with flavours of Cinderella and Snow White. The plot, in short, centers on Angela’s desperate search for a sister and at one point even the moon tries to fulfill that role.

“The children love it because they haven’t been told that opera isn’t cool; there’s this misconception that opera isn’t cool so it’s nice to get in and show them what opera is before they’re told what it is or isn’t.” Twaddle said.

Unique all-female U of M opera tours Manitoba

Photo by Chris Reid

Resource Optimization Phase Two
Team Member Profile

The University of Manitoba has undertaken two resource optimization projects (entitled ROSE and OAsO), aimed at finding ways to improve service, reduce costs, eliminate duplication, share resources, leverage technology and apply best practices. In the coming months, the Bulletin will feature interviews with faculty and support staff involved with the projects.

Jeff Adams, Director of Student Recruitment

What is your role on the Student Support Services work stream?

Alongside all members of the Student Recruitment team, I have been working closely with PricewaterhouseCoopers to map our current business processes.

Going forward into the next stages, we are looking forward to validating our current processes and developing our future state.

In your view, why is ROSE important?

There are a few reasons why I believe the ROSE Project is important.

First, given the current economic realities, in order to continue to operate in a financially responsible manner, we must find ways to allocate our financial resources in the most effective ways.

Second, if there are ways to operate more efficiently, while continuing to attract outstanding students and provide students with the best opportunities and experiences, then we should be open to considering options that emerge from ROSE.

What are some of specific activities undertaken within Student Support Services stream during this next phase of the project?

We have been extensively mapping our current business processes. We are looking forward to having other members of the University community examine our current processes before we move forward with the development of our future state.

I am excited for the next phase as it will allow us to examine our current processes and provide the opportunity to become even more effective unit.

If one of the key deliverables of ROSE is service enhancement, what does good service look like to you?

Good service is offering students an outstanding experience, right from the first point of contact thru to graduation.

In many instances, Student Recruitment is the first point of contact and we take a great deal of pride in ensuring that a student’s first impression of the University of Manitoba is a positive one.

From your perspective, what outcomes and benefits can the University community expect to see as a result of ROSE?

As a result of the ROSE Project, I believe we will emerge as a stronger community and operate in a more effective and efficient manner.

As well, we will be able to provide current and future students with an even better university experience. Whatever changes emerge, they will help us grow as an institution.

Unique all-female U of M opera tours Manitoba

Photo by Chris Reid

Advertise in the Bulletin
For details call 474 8111

MANITOBA CENTRE FOR NURSING & HEALTH RESEARCH

May 18, 2010
10:30 am
Room 370
Helen Glass Centre for Nursing, University of Manitoba
(Recipeption to follow in Room 202)

Dr. Helen P. Glass Researcher in Residence
Margarete Sandelowski PhD, RN, FAAN
Cary C. Boeslher Distinguished Professor
Faculty of Nursing
University of North Carolina at Chapel Hill

Teaching and Learning Methods
This presentation is focused on key issues in communicating and understanding qualitative research. Emphasis is placed on the problems of the qualitative/quantitative binary and of differentiating methods, and on varying approaches to teaching qualitative research.

May 19, 2010
5:00 pm Reception
6:00 pm Presentation
Concert Hall Room
The Fort Garry
222 Broadway
Winnipeg, MB

KeepSakes and Kodak Moments: Fetal Ultrasoundography as Cultural Instrument
Fetal ultrasonography is a technology that more than meets the eye. This presentation is focused on its power and paradoxes as a medical, parent-infant acquaintance, propaganda, entertainment, and marketing device.

ALL ARE WELCOME TO ATTEND
RSVP to the Manitoba Centre for Nursing & Health Research at 474-9080
Emily Dickinson said it in her 1775 poem: “To make a prairie it takes a clover and one bee;/ One clover, and a bee.” Unfortunately, however, the “every-alone” won’t do, Emily. “If bees are few.”

According to Rob Currie, professor of entomology, beekeeper and instructor of the beekeeping course offered to both U of M students for credit and to interested members of the community as a non-credit course, the bees are in trouble. Presently bees are the most important commercial pollinator of crops in the world because they are reliable and easily managed even in large numbers. Bees can pollinate a crop efficiently and in a very short time frame.

Unfortunately, our dependency on bees as pollinators renders us vulnerable. If the bees are in trouble, so are our crops. Presently bees are the most important commercial pollinator of crops in the world because they are reliable and easily managed even in large numbers. Bees can pollinate a crop efficiently and in a very short time frame.

If beekeeping seems like a distant possibility, another thing you can do is buy local honey to support the industry. With the threat to bee populations burgeoning, and because the price of honey is so low, many producers are giving up apiculture. “If people paid more for the product and the money went to producers rather than grocery stores, they could make money to hire more people and keep these colonies alive,” he maintains.

Currie is perfectly serious when he suggests beekeeping as a viable solution for impeding the advance of Colony Death, Colony Collapse or Colony Losses, as it’s variously named (formerly known in the U.S. as Colony Collapse Disorder). It has been devastating bee populations the world over. Originally thought to be the result of a single parasite, scientists have since found that multiple factors and multiple stressors are involved.

“The idea at the time was that this was a new, single pathogen resulting in high levels of mortality but it’s now recognized that’s not the case,” says Currie. “There are many factors combining. And the high levels of mortality are unfortunately continuing. We just got a report from the U.S. yesterday that levels were in the range of 35 to 38 per cent again, which is huge.”

Currie’s research has centred on new methods of battling the mite largely responsible for initiating the plight. Because it has become resistant to control measures, beekeepers are unable to keep levels low and the mite is causing other problems.

“It’s stressing the bees. The bee’s immune system is becoming weaker and as a result of that, it’s now susceptible to viruses and pathogens that probably wouldn’t have killed it in the past,” says Currie.

The Manitoba Medical Service Foundation and Manitoba Blue Cross are proud to celebrate the 2009 recipients of the research grants, fellowship, memorial and salary awards. Thank you for choosing to establish your research career in Manitoba.
The Bulletin

May 6, 2010

Page 7

surprising facts about bees

• There are many different kinds of bees, including the plentiful European honey bee popular for its prodigious honey production.

• Bees rely almost exclusively on nectar and pollen for their food sources, which they also feed to their young. That defines them as bees, in addition to anatomical characteristics.

• Most bees are social. Honey bees are eusocial, or “truly social” in that they need to be surrounded by others of their species.

• Bees normally aren’t very aggressive.

• Bees prefer sunny days… on cloudy, cold or otherwise inclement days, they stay inside the hive to conserve energy. It’s also risky to go out and forage; bees won’t collect pollen in cold conditions.

• Honey bees can’t maintain flight in cold weather because they are not able to generate enough heat in their thoraxes. A bubblebee can.

• The prairies probably is the best honey producing area in the world, in part because of the climate and crops such as canola, clover, alfalfa and sunflower.

• The long, hot sunny days of the prairies allow good conditions for colony buildup.

• Honey bee colonies have populations of 40,000 to 60,000 bees. Bubblebee populations are only about 200 to 300.

• Average honey bee production of honey in prairie region is about $30 to $80 lbs or more per hive. Other producers in the world produce about 40 to 60 lbs.

• A bubblebee colony would have stored in it the equivalent of about a couple of thimblefuls of honey.

• The flavour and aroma of honey is determined by the kind of flowers from which the bees collect nectar.

People, keep on moving

Bison Recreation Services will launch its 21st year of the Summer Active program. The popular program runs from May 31 to June 25 and offers 141 free sessions in belly dance, zumba, yoga, pilates, as well as lunch time boce ball, urban poling (norctic walking), knackers and wallaby, as part of the university’s commitment to promote employee physical activity and stress relief.

“Many corporations promote wellness, but just for one day,” explains Recreation Services Coordinator of Fitness and Lifestyle Services, Ulla Liljen. “We offer Summer Active because times are changing and employees want more than just a paycheck. Employers are starting to realize that healthy employees are a valuable asset and good for business. Our goal is to inspire employees to make a health a priority and to be active.”

The University of Manitoba Bison Recreation Services together with the Sneakers in Motion Day Committee also invite you and your colleagues to join in the Sneakers in Motion Day activities on Thursday, June 10 at noon, at both the Fort Garry and Bannatyne Campuses.

Summer Session begins

Summer Session courses are underway during campus construction this summer (Along with other construction projects on campus this summer, Pembina Hall Residence will be under construction; it is scheduled for completion by September 1, 2011. ART Lab is scheduled for completion by March 31, 2011.)

Summer Session allows high school students admitted to the University of Manitoba for Fall 2010 to begin their studies in Summer Session and get a head start on their studies. It runs from July 5 to August 6.

Summer Institutes combine multiple linked courses in an intense, integrated experience over several weeks. This year’s offerings include a new Cree Language and Narrative program, with courses cross-listed in two of the three faculties involved, namely Linguistics, Native Studies and English.

The Summer Institute called Evaluation, Human Rights, and Social Justice in a Multicultural Society is a six-credit hour course for students in Education and Arts, and also open to interested members of the community.

In July the Music for Children Level 3 is offered as an advanced study of the Orff method as it applies to Early and Middle Years schools, with emphasis on ensemble performance.

Storytelling for Peace and Human Rights with Jessica Senie, from the Mauro Centre for Peace and Justice, focuses on the role of storytelling in human rights work and for peace education and community-building.

Two other Education Summer Institutes Planning Good Futures and Voices from the Edge: Alternative and Ancillary Services for Students with Special Needs are planned for late August into fall. Voices from the Edge will provide a broad spectrum of special needs.

Finally, Health of Populations Evaluation is a partnership between the University of Manitoba and four community organizations and focuses on applied evaluation research. This Summer Institute provides two streams for participants to choose from, one related to HIV evaluation research and the other which focuses on Indigenous ways of knowing.

Summer Session runs various summer enrichment programs as well, with destinations to Baffin Island, Banff, China, Churchill and Clearwater (MB), Ethiopia, Ghana, Iceland, India, Italy, Kielce, Poland and Russia.

Other featured programs include Wetland Ecology at Delta Marsh Field Station, Ceramic Open Studios, The University of Manitoba Jazz Camp, Certificate in Teaching English as a Second Language and Music Educator Jazz Immersion. The Faculty of Music also offers several additional Summer Music Institutes.
Events Listing
University of Manitoba

Events
- The Bulletin publishes events involving the university community at no cost.
- The deadline for the May 20 Bulletin is May 12 at 4:30 p.m.
- E-mail events to bulletin@umanitoba.ca.

Fort Garry Campus

THURSDAY, MAY 6
18th annual Students' Teacher Recognition Reception presented by University Teaching Services, Killanney Room, 2nd Floor, University Centre 3:30 p.m. to 6:30 p.m., Thursday, May 6.

TUESDAY, MAY 11
The Institute for the Humanities through the Lesbian, Gay, Bisexual, Transgender, Two-Spirited and Queer (LGBTTQ) Archival and Oral History Initiative Public Talk, 'We are the girls of the pansy parade': Historicizing Winnipeg’s Queer Subcultures, 1933-1969 by Valerie Korinek, 409 Tier Building, 2:30 p.m. to 4:30 p.m., Tuesday, May 11.

THURSDAY, JUNE 10
Faculty of Nursing Seminar. Research Citation Analysis of Nursing Academics in Canadian Identifying Success Indicators and Honoring our Leaders by Tom Hack, Dauna Crooks, James Plohman and Emma Hill Kepron, 370 Helen Glass Centre, 12:00 p.m. to 2:00 p.m. Tuesday, May 10. To participate in this session via Telehealth and to register your site, please contact the Manitoba Centre for Nursing and Health Research at 474-9080 or nursing_research@umanitoba.ca

Bannatyne Campus

Medical rounds are typically targeted at university staff and professionals directly involved in the medical field.

THURSDAY, MAY 6
Pediatrics Departmental Council (in place of Grand Rounds), Theatre A, Basic Medical Science Building, Linked St. Boniface, NG002, 8:00 a.m., Thursday, May 6.

Pediatric Research Rounds, Rm 500, Boardroom, John Buhr Er Research Centre, 12:00 p.m., Thursday, May 6.

Department of Immunology Seminar. Immune cell migration in complex cellular environments by Francis Lin, Department of Physics and Astronomy, Faculty of Science, Alec Sehon Suite, 4th Fl., Apotex Centre, 12:00 p.m., Thursday, May 6.

FRIDAY, MAY 7
Pediatric Nephrology Rounds, TBA.

Tuesdays, May 10 & 17
Department of Immunology Annual Graduate Student Research Presentations. Anti-migratory Effects of Semaphorin 3E in Airway Smooth Muscle Cells by Hesamaldin Movassagh, and presentation TBA by Vidyanand Anaparti, Alec Sehon Suite, Rm 477, 4th Floor, Apotex Centre, 12:00 p.m., Thursday, May 13.

MONDAY, MAY 17
Department of Immunology Research in Progress. On the CD40 regulation of DC functions and beyond by San Kung, Alec Sehon Suite, 4th Floor, Apotex Centre, 12:00 p.m., Monday, May 17.

Academic Job Opportunities

A full listing of employment opportunities at the University of Manitoba can be found at umanitoba.ca. U of M encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. Please include the position number when applying for openings at the university.

FACULTY OF MEDICINE
School of Medical Rehabilitation
Department of Occupational Therapy
Position: Full-time tenure-track position at the rank of assistant professor, Department of Occupational Therapy, School of Medical Rehabilitation
Start date: January 01, 2011
Application Deadline: August 1, 2010
Position Number: 10766
For Information: Dr. Emily Etcheverry, Chair, Occupational Therapy Search Committee, School of Medical Rehabilitation, University of Manitoba, Rm 106 - 771 McDermot Avenue, Winnipeg, Manitoba R3E 0T6, email: etchev@cc.umanitoba.ca, phone: (204) 789-3418, fax: (204) 789-3927

EXTENDED EDUCATION
Aboriginal Focus Programs Area Position: Program Director at the rank of Instructor I or II
Start date: July 1, 2010
Application Deadline: June 7, 2010
Position Number: 11263
For Information: Dr. Kathleen Mathews, Associate Dean, Extended Education, The University of Manitoba, Winnipeg, Manitoba, R3T 2N2, tel (204) 474-8032. email: Mathesg@cc.umanitoba.ca

Farwell Receptions

Dr. Joanne C. Keselman, Vice-President (Academic) and Provost invites the colleagues of Dr. Richard Lobdell, Vice-Provost (Programs and Planning) and Dr. Dave Murphy, Vice-Provost (Student Affairs) to their farewell receptions:

Reception for Dr. Richard Lobdell: Reception for Dr. Dave Murphy:
Monday, June 14, 2010 Wednesday, June 16, 2010
3:00 p.m. to 5:00 p.m. 3:00 p.m. to 5:00 p.m.
RSVP to paula_chorney@umanitoba.ca prior to June 1, 2010. Monetary contributions toward their gifts may be forwarded to 208 Administration Building.
Simple solutions, innovative research
2nd annual Health Psychology Research Day

BY MARIANNE MAYS WEBE AND NORAH VINCENT
For The Bulletin
The Department of Clinical Health Psychology held its second-ever Health Psychology Research Day on April 30. The day was a celebration of the scholarly activities of faculty and residents and a way to increase awareness about the research capacity of clinical health psychologists.

Keynote speaker Patrick McGrath, psychologist, Canada Research Chair in Pediatric Pain and a professor at Dalhousie University, outlined innovative methods for service delivery for children and families. In his talk, he described reducing “medical phone coaching” and “smart websites.”

McGrath has built an international reputation for his groundbreaking work in the area of pain in young patients. He is a Canada Research Chair in Pediatric Pain at Dalhousie University and the IWK Health Centre, and has expanded the work of the Pediatric Pain Research Lab in areas such as delivery of care by distance treatment, the use of brain waves for pain measurement, and the measurement and control of pain in cognitively-impaired children and infants.

In an interview after his presentation, McGrath suggested that one of the primary concerns of his research and practice is “to make care more available to and suitable for families of [underage] patients.”

“Too often healthcare providers set the terms. Services need to be family- and patient-friendly rather than provider-oriented,” he said. “Too often care provided is based on what is easiest for the institution.”

For McGrath, the provider-centred model of healthcare, and of mental healthcare in particular, means that “people are often blamed for [their] children’s behavior.”

He notes that he himself used to feel impatient with his non-compliant patients, and that this attitude is part of the culture and bureaucracy of healthcare.

“We need to see families and patients as partners and valuable allies in making decisions about their health. They are not unskilled; they are capable people.”

After McGrath’s talk, the faculty held a rapid fire presentation during which selected staff made brief five-minute presentations on new and emerging research within their respective fields of expertise. The forum allowed researchers to share information in an open, informal setting that could lead to collaborative possibilities.

Craig Yury, an assistant professor at Brandon Regional Health Centre, presented a paper on disruptive behaviours of elderly patients in personal care home settings. His “simple plan” for non-contingent reinforcement of behaviours was based on a stimulus so uncomplicated it was almost amusing.

As an alternative to physical restraint or anti-psychotic medication for calming purposes, his suggested approach consisted of a minute of eye contact combined with a direct positive verbal statement to elderly patients by their caregivers, beginning in 20- to 30-minute intervals in the morning and tapering off through to early evening. The results collected so far in Yury’s study showed an immediate, dramatic drop in disruptive behaviours.

McGrath, whose own work features similar unsurprising and simple solutions that can make a big difference, called it “his tomb.” Many audience members concurred.

A poster session followed to display some of the research activities of staff and residents. Noteworthy was the trend to harness technology (e.g., computers, telehealth) to deliver evidence-based psychological treatments across a variety of problem areas and settings.

The event was organized by the co-chairs of the Clinical Health Psychology Research Committee (John Walker, professor, Clinical Health Psychology, Faculty of Medicine and director of the Anxiety Disorders Clinic at St. Boniface Hospital and Norah Vincent, an associate professor in the department who also works in Adult Outpatient Psychology at Health Sciences Centre).

Michael Teschuk, an associate professor and clinical psychologist who works with child psychotherapy at the Health Sciences Centre, commented that the event “very successfully highlighted the tremendous breadth of research interests and expertise within the Department of Clinical Health Psychology.”

Puzzle me this: 50-year-old book still selling strong

BY CHRIS RUTKOWSKI
The Bulletin
To some, it may be a puzzle as to why George Gratzer’s first book is in demand today, fifty years after it was first published. But he’s not that surprised.

“Mathematical puzzles are very enduring,” he explains. “They do not go out of style. People are just as challenged now as they were fifty years ago.”

Gratzer was born and educated in Hungary, moving to the United States in 1963 and then to Canada in 1966, where he has lived ever since. He joined the faculty of the University of Manitoba in 1969 and became editor-in-chief of Algebra Universalis, an international mathematics journal published in Basel devoted to universal algebra, lattice theory and related fields.

As a second-year undergraduate student in Budapest in 1959, Gratzer needed money and decided to write a book of mathematical puzzles for the educated layman and high school students. As an interested student he was already publishing his own research by that time.

The book, Elmentos egy esztergondor (Brian Twists for Youngsters), was a collection of 54 recreational mathematical puzzles, one set for every week of the year. It sold out in eight weeks in 1959.

“The puzzles make you think, and they get progressively more challenging throughout the course of the year,” Gratzer explains. “The solutions introduce you to some real mathematics.”

Gratzer comes by his writing and mathematical puzzles honestly. His father was the author of several puzzle books; his best known book, published the year Gratzer was born, has been reissued some 35 times.

In 2008, a Hungarian book publisher contacted Gratzer about republishing his 1959 book. At the meeting with the publisher, Gratzer met the publisher’s mother, who won a mathematics competition in 1960 upon graduation from high school. Her prize was Gratzer’s book. She and her colleagues have used the book to interest high school students in math.

The publisher had the idea of publishing the “Gratzer trilogy” consisting of two books by Gratzer’s father and the second edition of Gratzer’s own book’s mother. The trilogy was published in Hungarian in 2008 and 2009.

A German publisher contacted Gratzer to translate the second edition, and he has just signed another contract for an English translation.

Gratzer points out that many noted mathematicians alive today started in their field with his puzzle book, including the current president of the International Mathematical Union.

The puzzle book is only one of more than 20 of his books that are currently still in print, something that is practically unheard of in science publications. His books on lattice theory are still in demand: Lattice Theory, First Concepts and Distributive Lattices was published in 1971 and reissued in 2009; the third edition of General Lattice Theory, first published in 1975, will come out in Fall 2010; The Congruences of a Finite Lattice was published in 2006. There is also perennial interest in his works on LaTeX, a system that allows the printing and electronic display of complex mathematical formulas. The fourth edition of Math into LaTeX was published in the fall of 2007. Gratzer notes whimsically that the LaTeX books have sold more copies than there are professional mathematicians in North America.

“There’s a real renaissance with my books,” he chuckles. “Most of my early work is being republished and available to new readers.”

Gratzer believes that such books as his collection of puzzles will help high school students discover their interest in mathematics.

“High school mathematics is boring,” he says. “It is very difficult to encourage talented young minds in school.”

He adds: “University education is not much better. In the North American university system, undergraduate math students are not exposed to research. That’s very odd, going into graduate school with no experience in research. It’s like entering a graduate program to become a specialist in ice cream, but not getting a single lick until you’re 24 years old.”

Children are ready to do mathematics research by age 12,” Gratzer says. “Their minds are ready to be taught mathematical concepts and research ideas. In Europe, it is not unusual for a student to write his first research article by age 18.”” (Gratzer wrote his first research article at the age 17.)

Gratzer enjoys working with people towards their goals, and encouraging their ideas. He has a deep appreciation for educating future mathematicians. He teaches a 4th year algebra course for honours students in which they get an opportunity to do research.

He explains: “If you enroll in a PhD program before being first exposed to research, how do you find out whether you can do it and whether it’s what you really want to do?”
The University of Manitoba anticipates research associate positions available over the next six months beginning May 1, 2010 till October 31, 2010.

**Application Procedures:** Applicants should submit a brief vita, names and addresses of three references. In your application package, please clearly state the heading (e.g. Physiology), and the specific field or areas of science.

All applications should be sent to:

Kathy Niziol, HRMC
Academic Advertising Coordinator
Human Resource Department, University of Manitoba
309 Admin Building
Winnipeg, Manitoba R3T 2N2 Canada
Email: Kathy_Niziol@umanitoba.ca

**Research Associate Positions**

The University of Manitoba anticipates research associate positions available over the next six months beginning May 1, 2010 till October 31, 2010.

Successful candidates must hold a doctoral degree or have equivalent qualifications and experience. Minimum starting salary is $33,000.00/annum (under review). We offer a full range of staff benefits for applicable appointments. The University encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.

Pending approval of grant funding, there may be positions available in the following areas:

**Mechanical and Manufacturing Engineering:** finite element method, vibrations, acoustics, ultrasonics, aerodynamics, multiaxial fatigue, fracture mechanics, electronic materials, composites, computer-aided design, finite element analysis, mechanics of materials, nonlinear dynamics, legged locomotion robotics, biomechanics, computer assisted industrial engineering, computer integrated manufacturing, robotics, production planning, integrated CAD/CAPP/CAM systems, reverse engineering, system modeling and simulation, manufacturing process, forming and joining of metals, mechanical properties and repair of gas turbine blades, tribology and lubrication, control systems, actuators and fluid power, fracture mechanics and mechanisms, fatigue, acoustic emission, polymers, dislocation theory, ceramic matrix composites, nanoreinforcement, nanomaterials, aerospace materials, polymers and composite processing, composite joining and bonding, tribology, material characterization, micromechanical and microstructural characterization of metallic alloys, alternative energy and membrane separation systems, electrochemical processes, supersonic and hypersonic flight, aerodynamic stability and control, supersonic and hypersonic flight, aerodynamics, supercritical flow stability, computational fluid dynamics, complex flows, industrial multiphase flows, ice accretion models, steam condenser modeling, computational fluid dynamics, transport phenomena in porous media, core analysis, two-phase flow in condensers, heat transfer, advanced fluid dynamics, rocket propellants, natural flames, laser doppler velocimetry, computational fluid dynamics, turbulence, large eddy simulations, direct numerical simulation, experimental fluid mechanics, transport phenomena.

**Psychiatry:** psychiatric epidemiology, etiology, prevention and health from an interdisciplinary perspective; gerontology; epidemiology; public health; social and behavioural sciences.

**Geological Sciences:** climate change and global contamination, chemical speciation and bioavailability, interaction between earth compounds, condensed matter theory and statistical mechanics, infrared spectroscopy, experimental condensed matter physics, quantum materials, biogeochemistry, biogeochemical cycles, climate change, fire, land cover change, island environments, atmospheric or meteorological forcing, weather processes (mesoscale and synoptic scale forcings), temperature, pressure, wind, precipitation.

**Agricultural and Biological Sciences:** animal reproduction, placental and fetal development, molecular genetics of uterine cell development and diabetes, protein purification, insect pest control, cell signaling, cell biology, gene transfer, prostate and breast cancers, RNA splicing, hypothalamic neuropeptides.

**Chemistry:** electrochemistry, materials characterization with a x-ray and electron probe techniques, photographic energy conversion, conducting polymers, environmental chemistry, environmental analytical chemistry, instrumental mass spec technique, organic synthesis, organometallic chemistry, homogeneous catalysis, high resolution microwave and infrared spectroscopy, conducting polymers, electrical properties, electronic materials, quantum dots, liquid crystal liquid crystal nanocomposites, nanoparticle synthesis and characterization, solid-state NMR of inorganic materials, nanoscale analysis, analytical and biological interfaces, vibrational spectroscopy and spectromicroscopy, protein purification, protein biochemistry, cell signaling, cell biology, plant cell biology, biochemistry and molecular biology, plant pathology, plant genetics and genomics and informatics.

**Cytology:** cell signaling, cancer, hormones, growth factors, apoptosis, biochemistry, epigenetics. Chemistry: electrochemistry, materials characterization with a x-ray and electron probe techniques, photographic energy conversion, conducting polymers, environmental chemistry, environmental analytical chemistry, instrumental mass spec technique, organic synthesis, organometallic chemistry, homogeneous catalysis, high resolution microwave and infrared spectroscopy, conducting polymers, electrical properties, electronic materials, quantum dots, liquid crystal liquid crystal nanocomposites, nanoparticle synthesis and characterization, solid-state NMR of inorganic materials, nanoscale analysis, analytical and biological interfaces, vibrational spectroscopy and spectromicroscopy, protein purification, protein biochemistry, cell signaling, cell biology, plant cell biology, biochemistry and molecular biology, plant pathology, plant genetics and genomics and informatics.

**Applied Mathematics:** mathematical biology, epidemiology, population genetics, spatial analysis of the agro ecosystem in remote sensing and biological field in statistical modeling, forest biophysical processes, Canadian arctic and sub arctic coastal zones, terrestrial systems, atmospheric or meteorological forcing, weather processes (mesoscale and synoptic scale forcings), surface-atmosphere coupling, boundary layer processes, environmental chemistry, environmental geochemistry, biogeochemistry, aquatic chemistry, cryospheric chemistry, long range transport and contamination to polar and subpolar regions, chemical transport across environmental interfaces, chemical speciation and bioavailability, interaction between climate change and glacial shrinkage, human anatomy.

**Human Anatomy and Cell Science:** molecular pathways of cell death in neurodegenerative diseases, neuroprotection, oxidative stress, in the pathological modulation of brain and spinal cord disease, cell signaling, calcium signalling, calcium signaling, calcium, nicotinic acetylcholine receptor, amyotrophic lateral sclerosis, apoptosis, astrocytes, glutamate, excitotoxicity, astrocyte signaling, astrocyte signaling, astrocyte, neuroimmune, neuroinflammation, CNS, mitochondrial, metabolic, gene expression, electroporation, recombinant technology, recombinant antibody, molecular biology (cloning, T-RFLP, gene expression), signal transduction, gene splicing, hypothalamic neuropeptides. Molecular cardiology, molecular biology, gene transfer, prostate and breast cancers, RNA splicing, hypothalamic neuropeptides.

**Physics and Astronomy:** high resolution microwave and infrared spectroscopy, condensed matter physics, neutron scattering and high frequency studies of rare-earth compounds, condensed matter theory and statistical

**Pharmacy:** drug formulation, drug design, transdermal delivery, medical chemistry, anti-cancer drug, pharmacokinetics, pharmacodynamics, buccal delivery, absorption, bioengineering, molecular biology, microbiology, non-ruminant nutrition, digesta, and physiological imaging.

**Genetics:** human evolution, population genetics, spatial analysis of the agro ecosystem in remote sensing and biological field in statistical modeling, forest biophysical processes, Canadian arctic and sub arctic coastal zones, terrestrial systems, atmospheric or meteorological forcing, weather processes (mesoscale and synoptic scale forcings), surface-atmosphere coupling, boundary layer processes, environmental chemistry, environmental geochemistry, biogeochemistry, aquatic chemistry, cryospheric chemistry, long range transport and contamination to polar and subpolar regions, chemical transport across environmental interfaces, chemical speciation and bioavailability, interaction between climate change and glacial shrinkage, human anatomy.

**Animal Health Sciences:** nutrition, ruminant nutrition, digestive physiology, feedstuff evaluation of drug efficacy. Animal research, infectious disease, biosecurity, antibiotic resistant, microbiology, social determinant of drug, evaluation of drug efficacy.

**Animal Sciences:** reproductive and developmental biology, animal physiology, genetics, animal nutrition, animal behavior, animal health, food and nutrition.

**Centre for Earth Observation Science (CEOS):** environmental education, atmospheric science, with a focus in the field areas of electromagnetic and remote sensing of climate science, sea ice geophysics, climatology, this includes either mid-latitude or polar environments, atmospheric science with carbon dynamics in polar marine environment, air-surface carbon exchange, estuarine and tundra environments of the canadian arctic archipelago, coastal terrestrial zones, terrestrial ecosystems, soil (soil-vegetation-atmosphere), eddy correlation systems, forest ecology, agriculture or related biological field in statistical modeling, forest biophysical modeling, invasive species biology, landscape change and spatial analysis of change, remote sensing and image analysis, human geography, human environment, human ecology, or other related fields with a focus on the impact of change or ecosystems, especially aspects of subsistence lifestyles (food, clothing, health, education, informal economy) in the boreal forest, arctic, or west coast island environments, atmospheric or meteorological sciences with a focus on one or more of the following: atmospheric modeling (any scale), atmospheric remote sensing, extremes in the western climate system, severe weather processes (mesoscale and synoptic scale forcings), surface-atmosphere coupling, boundary layer processes, environmental chemistry, environmental geochemistry, biogeochemistry, aquatic chemistry, cryospheric chemistry, long range transport and contamination to polar and subpolar regions, chemical transport across environmental interfaces, chemical speciation and bioavailability, interaction between climate change and glacial shrinkage, human anatomy.

**Department of Medical Education:** curriculum, teaching & learning, lifelong learning, continuing professional development, informatics.

**Centre for Earth Observation Science (CEOS):** environmental education, atmospheric science, with a focus in the field areas of electromagnetic and remote sensing of climate science, sea ice geophysics, climatology, this includes either mid-latitude or polar environments, atmospheric science with carbon dynamics in polar marine environment, air-surface carbon exchange, estuarine and tundra environments of the canadian arctic archipelago, coastal terrestrial zones, terrestrial ecosystems, soil (soil-vegetation-atmosphere), eddy correlation systems, forest ecology, agriculture or related biological field in statistical modeling, forest biophysical modeling, invasive species biology, landscape change and spatial analysis of change, remote sensing and image analysis, human geography, human environment, human ecology, or other related fields with a focus on the impact of change or ecosystems, especially aspects of subsistence lifestyles (food, clothing, health, education, informal economy) in the boreal forest, arctic, or west coast island environments, atmospheric or meteorological sciences with a focus on one or more of the following: atmospheric modeling (any scale), atmospheric remote sensing, extremes in the western climate system, severe weather processes (mesoscale and synoptic scale forcings), surface-atmosphere coupling, boundary layer processes, environmental chemistry, environmental geochemistry, biogeochemistry, aquatic chemistry, cryospheric chemistry, long range transport and contamination to polar and subpolar regions, chemical transport across environmental interfaces, chemical speciation and bioavailability, interaction between climate change and glacial shrinkage, human anatomy.
Saving Prairie Songbirds
Researcher calls decline in prairie species ‘shocking’

ECOLOGIST Nicola Koper wants to show her eight-year-old daughter all sorts of species when they go birdwatching. But the reality is: some types of birds are becoming increasingly rare.

An assistant professor at the Natural Resources Institute, Koper has made it her mission to help save endangered prairie songbirds. Studies she launched in 2008 showed just how great the situation has become in Manitoba.

Two of Koper’s graduate students travelled to remote regions in the province’s south-west corner, where they surveyed various types of prairie songbirds, including Baird’s sparrows.

Their surveys included three of the same sites as a study done in the early 1990s by Stephen Davis and Spencer Sealy, also from the University of Manitoba.

Koper’s jaw dropped when she compared the number of individual birds spotted today – six – with the number of nests found at the same sites 16 years earlier – a whopping 76.

“I was shocked, absolutely shocked by how many nests he found before. It blew me away how dramatic the decline of these grassland songbirds has been. The numbers are drastically lower,” says Koper, who belongs to the Clayton H. Riddell Faculty of Environment, Earth, and Resources. “That is just an example of how extraordinary the declines are that have been recorded.”

The number of Sprague’s pipits, another species Koper studies, has dropped by roughly 80 per cent during the last four decades.

“So when you think about that, for every 10 pipits that were here four decades ago, within our own lifetime, there are only two pipits left. So we are talking very substantial and dramatic declines, not just in the pipits but in other species as well,” she says. “We become so used to what we see around us that we expect that this is natural and normal. In fact, that’s completely untrue.”

Koper says the species of birds most affected are those that live in untouched prairies and don’t adapt well to changes in their habitat.

These days, if moist grasslands – such as those found in Manitoba – are left untouched they develop into forests. In the past, roaming bison and the occasional grass fire would keep that from happening. But bison have since been exterminated and we’ve become better at controlling fires.

We’re losing grasslands to farmers growing crops. Grazing cattle also alters the birds’ habitat. But some grassing is a good thing – since there are no longer wild bison and natural fires to keep grasslands from becoming forest.

Koper’s latest research project aims to figure out how much grazing is the ideal amount to better preserve grasslands and the birds who call this habitat home. She and her collaborators at Grasslands National Park in Saskatchewan have put away amount of cattle in separate pastures so each piece of land is grazed to a different extent. They will compare the songbird populations in these different areas over five to 10 years.

Koper believes the prairie agriculture community will be receptive to her suggestions on how to better preserve the prairie songbird habitat.

“I really think the ranching community and farmers are in favour of preserving grassland ecosystems. There is a lot of potential for collaboration and conservation,” she says.

A change in the eco-system also means a change in the predator community. To better understand these changes, Koper’s team will set up video cameras this summer at songbird nests found in isolated grassland areas in Grasslands National Park. They’ll watch the recordings to figure out whether there are different predators targeting the bird nests, depending on the number of cattle in the field.

It’s unclear how a shrinking prairie songbird population will impact the greater eco-system, but Koper says it should sadden Canadians who love our native wildlife. If we don’t save declining species now, she insists, they won’t be around in the future for subsequent generations to enjoy.

“I want to be able to bring my child out to wild areas and have her be able to enjoy birds and be excited when she sees birds nesting and singing, and I really don’t think that I’m an exception in that way,” Koper says. “I really think that most people appreciate that and even if they don’t go out themselves they want those eco-systems to be intact.”
21st Annual Traditional Graduation Pow-Wow

History’s intimate moments

Winnipeg-born Agnes S. Hart accomplished a lot in her life and happily for us, she documented much along the way. The University of Manitoba Dafoe Library Archives is the recipient Hart’s large home video collection.

A graduate from Kelvin Technical High School and the University of Manitoba (1931), she spent 10 years as an actuarial clerk with Great Western Life before moving to Montreal to work for Canadian National Railway. She returned to Winnipeg upon retirement and lived here till her death at age 80 in 1990.

While original footage takes viewers from Ottawa to Scotland, it is her numerous visits home that paint a remarkable picture of 1950’s life in residential Winnipeg and Victoria Beach cottage country. Hart’s love of the outdoors and travel are well represented in the many instances of garden scenery as well as rail and air travel. The Winnipeg International Airport has particularly interesting coverage, involving views from the tarmac and takedown.

Both Hart and her sister Jane Barrowman returned to their childhood residence to mark many holidays. Winnipeg remained the home of their parents and sister – Dr. Margaret Elder Hart, once the director of the School of Nursing at the University of Manitoba.

Standout moments from the videos have been selected for reformatting by Archive staff and include vignettes of family gatherings, lakeside trips and city infrastructure. The real stars of the show, however, are Hart’s young nieces and nephews who play for the camera in back yards, playgrounds, snow and lakes. The unabashed joy of vacationing children add to the quality of her videos, capturing glimpses of intimate moments combined with Manitoba history.

- Amanda Linden, Library Technician student at Red River College, internship at University of Manitoba Dafoe Library Archives

See more photos from the 21st Annual Graduation Pow-Wow on the U of M Youtube page at youtube.com/umanitoba or directly at http://bit.ly/9fZa0F

Campus as a Community

THANK YOU!

Whatever your role at the U of M, each of you contributes to a stellar education for our students and enables our researchers to discover new ways of understanding our world.

A special thank you to the following Faculties for taking their support even further by supporting priority projects through the Campus as a Community campaign. Your generosity makes a difference to your Faculty’s achievements and student’s success:

- Engineering – Engineering Centenary Award
- Graduate Studies – Graduate Fellowships
- Nursing – Graduate Fellowships
- Science – The Charles Bigelow Reading Room

Keep an eye on upcoming editions of the Bulletin in the Fall where you can meet some of your colleagues who are making a dynamic impact at our university.

Thank you for supporting your university.

Visit umanitoba.ca/admin/dev_adv to find out how you can make a difference.

You are invited to attend

The President and The Poet

... an evening of poetry

Please join University of Manitoba President and Vice-Chancellor, Dr. David Barnard for an evening of poetry reading, dialogue, and book signing with renowned Irish poet Michael O’Siadhail. Described by the Daily Express as ‘one of the most humane and thoughtful of contemporary Irish writers’, Mr. O’Siadhail has served as a lecturer at Trinity College Dublin and professor at the Dublin Institute for Advanced Studies, and has read his poetry worldwide. His recent books of poetry include Globe (2007), Love Life (2005) and The Gossamer Wall: Poems in Witness to the Holocaust (2002).

Tuesday, May 18, 7:00 pm
Marshall McLuhan Hall
204 University Centre, University of Manitoba
Wine and cheese

One university. Many futures.