“Magic squares” mystery solved

University of Manitoba professor tackles Benjamin Franklin’s math puzzle

BY CHRIS RUTKOWSKI
For the Bulletin

He was born in 1706. He flew a kite, discovered electricity, wrote the Declaration of Independence and invented bifocals and that nifty wood stove. Benjamin Franklin also was quite a mathematician. In fact, he thought up a puzzle that has had modern mathematicians fit to be tied.

Until now.

In a paper published this month in the Proceedings of the Royal Society of London, the mystery of Franklin’s “bent magic squares” has been solved. Scientists from the University of Manitoba have shown that his puzzle is solvable in about a million ways.

“Bent magic squares” are a variant of “magic squares” which add up to the same sum up and down and side to side. Franklin’s squares have the added complication of having “bent diagonal sums,” which enhance the difficulty of their solutions.

Supervised by Loly, undergraduate students Daniel Schindel and Matthew Rempel had just graduated in 2004 when they were able to compute the number of solutions exactly using advanced computing techniques.

See SQUARES/P. 2.

Sran wins UMSU election over Smith

The “A Choice for More” slate came out on top in the 2006 University of Manitoba Students’ Union elections.

The voting period for the UMSU election ran from March 1 to 3.

While the results were still unofficial as of press time, Garry Sran was elected president with 1,982 votes compared to 710 for Patrick Smith.

Under the new UMSU executive structure there are now four vice-president positions. Amanda Jonson won the vice-president internal position with 2,028 votes compared to 660 for Jim Barnby.

Jonson and Sran had both run as part of the “A Choice for More” slate while Smith and Barnby had run as a competing slate.

The “A Choice for More” candidates for the three other vice president positions were uncontested. However, students did have the option of voting yes or no for the candidates.

Christian Butera is the new vice-president advocacy with 2,396 yes votes and 302 no votes.

Melanie Rollins is the new vice-president student services with 2,364 yes votes and 324 no votes.

The executive members will be joined by five community representatives: Jason Van Rooy, LGBT students community representative, Christen Roos, students with disabilities community representative, Noel Bruce, Aboriginal students community representative, Xiao Ran Liu, international students community representative, and Robin Dourm, women’s student community representative.

The Graduate Students’ Association also had its election this month. However, the GSA results were not available by press time.

Inside Stories

1. A bronze medal performance for the Bison men’s volleyball team
3. Jacoby considers womanhood in the midst of conflict
4. Medvedev helps keep alumni involved with U of M
5. Black Hole Theatre welcomes William Shakespeare
6. U of M and Manitoba’s Hutterite Colonies join forces
The Manitoba Bison men’s volleyball team was seeded third coming into the 2006 CIS National Championships held at McMaster University and earned a bronze medal by defeating the #5 seeded Dalhousie Tigers in a tough four set match by a score of 3-1 (25-22, 26-24, 30-32, 25-21).

Of course earning a medal is nothing new for the men’s volleyball team. Over the past 26 years they’ve only missed the CIS National Championships once, back in 1996-97.

Under head coach Garth Pischke, the Bisons have collected nine CIS gold medals, nine CIS silver medals, four CIS bronze medals, two fourth place finishes, while their lowest showing was a fifth place. In the bronze medal match, fourth-year veteran Toon Van Lankveld notched a game-high 22 kills with eight digs and was named Manitoba’s player of the game. Matt Balchin and Canada West second team all-star Josh Klassen added 13 kills. Trevor Frose was team leader with 10 digs in his final Bison match. Drew Vetalis led with four service aces and 55 assists.

The team matched last year’s showing at the CIS when they won in the bronze medal game over Saskatchewan by a 3-2 score (24-26, 25-21, 25-17, 25-18, 22-20).

The Bison lost a tough five set marathon to #2 seeded Trinity Western in the semi-final after beating #6 seeded Laval in the straight sets in the first match.

HOCKEY

The Bison men’s hockey team lost a tough two-game Canada West round robin series against #5 seeded Saskatchewan Huskies. The Herd lost 6-5 in overtime in game one on Friday night at Saskatchewan. Manitoba took an early 5-0 lead before the Huskies went ahead 5-3 in the third and the Bisons scored the equalizer with less than eight minutes. Fifth-year forward Kevin Saurette had one goal and two assists in the loss.

In game two, the Bisons lost another one goal game by a 5-4 margin. Manitoba was down 2-0 before two quick goals in the first tied up the match. In the second, Saskatchewan scored three times while the Bisons scored twice. The Herd pulled the goalie in the last minutes of the third but could not find the tying goal and their 2005-06 season came to an end prior to reaching the CIS National Championships.

The solution to Benjamin Franklin’s “magic squares” by physicist Peter Loly and his grad students at the University of Manitoba for University of Manitoba newsmakers.

For University of Manitoba newsmakers. Some of the stories making headlines so far include:

- The solution to Benjamin Franklin’s “magic squares” by physicist Peter Loly and his grad students.
- Manitoba was down 2-0 before two quick goals in the first tied up the match.
- In the second, Saskatchewan scored three times while the Bisons scored twice.
- The Herd pulled the goalie in the last minutes of the third but could not find the tying goal and their 2005-06 season came to an end prior to reaching the CIS National Championships.

New resource for libraries

The University of Manitoba Libraries is now a member of the Center for Research Libraries (Chicago, Illinois). CRL makes available more than 4.5 million publications, archives, and collections and one million digital resources to its member libraries to supplement their holdings in the humanities, sciences, and social sciences. University of Manitoba faculty, students, and staff can obtain center materials at no cost and for extended loan periods through the University of Manitoba’s Document Delivery service.

The Center’s resources include:

- 4,500 U.S. newspapers, many dating from the colonial era, including 2,000 ethnic titles
- 6,500 additional international newspapers, many dating from the 1700s
- Foreign journals, many rarely held by North American libraries, with a focus on sciences and technology

Advertisement in The Bulletin.

For details call 474 8111
Hans von Sponeck

By Dale Barbour
The Bulletin
Former United Nations humanitarian coordinator for Iraq Hans von Sponeck isn’t surprised by unrest in Iraq. Given that its people have survived three wars, over a decade of sanctions and now years of occupation, the only surprise is that the unrest isn’t worse.

Von Sponeck was the keynote speaker at the Global Violence Global Justice seminar held at the Hotel Fort Garry Feb. 24 and 25. He resigned his position with the United Nations in 2000, after 52 years with the agency, out of frustration with the world policy towards Iraq and most specifically with the Oil for Food program. While sanctions might have been a legitimate response to Iraq’s invasion of Kuwait in 1990, von Sponeck said leaving them on indefinitely created humanitarian problems in Iraq.

The Oil for Food program was established by the UN in 1995 and ran until 2003. It was intended to market Iraq’s oil and ensure the revenue was spent on humanitarian items such as food, rather than military equipment.

“The program wasn’t meant to run well,” von Sponeck said. “I was deeply ashamed to be the humanitarian coordinator when all the funds to pay for the program were coming from Iraq.”

Despite the name of the program, von Sponeck said less than half the $63 billion raised through the sale of oil was spent on food for the Iraqi people. Most of the money was chewed up through compensation payments to the victims of the Gulf War or a byzantine procurement process that included the regular blocking of shipments by the United States and United Kingdom whenever they had concerns about where the shipments were heading.

Given that the Oil for Food program controlled all the income coming into Iraq, the Iraqi government was forced to look elsewhere for money to run the government. The Iraqi people, with little income from employment, were completely reliant on the Oil for Food program for their survival, getting by on about $185 per year.

“Even if you worked in a leading position in the Oil for Food program, you had to battle to keep an understanding of the program. There were systematic ways of misinforming people about how it operated,” von Sponeck said.

For example, in response to concerns the Iraqi people didn’t have enough money to live on, the UN agreed to raise the ceiling in the Oil for Food program in 1999—henceforth there was no limit on the amount of oil Iraq could sell to purchase food.

“But lifting the ceiling didn’t lead to any growth in oil sales because under the sanctions Iraq couldn’t produce more oil. It didn’t have the money to build up its industry,” von Sponeck said.

The impact on people showed itself in areas such as the child mortality rate. During the period from 1998 to 2000, when von Sponeck was in Iraq, the mortality rate for children under five years old was between 100 and 120 child deaths per 1,000 children. In the 1980s, that figure had been 25 child deaths per thousand children. In Canada, by comparison, the mortality for children under five years old is five per 1,000 children.

“School attendance dropped fantastically during the same time, more so for girls than boys,” von Sponeck said.

When the United Nations did choose to examine the Oil for Food program, von Sponeck said it did so strictly from an accounting point of view; there was no effort to examine the program’s impact on the Iraqi people. And when he and other people on the ground tried to change that perspective, von Sponeck said they were ignored.

The Global Violence Global Justice conference fell during a spike in violence in Iraq, now occupied by the United States following the second Gulf War. Von Sponeck said he was frustrated by the unilateralism of the United States, shown by its actions in Iraq and in its relationship with the United Nations.

Von Sponeck noted John Bolton, U.S. ambassador to the United Nations, has said the United States will use the United Nations when it suits its purpose and go it alone when it doesn’t.

The relationship between the United Nations and the United States won’t improve until there is a change in that country’s political climate, von Sponeck said. But he noted the culture of the United Nations also has to change and it needs to revitalize itself. Currently, decisions by the Security Council are made without a concept of case law, which means the United Nations can’t learn from, as one example, its experience in Iraq when it comes to making a decision the next time.

Perhaps more importantly the United Nations needs to communicate what it is doing to the world—too often, when it does speak, its reports and commentary are couched in bureaucratic language that is all but unintelligible to outsiders.

“There is a gap between the wider global community and the United Nations,” von Sponeck said. “We live in a sort of splintered isolation.”

Academics, who often get accused of living in ivory towers themselves, could help.

“We need the minds of the thinkers to help us pursue change and revitalize our thoughts on what different types of United Nations’ membership could mean.”
CALL FOR PROPOSALS
Major Outreach Projects

The Outreach Committee is committed to enlarging and enriching the contacts between the University and all segments of the community, particularly through sharing more effectively its resources within the community. Support is provided for activities that engage the University, its people and programs, with external constituencies that enhance the public good and the University. Guidelines and Application forms can be found under the heading “Major Outreach Awards” on the Vice-President (Academic) & Provost website:

www.umanitoba.ca/admin/vp_academic_forms.html

The maximum level of support is $5,000 - $7000. Please note that Outreach funds are very limited. For details, please see the guidelines for submission in February. Applications should be submitted to Dr. Karen R. Grant, Vice-Provost (Academic Affairs), and Chair, Presidential Advisory Committee on University Outreach.

DEPARTMENT OF PSYCHIATRY
Faculty of Medicine

DEPARTMENT OF MENTAL HEALTH
Winnipeg Regional Health Authority

Professor and Head

The Faculty of Medicine, University of Manitoba, and the Winnipeg Regional Health Authority invite applications and nominations for the position of Head of the Department of Psychiatry, Faculty of Medicine, University of Manitoba and Medical Program Director, Mental Health Program, Winnipeg Regional Health Authority. This position is a five-year term commencing July 1, 2006 or as soon thereafter as possible. Applicants who hold a geographical full-time appointment within the University are invited to apply.

Candidates must have a substantial record and achievement in Psychiatry/Mental Health and extensive experience in teaching and research, as well as proven administrative skills. The Department is responsible for all of the undergraduate training in Psychiatry in the Faculty of Medicine, University of Manitoba. The Mental Health Program provides care to the citizens of Manitoba through two tertiary hospitals and community hospitals as well as community programs and services within Winnipeg. Candidates must be eligible for registration with the College of Physicians and Surgeons of Manitoba. Certification in Psychiatry by the Royal College of Physicians and Surgeons of Canada and Medical Program Director of the Department

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This University academic department serves as the sole academic resource in Mental Health and Geriatric Psychiatry. As well, the Department is responsible for all of the postgraduate training program in Psychiatry, as well as subspecialty fellowship training in Mood and Anxiety, Psychotherapy, Child and Adolescent Psychiatry and Geriatric Psychiatry. As well, the Department is responsible for all of the postgraduate training program in Psychiatry, as well as subspecialty fellowship training in Mood and Anxiety, Psychotherapy, Child and Adolescent Psychiatry and Geriatric Psychiatry.

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As Medical Director of the WRHA, the successful candidate will lead the planning, service provision and evaluation of clinical services within the WRHA. Responsibilities as Medical Director include providing input into policy, standards of care and distribution of mental health resources across the Winnipeg region.

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Mr. Chipp H. Zuk
Bison Sports Information Officer

BY CHRIS ZUK
Bison Sports Information Officer

The Manitoba Bison men’s hockey team advanced to the Canada West Divisional Final with a tough, hard fought 2-1 home series win against the Regina Cougars on Feb. 24-26. A major contributor to the Canada West Divisional Semi-Final series victory was forward Warren McCutcheon. He accounted for seven points over the three game playoff series and earned the Canada West Hockey Player of the Week for the week ending Feb. 26.

SWIM TEAM IN SEVENTH PLACE

At the conclusion of the 2006 CIS Swim Championships in Quebec City, the Manitoba Bison women’s swim team finished in seventh position with 178 points.

Senate backs new PhD program

BY DALE BOURBON
The Bulletin

Senate approved a proposed PhD in Applied Health Sciences at its regular meeting on March 1. With Senate’s approval the program will move to the Board of Governors for final approval. However, Senate did recommend that the University implement the program until sufficient new funding is in place to fund the implementation and on-going operation of the program. Senate member Philip Hultin also questioned whether a new program requiring funding would stress existing programs.

The program is expected to require funding for one administrative assistant position and the equivalent of an entry-level assistant professors salary will be sought from the Council on Post-Secondary Education, the provincial funding body.

The program is a combined effort of the faculties of Human Ecology, Nursing, Physical Education and Recreation Studies, and the School of Medical Rehabilitation and is intended to recognize the multidimensional aspect of health care.

Senate Briefs

AWARDS

The Senate committee on awards approved 15 new awards, three award amendments and three award withdrawals. The Senate recommendation moves to the Board of Governors for final approval.

PAYING RESPECT


NOMINATIONS

The nomination of Udaya Annakkage, engineering, and Brian Amiro, recreational and food services, for the Senate committee on appeals was approved by Senate on March 1.

McCutcheon is player of the week

BY CHRIS ZUK
Bison Sports Information Officer

Landice Yestrau had three Top five finishes at the 2006 CIS Championship in Quebec City over the three-day event. She was a bronze medalist in the 50m backstroke and finished seventh in the 100m butterfly. She swam a time of 28.77 for the bronze medal and broke her own Bison swim record at that event. The Winnipeg native was fifth in the 100m backstroke in a time of 1:01.59. She again broke her own Bison swim record in that event.

Julianne Toogood was fifth in the 50m freestyle in a time of 25.96. On the men’s side, rookie Braeden Taylor swam fifth in the 200m breaststroke in a time of 2:20.99.

Dr. Brenda Hann,
Professor, Department of Zoology,
Faculty of Science

Lake Winnipeg: A View from the Bottom of the Lake

How do climate change and nutrient loading affect the health of Lake Winnipeg? The organisms living in the bottom sediments may provide important clues to understanding changes in the food web that have occurred over the past decades, as well as predicting the future state of the lake. Join us for an informative discussion about the latest research on Lake Winnipeg.

Wednesday, March 22, 7:00pm, Smartpark Lobby Boardroom
135 Innovation Drive, Fort Garry Campus
Everyone welcome!

www.umanitoba.ca/research
474-9020
FREE ADMISSION
FREE PARKING
The University of Manitoba has always focused on the twin goals of teaching and research. With those goals in mind, The Bulletin is proud to welcome the university’s new faculty members. As a new feature, The Bulletin will be profiling new professors, looking at where they’ve come from and where their teaching and research projects will take the university in the future.

**CHRISTINA O. LENGYEL**
Assistant Professor
Human Nutritional Sciences
Faculty of Human Ecology

Christina O. Lengyel came to the University of Manitoba in January 2005 from the University of North Carolina at Greensboro. Christina completed her PhD from the College of Pharmacy and Nutrition at the University of Saskatchewan and is a registered dietitian. Christina’s research focuses on nutrition and health-related issues of older adults residing in personal care homes, assisted living facilities, and in community residences. More specifically, her research projects include: nutrition knowledge, beliefs and dietary intake of rural and urban dwelling older adults; food service satisfaction of cognitively impaired and non-impaired older adults residing in personal care homes; relocation and lifestyle changes; dietary profiles of elderly males; and functional food use among aging consumers.

As the University of Manitoba’s Centre on Aging research group coordinator, Christina has been able to network with other researchers working in the field of aging. This has given her many opportunities to establish collaborative research projects emphasizing the importance of working in an interdisciplinary environment and mentoring graduate and undergraduate students. Currently, she is working with Robert Tate, community health sciences, Faculty of Medicine on secondary data analyses using nutrition information from the Manitoba Follow-Up Study. Christina teaches management for food and nutrition professionals.

**JAVIER MIGNONE**
Assistant Professor
Family Social Sciences
Faculty of Human Ecology

Javier Migione holds a masters-equivalent degree in psychology from Universidad del Salvador, Buenos Aires, Argentina, a masters in health services administration from the University of Alberta, and a PhD in community health sciences from the University of Manitoba. He also completed post-doctoral training with the International Centre for Infectious Diseases at the University of Manitoba, focusing on HIV/AIDS prevention.

Javier is originally from Argentina, where he practiced as psychologist and was involved in health policy. After coming to Canada, he worked for the capital health authority in Edmonton, Alberta, in areas of health information, program performance and program evaluation. He was also a consultant with Alberta Health, drafting policy on regional health authorities’ governance and accountability. Javier’s research interests have centered on the area of social determinants of health. He has led a study on the conceptual development of social capital in First Nations communities and the validation of an instrument for its measurement. Aside from continuing in this area of research, he is developing research and development projects on intercultural health with indigenous partners in Latin America and Canada. Javier is also a research associate with the Centre for Aboriginal Health Research.

**ANASTASIA KELEKIS–CHOLAKIS**
Assistant Professor in Periodontics
Dental Disease and Surgical Sciences
Faculty of Dentistry

Anastasia Kelekins-Cholakis obtained her BA (University Gold medal) from the University of Winnipeg, in 1988 and a degree in dentistry from the University of Manitoba in 1992. She obtained her diploma in periodontics at the University of Manitoba and concurrently attended the Misch Institute program in implant dentistry from 1995-98.

Along with teaching at the University of Manitoba and serving as clinical director of the Graduate Periodontics Clinic, Anastasia maintains a private practice specializing in implants and cosmetic periodontal procedures with the Southwest Specialty Group, in Tuxedo.

She is currently involved in two research projects dealing with prema ture low birth weight deliveries and periodontal disease and the effect of antibacterial coating of sutures and periodontal wound healing.

Anastasia is also one of the founders of the Canadian Dental Institute, an organization that focuses on presenting interdisciplinary continuing dental education seminars for general dentists.

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**CENTRE ON AGING STUDENT AWARDS**

**Award (Value)**
- Centre on Aging Betty Havens Memorial Graduate Fellowship ($4,000.00)
- Jack MacDonell Scholarship for Research on Aging ($4,000.00)
- Esther and Samuel Milmot Scholarship ($500.00)

**Purpose**
- To encourage and stimulate student interest in research activity in aging.

**Eligibility**
- For the Centre on Aging Betty Havens Memorial Graduate Fellowship and Jack MacDonell Scholarship for Research in Aging. Full-time Master’s students, medical residents pursuing full-time research, and PhD students at the University of Manitoba whose studies focus on aging.
- For the Esther and Samuel Milmot Scholarship. Full-time students pursuing a program which bears on gerontology in the Faculty of Arts or in the Faculty of Graduate Studies with the principal field of study in a department of the Faculty of Arts, University of Manitoba

**Conditions for All Applicants:**
- Applications and references must be received no later than April 3, 2006.
- Applications must include a description of the proposed research including a statement of its relevance to aging.
- Applications must include all University transcripts. Two references from faculty familiar with the applicant's work are to be forwarded by the referee directly to the Centre on Aging, on appropriate forms.
- The awards will be payable in installments during the period September 1, 2006 to May 1, 2007.
- All recipients will be required to submit a progress report by May 1, 2007. Any resulting publications must also acknowledge financial support.
- These awards may not be held more than once during a specific degree program.

**Additional Conditions for Graduate Students:**
- In addition to the two references noted above, a supporting letter must be forwarded by the applicant’s faculty advisor.
- A copy of the recipient’s thesis/dissertation, when complete, must be submitted to the Centre on Aging. Financial support from the Centre must be acknowledged.

**Committee of Selection**
- The selection committee for this fellowship will be appointed by the Centre’s Advisory Board. Various disciplines will be represented.

**Application Forms are Available from:**
- Centre on Aging
- 338 Isbister Building
- University of Manitoba
- Winnipeg, Manitoba, R3T 2N2

Closing date for applications: April 3, 2006.

**Advertise in The Bulletin. For details call 474 8111**
Jacoby considers how women use “womanhood”

Political Studies professor Tami Jacoby looks at the Palestinian-Israeli conflict in her latest book *Women in Zones of Conflict: Power and Resistance in Israel*. In the book, she examines how “womanhood” fits into the Israeli-Palestinian conflict through the lens of women's movements that organized for the Palestinian cause.

Jacoby interviewed various women's groups and found that women’s movements often used motherhood as a universal symbol to advocate for the Palestinian cause. For example, the movement Women in Green, which campaigns for peace with the Israeli Defence Forces, utilized motherhood as a patriotic symbol. In contrast, the Jerusalem Link, which seeks to link women with the nation, used motherhood as a symbol of women's rights to fight in the Israeli Defence Forces. What she found was a set of people who saw eye to eye on women's rights to fight, but the reality is not that simple: ethnicity, economics, politics, and social groups all affect women’s perspectives on the conflict.

Jacoby looked at three distinct Israeli groups for her study: the right-wing Women in Green, the left-wing Jerusalem Link and the lobby for women’s right to fight in the Israeli Defence Forces. She found that the women in her study were part of different movements and generally worked independently to keep a distance and have a critical edge to women's studies that I think is not present in a lots of feminist work,” Jacoby said. But that's not to say her subjects weren’t prepared to rally her to their causes. When she was covering the Women in Green, Jacoby said their leaders would always insist on conducting the discussions during public protests — allowing them to add Jacoby to the crowd. They even went so far as to ask if she would mind carrying a placard while talking to them.

Jacoby noted that the third wave of feminism looks at different groups of women and rejects the solidarity of the sisterhood of women. Women are not a collective and these groups use what the feminist movement has offered them to promote vastly different agendas.

The Women in Green, for example, used motherhood as a patriotic symbol to link women with the nation. In contrast, the Jerusalem Link, which campaigned in support of peace with Palestinians, used motherhood as a universal symbol to advocate for the care of all children. Despite the differences between the groups, Jacoby said they did have some aspects in common: “They were both independent women’s movements – they organized to keep a distance and have a critical edge to women’s studies that I think is not present in a lots of feminist work,” Jacoby said. But that's not to say her subjects weren’t prepared to rally her to their causes. When she was covering the Women in Green, Jacoby said their leaders would always insist on conducting the discussions during public protests — allowing them to add Jacoby to the crowd. They even went so far as to ask if she would mind carrying a placard while talking to them.

Women in Zones of Conflict was nearly ten years in the making, beginning in 1996 with Jacoby's doctoral dissertation. With her PHD work, the book is intended to be accessible to the general public. It provides a snapshot of the events during the Palestinian-Israeli peace process during the late 1990s, with additional material added to bring the book up-to-date. If there's a disappointment in looking back over the breadth of time involved in the book's research, it's that the region has not been able to follow up on the window of opportunity that seemed present during the peace process.

“I was hopeful in the 1990s,” Jacoby said. “I wanted to understand how this region lost its sense of moderation and how it might be able to return to it. But that didn’t happen the region is now in a worse situation than it was before.”

Jacoby is currently looking at the Israeli Security barrier and the different views on the barrier. Once again the research is taking her into Israel for extended interviews and meetings with the people involved.

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**Books**

by University Staff

**BY DALE BARBOUR**

The Bulletin


“The objective was to look at how women in a conflict zone contest feminist symbols,” Jacoby said. “I went into the research with the goal of problematizing the idea of Israeli women as being one homogeneous commodity.”

It’s easy to look at the Palestinian-Israeli conflict and assume that women fall into one camp or the other. But the reality is not that simple: ethnicity, economics, politics and social groups all affect women’s perspectives on the conflict.

Jacoby looked at three distinct Israeli groups for her study: the right-wing Women in Green, the left-wing Jerusalem Link and the lobby for women’s right to fight in the Israeli Defence Forces. What she found was a set of people who saw eye to eye on very little.

“The third wave of feminism looks at different groups of women and rejects the solidarity of the sisterhood of women. Women are not a collective and these groups use what the feminist movement has offered them to promote vastly different agendas.”

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Researching the book meant sitting down with both leaders and rank and file members of the different groups for extended interviews in an effort to capture their thoughts and feelings. Jacoby said feminist writers often focus on advocacy and promoting the movements they are writing about: but she wanted to take a step back from that role.

“I chose to write about politics that I don’t agree with. It allowed me to keep a distance and have a critical edge to women’s studies that I think is not present in a lot of feminist work,” Jacoby said. But that’s not to say her subjects weren’t prepared to rally her to their causes. When she was covering the Women in Green, Jacoby said their leaders would always insist on conducting the discussions during public protests — allowing them to add Jacoby to the crowd. They even went so far as to ask if she would mind carrying a placard while talking to them.

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**Distinguished Lecturer**

Academic Motivation of Elementary School Children: The Effects of Age, Gender, Parents, and Teachers

a public lecture

**DR. FRÉDÉRIC GUAY**

Dr. Frédéric Guay is a professor of guidance counseling at Laval University, and has been the Canada Research Chair on Motivation and Academic Success since 2003. The main goals of the project are to describe the incidence and patterns of development of student motivation and to ascertain whether those development patterns serve as predictors of academic performance and dropping out. Guay completed his PhD studies in social psychology at the University of Quebec at Montreal in 1997. During this time, he developed a number of studies on family related factors that foster school motivation and academic success.

**Thursday, March 16**

7:30 p.m. to 9:00 p.m.
Room 224, Education Building
University of Manitoba
Fort Garry Campus

All are welcome | Free Admission
For more information please see: wwwumanitoba.ca/education

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**Animals and Us: Rights, Responsibilities, Relationships**

**A Lecture Series**

**DANA MEDORO**

“Zero at the Bone: Tracking Emily Dickinson’s Animals”

Friday, March 17th, 12:30 pm
450 Tier Building

Dana Medoro is an associate professor of English at the University of Manitoba and the author of The Shining of America

**RICHARD BULLIET**

“Hunters, Herders and Hamburger”

Monday, March 27th, 12:30 pm
Conservatory Lounge, University College

Richard Bulliet is a professor of history at Columbia University and the author of eleven books of non-fiction, including *Hunters, Herders, and Hamburger: The Past and Future of Human-Animal Relationships and The Camel and the Wheel*.

Sponsored by the Centre for Professional and Applied Ethics & the Institute for the Humanities

Everyone is welcome to attend
Medvedev helps alumni stay linked to university

A Day in the Life of a marketing and communications manager

BY DALE BARBOUR
The Bulletin

There’s still a bit of the political studies student in Russell Medvedev. Originally from Souris, Medvedev picked up a BA in political studies from Brandon University and followed it up with a MA in political studies from the University of Manitoba. But while he was earning his education, he also picked up a career, getting involved with the fledgling public relations department at Brandon University. Later, he followed his studies at the U of M with communications work at the Faculty of Nursing before moving on to the Alumni Association as its marketing and communications manager in 2001.

The most visible part of my job is editor of On Manitoba, the alumni magazine for the University of Manitoba, which includes every aspect of the magazine: selecting the stories, editing, arranging photography, working with mock layouts and managing the production process.” Medvedev said. At last count the alumni magazine was sent out to approximately 127,000 graduates in 148 different countries as well as other stakeholders. A pdf version is also on the internet so that people who don’t receive it can access it.

“I really enjoy the mix that comes with the job. I get to blend the managerial side with the creative side.” Russell Medvedev. The third part of Medvedev’s job involves working as the “assistant executive director.”

“First step in for executive director Karen Gamey when she’s out of the office and work closely with her to prepare various reports,” Medvedev said. He is also the information keeper for alumni affairs, tracking the department’s performance, monitoring details such as website hits and the number of connections made with alumni. If there’s a constant hit to Medvedev’s work it’s that all of it involves working with people – and that’s where a background in political studies comes back to help him.

“Political studies gives you a good perspective when you’re working with administration and when you’re working in public relations. It’s a natural fit,” Medvedev said. “I really enjoy the mix that comes with the job. I get to blend the managerial side with the creative side. It’s really rewarding that way.”

Russell Medvedev is the Alumni Association’s communications and marketing manager but he’s probably best known as editor of On Manitoba, the university’s alumni magazine.

Roberta Woodgate
Assistant Professor, Faculty of Nursing

Giving a “Voice” to Children and their Families

Dr. Woodgate’s research is focused on children’s illness and health experiences with an emphasis on giving children and their families a voice throughout the research process. She will talk about her work on the development and testing of a computer video-game approach for the self-assessment and management of symptom experiences by children with cancer. Ultimately, it is hoped that children will be able to better cope with their cancer symptom experiences, and experience an improved quality of life.

Tuesday, March 14, 2006
12:00 noon
Private Dining Room
The University Club, Pembina Hall

$4/person (lunch provided)
Space is limited. Registration is required.
To reserve your seat, contact Phyllis Brown
Phone 474-6200
Email: brownp@cc.umanitoba.ca

This series is sponsored by the Office of the Vice-President (Research)
University of Manitoba

**Events Listing**

**Plus**

Thespians welcome spring with Winter’s Tale

Fort Garry Campus

Director Margaret Groome describes it as “a truly remarkable play in which audiences can experience in one work Shakespeare’s mature treatment of both tragic and comic themes.”

Groome is not only directing, but also acting in The Winter’s Tale. She was trained as an actor in Canada and in England. She has extensive professional experience as an actor on stage, TV, and film. She last directed Pinter’s The Hot House for PinterFest in 2005.

Groome received the Richard Plant Award by the Association for Canadian Theatre Research for her essay entitled, “Afirmative Shakespeare at Canada’s Stratford Festival” in Essays in Theatre in May 1999.

The show runs March 7 to 11 and 14 to 17 at the Black Hole Theatre. Performances begin at 8 p.m. Tickets are $11; $9 for students and seniors. For reservations and group discounts contact the Arts 24 hr box office at 474-6880.

**SUNDAY, MARCH 12**

**Classee, Art and War at the Achaemenid Court by Michael Roaf, University of Munich.**

Thursday, March 16.

**TUESDAY, MARCH 14**

**Smartpark INTERACTIVE Breakfast Series presents: The Power 50:**

with Sam Katz, mayor of Winnipeg.

**Wednesday, March 15**

**EDUCATION/Psychology, Academic motivation of elementary school children: The effects of age, gender, parents and teachers by Frédéric Guay Canada Research Chair on Motivation and Academic Success Université Laval, 244 Education Building 7 p.m., Thursday, March 16.

**Fine Arts Visiting Artists Lecture with Kent Monkman, painter and video artist, 207 Fitzgerald Building, School of Art, 7 p.m., Thursday, March 16.

**Events Continued on Page 10.**
Bannatyne Campus and St. Boniface Research Centre

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

THURSDAY, MARCH 9
Immunology: Annual Graduate Student Research Presentations, Expression of P35K proteins in normal and leukemia B cells by Jennifer Costantini, immunology, 12:30 p.m., Human Airway Smooth Muscle Cells Express the Fc-Alpha Receptor by Michael Peirson, immunology, 12:30 p.m., Immunology Library 604/605 Basic Medical Sciences Building, Thursday, March 9.

Manitoba Institute of Cell Biology, Dangerous liaisons: cancer biology lessons learned from studying chimeric translocations by Per Skov Sorensen, professor, pathology and laboratory medicine, University of British Columbia, Theatre B Basic Medical Sciences Building, 4 p.m., Thursday, March 9.

FRIDAY, MARCH 10
Medicine, Steroid And Recurrent Hepatitis C After Liver Transplantation by Eberhard Renner, professor, Department of Internal Medicine and Pharmacology and Therapeutics, University of Manitoba, Pharmacology Library 212 Chown Building, 9 a.m., Friday, March 10.

Immunology, Immune regulation and inflammation: Insights from the eosinophil and tryptoyphant catalysis by Michael Hoque, division of pulmonary medicine, department of medicine, University of Alberta and Immunoregulation Laboratory, division of infectious diseases, Queensland University of Technology, Immunology, Immunology Library 604/605 Basic Medical Sciences Building, 10 a.m., Friday, March 10.

Community Health Sciences, Cervical Cancer: does knowing who, how and why make a difference? by Alan Demers, epidemiologist, epidemiology and cancer registry, CancerCare Manitoba, Dr. Betty Havens Seminar Room R060 Medical Rehabilitation Building, 771 McDermot Ave., 12 p.m., Friday, March 17.

Immunology Seminar, Transcriptional regulation of lymphatic vessel development by Pradyut Wijge, St. Boniface Research Centre, biochemistry and medical genetics, University of Manitoba, Immunology Library 604/605 Basic Medical Sciences Building, 12 p.m., Thursday, March 16.

Pediatric Research Round, Perceptions and Assessment of the Risks to Involving Children in Research: Perspectives of Research Ethics Board Members, Child Health Researchers, and Families by Roberta Woodgate, Faculty of Nursing, 500 Boardroom John Buhler Research Centre, 12 a.m., Thursday, March 16.

Manitoba Institute of Cell Biology, Analysis of Notch receptor activation in mammary gland development and cancer by Sean Egan, associate professor, medical genetics and microbiology, University of Toronto, Theatre C Basic Medical Science Building, 4 p.m., Thursday, March 16.

FRIDAY, MARCH 17
Community Health Sciences, Premenatal Care Utilization in Manitoba: Determinants and Association with Preterm Birth by Maureen Heaman, associate professor and associate dean, Research, Faculty of Nursing, Dr. Betty Havens Seminar Room R060 Medical Rehabilitation Building, 771 McDermot Ave., 12 p.m., Friday, March 17.

Manitoba Institute of Cell Biology, Importance of myogenesis in morphogenetic events, Cell differentiation and survival by Boris KUBLAR, associate professor, Department of Anatomy and Neurobiology, Dalhousie University, CancerCare Manitoba, Lecture Theatre - ON2134, 675 McDermot Ave., 4 p.m., Friday, March 17.

MONDAY, MARCH 20
Biochemistry and Medical Genetics MSc Oral Defence, Altered Connexin 43 Expressions And Function in Cardiactubin Deficient Cells by Malteh Aghasi, 341 Basic Medical Sciences Building, 11 a.m., Monday, March 20.

National Training Program in Allergy and Asthma Research Seminar Presentations, Recall immunity against RSV and MPV in asthmatics with a previous history of broncholithia by Renée Douville, Immunology and Transfection of Dendritic cells with siRNA by Kamran Kadkhoda, immunology, Immunology Library 604/605 Basic Medical Sciences Building, 3:50 p.m., Monday, March 20.

WEDNESDAY, MARCH 15
Biochemistry and Medical Genetics, Chromatin Condensation in Apoptin General Hospital, 7:45 a.m., Wednesday, March 15.

THURSDAY, MARCH 16
Pediatrics Grand Rounds, The uses and abuses of EEG by Michael Salam, Theatre A, Basic Medical Science Building, 8 a.m., Thursday, March 16.

Immunology Seminar, Transcriptional regulation of lymphatic vessel development by Pradyut Wijge, St. Boniface Research Centre, biochemistry and medical genetics, University of Manitoba, Immunology Library 604/605 Basic Medical Sciences Building, 12 p.m., Thursday, March 16.

Music at Midday, Virginia McKee, piano, 12:30 p.m., Monday, March 13.

Musical Theatre Concert, 8 p.m., Monday, March 13.

Thursday, March 9
- E-mail events to barbourd@ms.umanitoba.ca or fax, 474 7631.
- The Bulletin publishes events involving the university community.

26 Curated by Cliff Eyland
February 9 to March 10

The group, “26” or “Two-Sicks” or “Twenty-Six” or “Toosie” – there are endless variations – includes Cyrus Smith, David Winyk, Shaun Morin, Melanie Rocan, Ian August, Fred Thomas, DJ Bracer (Mike Topf) and guest. Except for Fred Thomas and DJ Bracer, 20ers are all recent graduates of the University of Manitoba’s School of Art in Winnipeg.

ST. JOHN’S COLLEGE
St. John’s hosts exhibits in its Quiet Room Gallery, Room 111. Gallery hours are 10 a.m. to 4 p.m., Monday to Friday, but please contact 474 8531 to confirm.

DREAMING OF BIRDS
by Ann Smith
February 9 to March 23
Ann Smith was born in Vancouver, British Columbia. She holds a bachelor of fine arts (honours) degree from the University of Manitoba and currently resides and works in Winnipeg, Manitoba. In Dreaming of Birds, Smith deals with fantastical imagery and an abundance of colour in order to evoke emotion. Animals often populate these mysterious environments and are found coexisting harmoniously with the people that are also present. The show will include approximately nine works that employ various mediums such as printmaking, collage, watercolour and handmade paper.

DR. PAUL H.T. THORLAKSON GALLERY
The Iceland Reading Room, Elizabeth Dafoe Library, University of Manitoba Gallery hours: Mon. - Fri. 9 a.m. – 5 p.m. (Weekend openings being arranged.)

MODERN RAIDERS – VIKINGAR NÚTÍMANS
March 19 to April 15
In ancient times, Icelanders went on raids (fara í viking) to pillage and steal from other nations. Their journeys lasted months or years and when the heroes returned triumphant they brought home various treasures from foreign countries, either for personal use or to endow their homeland with new information, technology or ideas. In visual arts it has long been customary that artists go raiding whether they want to conquer new worlds or endow their homeland with new information, technology or ideas. The Modern Raiders exhibit includes the work of two such “Vikings.” Jón Óskar and Hekla Dógg symbol of how the world is constantly shrinking and creating more opportunities cultural conflict. The exhibits opens 3-5 p.m., Sunday, March 19.

For further information call 474 6545 or email sigtid_johnson@umanitoba.ca.

THE BLACK HOLE THEATRE
The Black Hole Theatre is located in the lower level of University College. For tickets call 474 6880. All performances take place at 8 p.m. Tickets are $11 for adults, $9 for students.

THE WINTER’S TALE
by William Shakespeare
March 7 to 11 and 14 to 18
The Winter’s Tale serves up a classic Shakespearean tale of romance, intrigue, jealousy and regrets. The perfect example of tragicallyom, our production provides the opportunity for audiences to view one of Shakespeare’s rarely performed works. Directed by Margaret Groome.
Elizabeth Dafoe Library Graduate Student Lecture Series 2005-06, Developing Critical Thinking Skills of Students in a First Year Course by Louis Hemphouse: Lecturing, Ireland Room, Third floor, Elizabeth Dafoe Library, 12:30 p.m., Friday, March 24.

Physics and Astronomy, Colossal Magneto Resistance and the Giant Magneto Electric Effect in Transition Metal Compounds by Gwyn Williams, physics and astronomy, University of Manitoba, 330 Allen Building, 3:50 p.m., Friday, March 24.

Clayton H. Riddell Faculty of Environment, Earth, and Resources, Biomarker or bioindicator? A question concerning the doses by Mark Hanson, University of Manitoba, 221 Wallace Building, 2:30 p.m., Friday, March 24.

Psychology, Orienting in response to social and symbolic cues by Chris Friesen, department of psychology, Center for Visual Neuroscience North Collicium, University College, 12:30 p.m., Monday, March 27.


TUESDAY, MARCH 25

A n i m a l s  a n d  U s :  R i g h t s ,  R e s p o n s i b i l i t i e s ,  R e l a t i o n s h i p s ,  Z e r o  a t  t h e  B o n e :  T r a c k i n g  E m i l y  D i c k i n s o n ’ s  A n i m a l s  a n d  U s :  R i g h t s ,  R e s p o n s i b i l i t i e s ,  R e l a t i o n s h i p s ,  Z e r o  a t  t h e  B o n e :  T r a c k i n g  E m i l y  D i c k i n s o n ’ s  A n i m a l s by Dana Medoro, associate professor to conduct research in animal immunology relevant to poultry production and teach poultry production and immunology Start date: Aug. 1 Salary: Commensurate with experience and qualifications Application deadline: April 14 Position number: 03532 For information: Dr. W. Guenter, chair, research committee, department of animal science, Faculty of Agricultural and Food Sciences, University of Manitoba, 330 Allen Building, R3N 2N2, phone 474-9354, fax 474-7628, e-mail wgunter@cc.umanitoba.ca.

FACULTY OF SCIENCE

Department of Mathematics Position: Assistant professor Start date: July 1 Application deadline: April 9 Position number: 03530 For information: Dr. W. Guenter, chair, research committee, department of animal science, Faculty of Agricultural and Food Sciences, University of Manitoba, 330 Allen Building, R3N 2N2, phone 474-9354, fax 474-7628, e-mail wgunter@cc.umanitoba.ca.
Taking a closer look at the health of Lake Winnipeg

By Frank Nolan, Research Promotion Officer

Lake Winnipeg is the tenth largest body of fresh water in the world, and Canada’s second largest watershed. It is also the third largest hydroelectric reservoir on the planet, and home to the largest commercial freshwater fishery in western Canada.

Unfortunately, Lake Winnipeg is being increasingly threatened by a combination of excess nutrient loading, climate change and the invasion of foreign species. Given its importance to Manitoba’s fishing, hydroelectric and tourism industries, most of us would assume that the health of the lake has been exhaustively researched and monitored. According to University of Manitoba zoologist Brenda Hann, however, that is simply not the case.

“One of the things that is somewhat shocking to most people is how little we know about Lake Winnipeg,” Hann said. “It is probably one of the most poorly-studied large lakes in North America.”

Hann works with the Lake Winnipeg Research Consortium (LWRC), a group founded in 1998 to investigate and monitor the deterioration in the lake’s water quality following the 1997 flood. Made up of university researchers, government agencies, and corporate and stakeholder groups, the LWRC uses the former Canadian Coast Guard vessel Nanaimo to conduct research on the biological, chemical and physical processes that impact Lake Winnipeg.

Before the LWRC began its extensive research program, scientists had very little reliable data to work with.

“If you look at the background information we’ve got, Bajkov went out in his own private vessel in 1929 and collected samples,” Hann said. “The next really substantial study was done 40 years later, in 1969. After that, there were scattered little bits and pieces the Province did, but the next major biological study wasn’t until 1999.”

Beginning in 2002, the LWRC began conducting comprehensive research surveys of Lake Winnipeg in spring, summer and fall. Each expedition lasts up to a month, and researchers collect samples from 65 stations in the lake’s south basin, north basin and narrows. The stations are located using GPS coordinates to ensure that samples are being collected from the same place each time.

“Within our group, we’ve got people who are studying fish, zooplankton, phytoplankton (algae), bacteria, and water chemistry,” Hann said. “We’re trying to cover all aspects that are important to understanding this ecosystem.”

Even though the LWRC has only been collecting samples for a few years, it is clear to Hann and the other researchers that Lake Winnipeg is under serious stress.

“We’ve got significant eutrophication, or nutrient loading, which is a major stressor and a big, big problem,” she said. “There is nitrogen and phosphorus coming into the lake via the Red River, the Winnipeg River and the Saskatchewan River, as well as many of the smaller rivers from the east and west. Some of that is agricultural run-off, but a significant amount is coming in from sewage and waste water treatment plants that empty into the system.”

Climate change, leading to higher mean annual water temperature and changes in the duration of open water on the lake, is also a major concern. Lake Winnipeg is relatively shallow, with a mean depth of only 12 metres. As the climate warms, the amount of heat that enters the water increases. This, Hann said, increase the likelihood of periods of thermal stratification in the lake.

“You can have an upper layer that is very warm and a cooler layer at the bottom,” she said. “Until very recently, we never thought this happened in Lake Winnipeg because the lake is so shallow and seemingly well-mixed, but in 2003, which was a fairly warm year, we have strong evidence that the lake was stratified for as much as six weeks in mid-summer.” Associated with this stratification were very low concentrations of oxygen (hypoxia) in the bottom waters.

Hann’s own research is focused on the organisms that live in the bottom sediments of Lake Winnipeg, including worms and insects. She said stratification and hypoxia can have a major impact on these animals, and this can affect the delicate balance of life in the lake.

“All of these organisms can be affected, particularly insects that spend a good portion of their development time at the bottom. As they emerge up through the water column, they are fed upon voraciously by all of the fish species, so they make up a really big part of the fish diet. If you start to stress that base of the food web, it can have major consequences for the entire food chain.”

Nutrient loading and stratification also affect the competitive interactions among the different species of algae, causing algal blooms and further stressing the food chain.

“Let’s say you tip the balance in favour of blue-green algae,” Hann said. “There are a lot of things that won’t eat blue-greens, so a lot of that biomass in the upper layers ends up settling to the bottom and forming mats that stress the organisms there. Everything is connected, and if we think only about these two stressors, nutrient loading and climate change, they can interact and lead to serious consequences for the ultimate health of the lake.”

Hann said that invasive species, including rainbow smelt (already in the lake), and rusty crayfish and several species of zooplankton (not yet here) also are expected to have an impact on the lake’s ecosystem, compounding the larger problems caused by nutrient loading and climate change.

“Climate change. The water quality of Lake Winnipeg is equal to, if not worse than the water quality of Lake Erie 30 years ago,” she said. “Unlike Lake Erie, however, Lake Winnipeg seems to be under the radar, but should it be? We simply can’t ignore this anymore. We all have a stake in the future health of this lake...”

Brenda Hann
Department of Zoology
University of Manitoba

“I think there has been an increasing groundswell of interest and concern, but the problem is what will it translate into?”

On March 22, Brenda Hann will give a public presentation about her Lake Winnipeg research as part of the Get to Know Research at Your University speaker series. The presentation begins at 7:00 pm in the Smartpark boardroom at 135 Innovation Drive. Admission is free, and everyone is invited to attend.

Research News is published by the Office of the Vice-President (Research)
wwwumanitoba.ca/research

Brenda Hann, zoology, is studying the organisms that live at the bottom of Lake Winnipeg.

Bringing Research TO LIFE
Building bridges in agriculture

Manitoba Hutterite Colonies support National Centre for Livestock and the Environment

The future of agriculture in Manitoba is going to depend on cutting edge research and building bridges between rural and urban communities. Nobody understands that better than Manitoba’s Hutterite Colonies and they proved that on March 2 with the announcement of a $500,000 contribution to the new National Centre for Livestock and the Environment, with facilities under construction at the Glenlea Research Station south of Winnipeg and at the University of Manitoba campus.

“The Manitoba Hutterite Colonies are pleased to support the National Centre for Livestock and the Environment and the research opportunities it represents. As agricultural producers, they understand the need for sustainable solutions for the challenges in modern farming, from environmental concerns to animal welfare and food safety,” said Jerry Lupkowski of Meyers Norris Penny and representative for the Manitoba Hutterite Colonies. Lupkowski helped coordinate the donation with Hutterite colonies across the province. Jack Maendel, from the Oak bluff Colony, said initially he was skeptical about donating to the National Centre for Livestock and the Environment.

“At first when they asked us to join them I thought we couldn’t afford it,” Maendel said. “But once we listened to the presentation I realized we couldn’t afford not to support it.”

The National Centre for Livestock and the Environment is a University of Manitoba initiative that will address the issues facing intensive livestock agriculture at a whole farm or farm ecosystem level. The centre has a strong research mandate with the involvement of 30 scientists from a range of disciplines, including animal science, plant science, soil science, food science, biosystems engineering, microbiology and agricultural economics. Research will focus on achieving sustainable production systems that involve intensive animal agriculture by studying the interrelations with respect to environmental health, food safety, animal well-being, production efficiency and economy.

The Glenlea site is also the planned location for the Glenlea Farm Education Centre, an interactive showplace where visitors will learn about every aspect of livestock and crop production from farming practices to retail sales. With 30,000 visitors anticipated annually, the education centre will be a valuable food production experience for students of all ages.

Maendel said showing people how agriculture really works is key to the future of the industry. The Hutterite Colonies are major players in the agricultural economy, particularly in the Prairie provinces. They are leaders and innovators in management techniques in livestock production and crop production in Manitoba. Colonies are all located in rural areas, and as such have a vested interest in sustainable environmental practices, whether it is related to odour, water quality or access, or future land use options.

“More and more people look at agriculture as polluting the environment,” Maendel said. “We have to educate them. If you look at Manitoba’s Hutterite Colonies, they have been here for a long time and if you check around the colonies to see if they are contaminated you’ll find the land is in good shape.”

Most hog operations today are high health facilities, which means people are not allowed inside without showering first to prevent contamination of the animals. But the Glenlea Farm Education Centre will allow people to look directly into farm facility through a glass viewing wall, helping to demystify agriculture.

President Emike Szathmáry said the Hutterite Colonies and the university were natural partners for the project.

“We are delighted by this extraordinary gift in support of our university. The National Centre for Livestock and the Environment will be a world-class research and educational facility, thanks in no small part to the generosity and foresight of the Hutterite Brethren in Manitoba,” Szathmáry said.

“This project focuses on three areas of prime importance to our government: the ecological care and preservation of farmland, maintenance of high quality livestock production and public education as it relates to the agriculture industry and modern food production,” agreed Agriculture, Food and Rural Initiatives Minister Roxanne Wongchuk.

“We commend Manitoba’s Hutterite colonies for their generous donation and their strong community spirit that supports this initiative.”

Initial funding for the Centre was through a Canada Foundation for Innovation (CFI) grant and a Manitoba Research and Innovation Fund grant totaling $8.8 million for research infrastructure. It is currently the largest CFI grant ever given to the University of Manitoba.

Top, A group of pigs in one of the National Centre for Livestock and the Environment (NCLE) facilities at Glenlea Research Station; middle, from left, James Hofer, Starlite colony, and a director with the Manitoba Pork Council, Ron Friesen, Eastman Foods, and a member of the fundraising committee with the Hutterite Colonies chat with president Emike Szathmáry; bottom, a group tours a NCLE facility.

Photos by Dale Barbour and the Faculty of Agricultural and Food Sciences