Canada’s top research universities

The University of Manitoba maintained its position in 12th place among Canada’s top research universities according to Research Infosource Inc.’s latest poll.

The University of Manitoba received $126,493,000 in research funding in 2004. To put that figure into perspective, in 1999 the University of Manitoba was ranked 14th in Canada with just under $68 million in research funding – meaning that research funding has nearly doubled since then.

Breaking the 2004 figures down, the University of Manitoba received $108,900 per full-time faculty member in research funding.

Overall the University of Toronto remains Canada’s top research university, as far as funding goes, with a sponsored research income of just under $624 million. McGill University was second with $54.4 million in research funding, unseating Université de Montréal which has traditionally finished behind the U of T. McGill had the advantage of a nearly 60 per cent increase in funding to vault it past Montréal, which finished in third place with $416 million.

Overall Canada’s universities received over $5 billion in research funding in fiscal 2004, compared to $4.5 million the year before. Some 70 per cent of those research dollars come from government sources, 15 per cent from corporate sources, 12 per cent from non-corporate sources and the remaining amount from endowment/investment income.

Of the government sources, the federal government kicked in $2.35 billion towards research in 2004, the provincial governments supplied just over $1 billion and municipal governments supplied about $14.6 million.

Foreign funding of research at Canadian universities totaled $82.6 million in 2004.

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Meet the William Norrie Centre

The University of Manitoba has officially named its new Selkirk Avenue facility the William Norrie Centre.

Named in honour of the university’s 12th chancellor and longtime Winnipeg mayor, William Norrie Centre is home to the University of Manitoba’s Inner City Social Work ACCESS Program and to the William Norrie Centre.

The building reflects the University of Manitoba’s commitment to help

revitalize Winnipeg’s North End. The student population served by the Social Work and Education programs closely reflects that of the inner city. Approximately one half of the centre’s students are Aboriginal, one-quarter are recent immigrants or refugees, and one-quarter are survivors of poverty, racism, violence, childhood trauma or other challenges.

Designed by Prairie Architects, the William Norrie Centre is a visually unique facility that maximizes natural light and natural ventilation.


Born in St. Boniface in 1929, he attended schools in Winnipeg and entered United College at the University of Manitoba on an Isbister Scholarship. On completion of his Bachelor of Arts in 1950, he entered the University of Manitoba Law School and he served as president of the University of Manitoba Students’ Union.

See NORRIE/P. 3.

Guilty of helping the United Way

Security services officers Kurt Christoph and Naomi Green cuffed Physical Education and Recreation Studies dean Dennis Hrycaiko and threw him in jail on Thursday, Oct. 27 but it was all for a good cause – the University of Manitoba’s United Way team was holding a Jail and Bail to raise funds for the 2005 campaign.

Hrycaiko is co-chairing the campaign but he was caught flat-footed on this one. If you’re in University Centre this afternoon you can catch the United Way Rainbow auction draw.
More than 40 health researchers at the University of Manitoba have received a total of $11 million in new funding from the Canadian Institutes of Health Research (CIHR). The announcement was made at the Bannattane Campus on Oct. 16 by Reg Alcock, president of the Treasury Board and minister responsible for the Canadian Wheat Board.

“Today’s announcement will not only help attract and retain some of the best researchers to the province’s universities and research centres, but also ultimately lead to improved health for all Canadians.”

The funded projects will be conducted at the University of Manitoba and partner research institutions, including CancerCare Manitoba, the Saint Boniface General Hospital Research Centre, and the Health Sciences Centre. The studies will be carried out over periods of one to five years and they cover a wide spectrum of health research.

“Group represents a broad range of specialized knowledge,” said Joanne Keselman, vice-president (research) at the University of Manitoba. “These projects also highlight the importance of collaborative research. Whether it’s collaboration within a single laboratory, collaboration between laboratories, or collaboration between institutions nationally and internationally, our health researchers are sharing their expertise to advance knowledge in their fields.”

The researchers who received new CIHR funding included:

- Rheumatology Research Chair Hani El-Gabalawy, internal medicine/immunology, who is studying rheumatoid arthritis in First Nations peoples.
- Brita Hall, recipient of the Female Athlete of the Year Award, resides in Winnipeg, Manitoba. Throughout her involvement over the past 25 years, Brita has excelled at all levels of Special Olympics Canada and is a two-time Olympian. She won a gold medal in Alpine Skiing. Since then Brita has gone on to compete at other National Games including Vancouver 1999, Saskatoon 1992, a silver medal, Halifax 1994, a bronze medal. Calgary 1996, two gold medals. Sudbury 1998, three gold medals. Ottawa 2000, a gold and silver medal (7.5 km and 10 km). Prince Edward Island 2004, three gold medals. Brita has also excelled at the International Games including Sledming, three gold medals; Toronto 1997, a gold medal. North Carolina 1999 and most recently the 2005 Games in Nagano where she won one gold (10 km) and two silver medals (7.5 km & 4 by 1 km relay) in cross country skiing. It was in Nagano where she beat her next best competition in the 10 km race by 15 minutes. When Brita is not training she can be found at the University of Manitoba where she works as an office assistant. Brita is a leader among her peers and is often seen helping her athletes prepare for a big race. Brita always lights up a room with her infectious smile and through sheer hard work and determination continues to set new standards on the track and cross country trails.

Classified Ads

The Bulletin welcomes Classified Ads. The rate for ads is $5 for the first 45 words.

For sale “Perfect Visual Flaeness” Samsung SyncMaster 793MB CRT Monitor “MagicBright” – 17” Display (10 460 cm Viewable) – 0.29mm (H) Dot Pitch – 1280x1024 (N) Max. Resolution – w:packing box, software, etc. – used for six months – selling because of upgrades - $120 OBO – Call Jerry, 474 8409 campus, 261-5853 home.

Remembrance Day ceremony

Don’t forget about Remembrance Day! The University of Manitoba will hold its annual Remembrance Day Ceremony on Thursday, Nov. 10, 11 a.m. in Marshall McLuhan Hall, 204 University Centre. Everyone welcome.
“Small” technology with huge business potential

BY FRANK NOLAN

For The Bulletin

The structures and devices may be very small, but nanotechnology is big business.

The biomedical applications of nanotechnology were the subject of a presentation given at Smartpark on Oct. 27 by Stephane Evoy, assistant professor of electrical and computer engineering at the University of Alberta. The event was the first of this year’s “Smartpark Interactive Breakfast Series” public presentations.

By technological advances have given scientists the ability to create structures and devices measuring from one to 100 nanometers in size (a nanometre is one billionth of a metre).

“Nanotechnology is an enormous field,” Evoy said. “It involves controlling matter at such a scale that unique phenomena arise which might not be available at any other level, perhaps on the quantum level.”

Evoy is group leader in nanotechnology and nanodevices at the National Institute for Nanotechnology. His presentation focused on emerging biomedical applications of nanotechnology, including nanoparticles and biotagging, biomimetics and drug delivery, and biosensors.

“In the biosensor field, for example, there is already a significant market for conventional technologies,” he said. “By 2006, the biosensor industry is expected to be worth about $2 billion, and nanobased biosensing technology will have a $38 million share of that market.”

Evoy described current nanobiotechnology as the result of a “big bang” created when engineers, chemists and biologists started working together.

This year student advocacy is facilitating a huge business potential for U of M Bookstore gift certificates for those who attend. This workshop is offered with the support of the Faculty of Graduate Studies and the Learning Assistance Centre. To register, contact student advocacy at Student_Advocacy@umanitoba.ca.

Events include:
• Workshops for graduate students called Writing and Citing: The Challenges of and Citing Correctly in an attempt to address issues of plagiarism.
• Student advocacy is facilitating a workshop through University Teaching Services called Academic Integrity: Creating a Culture of Integrity on Nov. 14, from 1 to 4 p.m. Students can register through University Teaching Services, or phone 474-6958.
• Specialized events for residence students.

It’s a super Tuesday

There’s no better time to stay inside and get informed then on Nov. 15 when the university presents two of its keynote lectures.

The third annual Sol Kanee Lecture on Peace and Justice presents Rabbi Michael Melchior, Deputy Minister of Education, Culture, and Sport, and Member of Knesset, Israel with a lecture entitled The World at a Crossroads: Dialogue and Coalition-Building between Religions and Cultures. Melchior will speak in the multi-purpose room Second Floor University Centre, at 1:30 p.m., Tuesday, Nov. 15.

The Sol Kanee Lecture is presented by the Arthur V. Mauro Centre for Peace and Justice. Melchior is a recognized international leader in the promotion of world peace and interfaith dialogue. He established the Citizen’s Accord Forum between Jews and Arabs in Israel, which campaigns for the correction of injustices against Israel’s Arab minority.

From peace and justice, people can move on to the Seventh Templeton Lecture on Democracy featuring the Right Honourable Joe Clark and a lecture entitled American Style Lobbying and Canadian Style Governing: Adding to the Democratic Deficit. Clark will be speaking at the Muriel Richardson Auditorium. The Winnipeg Art Gallery, 8 p.m., Tuesday, Nov. 15.

Clark served in Parliament for 25 years, retiring in June 2004. He was Prime Minister of Canada in 1979-80, Secretary of State for External Affairs (Foreign Minister) from 1984-1991, Minister of Constitutional Affairs from 1991-1993, and Acting Minister of both National Defence and Justice.

The Templeton Lecture on Democracy is sponsored by the University of Manitoba out of the generous Cannon Templeton. An engineer, Templeton attended hundreds of municipal council meetings in the city, demonstrating respect for democracy at work at the municipal level. Templeton died October 2004.

For more information on upcoming lectures check out the Events Pages in this week’s bulletin.
From left, TD Commercial Banking vice-president Kevin Werner, U of M vice-president (administration) Debbie McCallum, and TD Commercial Banking relationship manager Ray Kohanik plant one of several trees that TD donated to the University of Manitoba for the Duckworth Quadrangle. The U of M has a tradition of planting trees in the Duckworth Quadrangle to honour members of the university community. The trees donated by TD will replace some of these special trees that were damaged or dead.

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**Bison players will benefit from Rempel scholarship**

BY CHRIS ZUK
Bison Sports Information Officer

Bison women’s hockey head coach Jon Rempel’s mother Shirley Rempel passed away at the age of 60 from brain cancer last November. It has been a difficult adjustment for his family to have someone so dear taken from them at such a young age. However, in order to help turn something so devastating into something positive, the Rempel family has set up a memorial scholarship in Shirley Rempel’s name that will be given out to two Bison players every year.

Shirley Rempel was a huge proponent of post-secondary education and she would have really enjoyed watching Jon coach. This award will keep her memory alive and at the same time help support female students as they work towards university degrees.

In order to ensure that the award will be sustainable for many years to come, Jon has organized a fundraising night to help augment the fund and make it sustainable over time. Even though Jon, his wife, father, and sister and brother-in-law will be contributing to the fund every year, for the foreseeable future, there may be a time when they can’t do that and they would like the award to remain and grow even if that happens at some point.

The Shirley Rempel Memorial Scholarship fundraiser will take place Thursday, November 17 at the Niakwa Golf and Country Club from 6 to 10 p.m. and will be fairly informal. A portion of the proceeds from the evening will also be donated to Cancer Care Manitoba.

The guest speaker will be Mark Chipman from the Manitoba Moose who also lost his mother to cancer last February and has three daughters playing hockey. Chipman is a well-respected businessman, community person and hockey figure in the province and is a great fit for the evening.

Jon will also speak a bit about the award, about who his mom was and why his family thinks the award is important. A representative from Cancer Care Manitoba will be on hand to speak about the great things they are doing to help patients and their families in the ongoing fight against Cancer.

The evening kicks off with cocktails, mingling and wine-tasting at 6 p.m. The formal part of the evening will begin at 6:30 and last for about 45 minutes. There will also be more wine tasting, a sports memorabilia auction, door prizes, and great food throughout the night.

The evening will conclude with the presentation of the first Shirley Rempel Memorial Scholarship Award. Tickets are $60 each or a table of 8 for $450 and a tax receipt will be issued (that amount is still to be determined).

For more information, contact women’s hockey head coach Jon Rempel at 474-7492.

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**BISON WOMEN’S BASKETBALL IN TOP FIVE**

In the first Canadian Interuniversity Sport (CIS) women’s basketball rankings of the 2005-06 season, the Manitoba Bison team has been ranked in the top 5 with a spot at number five.

The team is looking to build on last season’s 11-9 record in the Great Plains Division of the Canada West Conference. The squad lost in the Canada West Divisional Semi-Final by 2-1 games at Regina.

The Canada West conference has dominated CIS women’s basketball in recent years claiming the last 14 national banners, and sees no less that seven of its members on the opening Top 10 list.

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**The Centre for Professional and Applied Ethics**

Presents

**Journalistic Ethics in Two Parts**


- author of Cowboys and Indians
- National Newspaper Award Winner
- Manitoba Human Rights Award for his coverage of the police shooting of aboriginal leader J.J. Harper.

When: Monday, 7th November, 12:30-1:30
Where: Concourse Lounge, University College

Everyone welcome. Coffee and cookies served.

(2) “Journalistic Ethics: Hahaha” by Lesley Hughes, journalist, columnist, broadcaster

When: Wednesday, 9th November, 12:30-1:30
Where: Concourse Lounge, University College

Everyone welcome. Coffee and cookies served.

Co-sponsored by the University College Activities Committee

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**The Seventh Templeton Lecture on Democracy**

Joe Clark
public lecture

American Style Lobbying and Canadian Style Governing: Adding to the Democratic Deficit

Mr. Clark served as Canada’s 16th prime minister. Admired and respected for his devotion to public service, his unimpeachable integrity and, not least, for a self-deprecating sense of humour. Mr. Clark was elected to Parliament eight times over 25 years. In addition to serving as prime minister in 1979-80 he was secretary of state for external affairs, minister of constitutional affairs, acting minister of both national defence and justice.

He was twice leader of the opposition, and twice national leader of the Progressive Conservative Party. During his second period as Progressive Conservative Leader, he was widely regarded as the most effective opposition leader in the House. Mr. Clark is president of an international consulting firm, who has a tax receipt will be issued (that amount is still to be determined).

For more information, contact women’s hockey head coach Jon Rempel at 474-7492.

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**The Winnipeg Art Gallery Muriel Richardson Auditorium Tuesday, November 15, 8 pm**

Tuesday, November 15, 8 pm
Muriel Richardson Auditorium
The Winnipeg Art Gallery

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**Advertise in The Bulletin.**
For details call 474 8111
Department of Sociology

Position: professor
Start date: Jan. 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 15, 2006
Position number: 02790
For information: Dr. S. Brickey, head, department of sociology, University of Manitoba Libraries, Winnipeg, MB, R3T 2N2. 

Department of Clinical Health Psychology

Position: Clinical child psychologists
Start date: Jan. 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 15, 2006
Position number: 02072
For information: Dr. Erwin Huebner, head, department of psychology, Faculty of Medicine, University of Manitoba, Winnipeg, MB, R3T 2N2, e-mail ehuebner@cc.umanitoba.ca.

Faculty of Dental Health Science

Position: associate professor/aboriginal scholar
Start date: July 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 15, 2006
Position number: ALK 892
For information: Dr. Karen Duncan, chair of selection committee, department of family social sciences, Faculty of Dental Health Science, University of Manitoba, Winnipeg, MB, R3T 2N2, phone 474 6702, fax 474 7922, e-mail kduncan@cc.umanitoba.ca.

Faculty of Family Social Sciences

Position: assistant professor
Start date: July 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 6, 2006
Position number: ALK 671
For information: Dr. Anne Percival, Dean, Continuing Education Division, University of Manitoba, Winnipeg, MB, R3T 2N2, phone 474 8010, e-mail aprcival@cc.umanitoba.ca.

Faculty of Human Ecology

Position: assistant professor/aboriginal scholar
Start date: July 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 16, 2006
Position number: MA248
For information: Dr. Nancy Chow, head, department of geographical sciences, University of Manitoba, Winnipeg, MB, R3T 2N2, phone 474 9731, fax 474 7625, e-mail n_chow@umanitoba.ca.

Faculty of Human Ecology

Position: associate professor
Start date: Jan. 16, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Jan. 9, 2006
Position number: MA693
For information: Carolynne Presser, director of libraries, The University of Manitoba Libraries, Winnipeg, MB, R3T 2N2.

FACULTY OF MEDICINE

Position: clinical child psychologists
Start date: Jan. 3, 2006
Salary: An attractive salary schedule is available and in addition, the GFT agreement provides for on-site private practice opportunities.
Application deadline: Dec. 3
Position numbers: AKR 657 and AEM 648
For information: Dr. Robert McIwraith, department of clinical health psychology, Faculty of Medicine, University of Manitoba, P.O. Box 771, Bannatyne Ave., Winnipeg, MB, R3E 3N4, phone 787-7424, fax 787-3575, e-mail bmclwraith@hsc.mb.ca.

FACULTY OF SCIENCE

Position: Tier II Canada Research Chair in Genomics at the rank of assistant or associate professor
Start date: July 1, 2006
Salary: Commensurate with experience and qualifications
Application deadline: Jan. 6, 2006
Position number: ANK 692
For information: Dr. Karen Duncan, chair of selection committee, department of family social sciences, Faculty of Dental Health Science, University of Manitoba, Winnipeg, MB, R3T 2N2, phone 474 6702, fax 474 7922, or e-mail kduncan@cc.umanitoba.ca.

THE UNIVERSITY OF MANITOBA LIBRARIES

Position: Integrated library systems manager
Start date: Jan. 1, 2006
Salary: Commensurate with qualifications and experience
Application deadline: Nov. 30
Position number: MA793
For information: Janice Risling, e-mail jrisling@cc.umanitoba.ca.

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History professor emeritus Keith Sandiford spent his academic career studying Victorian England, but now that he’s retired he has turned his efforts to writing about his other passion: cricket.


“Cricket at Kensington is about one of our most famous arenas in the Caribbean, the equivalent to Maple Leaf Gardens in Canada,” Sandiford said. And Kensington has met much the same fate as Maple Leaf Gardens, it has been demolished to make way for a new cricket stadium that will open in time to host the Cricket World Cup in 2007.

The book also traces the highs and lows of cricket in Barbados.

Between 1935, the year before I was born, and 1994 the West Indies did not lose a single test match at Kensington,” Sandiford said. “It was known as Fortress Fortabelle because people couldn’t see our run there.”

The wheels started to fall off the cart in 1994 though when the West Indies team entered a rebuilding phase. Sandiford also traces the evolution of records at Kensington and what he finds is that the records being set increased at a steady clip until about 1952.

Most of the records are very old. The highest score ever recorded was 753 in 1952, but that’s over 50 years old,” Sandiford said. “The fact is that a score of 754 (1952) is very hard to beat; and, at the other end of the scale, 16 as the lowest score (1942) will never be equalled – now that the pitches are covered. In the old days, when it rained, batting was enormously difficult on ‘sticky wickets’ as they were called. So some of these old records are almost unbreakable.”

Sandiford, through his own research, places the blame for Barbados’ cricket craze squarely on the shoulders of the education system, since all of the island’s headmasters sincerely believed that cricket and education possessed certain magical qualities capable of manufacturing fine citizens as well as excellent scholars. The result is that Barbados, over the years, has produced more great cricketers per square mile and per capita than any other part of the globe.

**Books by University Staff**

**BY DALE BARBOUR**

The Bulletin

History professor emeritus Keith Sandiford is hooked on cricket, no question about it.

“I’m a typical Barbadian, most of my life has been dedicated to cricket,” Sandiford said. “Cricket is to Barbados what hockey is to Canada, what soccer is to Brazil. It’s not really a sport. It’s a religion; it’s a way of life, it’s a matter of life and death, it’s, well, you get the idea.”

But while he was born in Barbados, Sandiford received his MA and PhD from the University of Toronto and has spent his academic career in Canada, including teaching British history at the University of Manitoba from 1966 until he retired in 1998.

Throughout that time, Sandiford focused his professional writing on Victorian English and produced works such as Great Britain and the Schleswig-Holstein Question 1848-64: A Study in Politics, Diplomacy, and Public Opinion.

But every time he traveled to England to do his research he found himself pouring over the sports pages and started to write about cricket.

“In the end I decided to write a book, Cricket and the Victorians,” Sandiford said. And when he retired from the university in 1998 it only opened doors to writing about cricket full-time resulting in At the Crease with Gary Sohers: His Partnerships in Test Cricket. The Three Ws of West Indian Cricket: A Comparative Batting Analysis, 75 Years of West Indies Cricket.

He can’t help it, Sandiford is mad about cricket. It’s a way of life, it’s a matter of life and death, it’s, well, you get the idea.”

The Price Comparisons

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<tr>
<th>Product</th>
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<td>Long Day’s Journey into Night by Eugene O’Neill</td>
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... and lots more!

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He can’t help it, Sandiford is mad about cricket.
You can have a say in health and safety policy

A Day in the Life of the Health and Safety Committee

BY DALE BARBOUR The Bulletin

The catchphrase is “Safety is everybody’s business.”

And at the University of Manitoba, the workplace health and safety advisory committee helps ensure everyone has their say in keeping the university safe.

“The committee has representatives from every organization at the university,” committee co-chair Linda Lavallee said. That list of organizations includes everything from the University of Manitoba Students’ Union to the various unions on campus. Most specialized units on campus, such as dentistry and medicine, have their own safety committee but still send a representative to the central advisory committee.

The committee works with the environmental health and safety office, and makes its recommendations to the executive director of human resources. Its goal is really to act as a stepping stone for making changes at the university.

“It provides a way for people to get the university’s attention,” committee co-chair John Rohs said. “As a member of AESES (the Association of Employees Supporting Education Services) I can bring forward the concerns of AESES members to the committee and from there to the university. It works the same as it did with the other groups involved.”

The committee is required by provincial regulations, but the university goes beyond what the province asks for. While it’s required to meet every three months, Rohs said they usually meet every two months and there’s talk of increasing that workload.

Typically the advisory committee acts as a forum for discussing health and safety issues on council. Once everyone has had their say, the committee comes up with a proposal and forwards it on to upper administration, which has the final say on whether the suggestion becomes policy.

“We initiate many of the changes at the university that people see but don’t know where they came from,” Lavallee said. The university’s current smoking rules, which require that people step back 25 feet from a building entrance before lighting up a cigarette, is one example. The policy was discussed at the advisory committee before being approved by the university. Similarly, the committee initiated the university’s Code Blue telephone alert system and played a role in developing the asbestos management plan on campus, which includes a system for alerting people when asbestos removal is taking place in any given building on campus.

“We also do a campus wide audit where we look for campus danger spots, typically areas with bad lines of sight,” Rohs said. The audits happen every few years and can involve 200 or 500 volunteers ranging around campus in an effort to spot potential problems.

“It worked great the last time we did it. Physical plant jumped on the problem areas right away,” Lavallee said.

Robs and Lavallee are also called in when major incidents or accidents happen at the university, giving them the opportunity to take their views of what happened back to the committee to see if the university should be doing things differently.

Robs and Lavallee have both been on the advisory committee for about six years and have co-chaired the committee for the last four years.

Rohs refers to it as a combination of a “worker bee” and management. In their day jobs he works in library administration and Lavallee is assistant director of security services.

People who do have safety concerns about the campus are welcome to call the Environmental Health and Safety office at 474 6635 or Security Services to make their concerns known 474 9312.

get to know research at your

Dr. Peter Jones, Director, Richardson Centre for Functional Foods and Nutraceuticals

Are Functional Foods on your grocery list?

Did you ever wonder why there’s been so much hype lately about Omega 3 enriched foods? Do you find yourself buying these enriched or ‘functional’ foods without even knowing why they’re good for you? Manitobans are making healthier food choices, but we often get conflicting messages about what’s good, what’s not and why. Find out what functional foods are all about by joining us for an informative discussion about this innovative area of nutritional research.

Wednesday, November 16, 7:00pm, Smartpark Lobby Boardroom 135 Innovation Drive, Fort Garry Campus

Everyone welcome:

www.umanitoba.ca/research 474-9020 FREE ADMISSION FREE PARKING

Remember, it’s YOUR Bulletin!

The Bulletin welcomes: news tips, letters to the editor, photo ideas, story ideas and event submissions.

For information call 474 8111
Bison
Sports

FOOTBALL
Nov. 5 – Canada West Semi-Finals, time and location TBA.
Nov. 12 – Canada West Finals, time and location TBA.

MEN’S HOCKEY
Nov. 4 – Calgary at Manitoba, Max Bell, 7 p.m.
Nov. 5 – Calgary at Manitoba, Max Bell, 7 p.m.

MEN’S BASKETBALL
Nov. 18 – Calgary at Manitoba, Investors Group, 8 p.m.
Nov. 19 – Calgary at Manitoba, Investors Group, 8 p.m.

MEN’S VOLLEYBALL
Nov. 11 – Alberta at Manitoba, Investors Group, 8 p.m.
Nov. 12 – Alberta at Manitoba, Investors Group, 8 p.m.

WOMEN’S HOCKEY
Nov. 11 – Regina at Manitoba, Max Bell, 7 p.m.
Nov. 12 – Regina at Manitoba, Max Bell, 7 p.m.
Nov. 18 – Bison Alumni at Manitoba, Max Bell, 6 p.m.
Nov. 19 – Bison Alumni at Manitoba, Max Bell, 5 p.m.

WOMEN’S VOLLEYBALL
Nov. 4 – Winnipeg at Manitoba, Investors Group, 4 p.m.
Nov. 5 – Manitoba at Winnipeg, Investors Group, 6 p.m.
Nov. 11 – Brandon at Manitoba, Investors Group, 6 p.m.
Nov. 12 – Brandon at Manitoba, Investors Group, 6 p.m.

WOMEN’S BASKETBALL
Nov. 18 – Calgary at Manitoba, Investors Group, 6:15 p.m.
Nov. 19 – Calgary at Manitoba, Investors Group, 6:15 p.m.

TICKET INFORMATION
Single Game
Adults: $8
Students: $5
12 and under: free
Season passes
Adults: $1
Student: $50
Tickets available at all Bison home games, Frank Kennedy, Max Bell Equipment Desk.

www.umanitoba.ca/bisons/

Bannatyne Campus
AND ST. BONIFACE RESEARCH CENTRE

Events Listing Plus

Black Hole season begins

The Black Hole Theatre Company kicks off its 2005/06 season with an evening of two one-act plays. No Exit by Jean Paul Sartre and The Bald Soprano by Eugene Ionesco. The plays run Nov. 15 to 19 and 22 to 26. Noted for its quintessential French drama about human existence, freedom and morality. Written by one of the twentieth century’s greatest writers and philosophers, Nobel Prize winner Jean-Paul Sartre, No Exit is THE modernity play. The Bald Soprano is “a comedy of comedies.” An anti-play that popularized the theatre of the absurd movement, this was also Ionesco’s first play.

Written as a reaction to his experiences while trying to learn English while living in Paris, Ionesco presents a story which, at first, appears to offer up a traditional narrative but soon devolves into what can only be described as a nonsensical “circus of the mundane” with a special guest appearance by the fire chief. Performances take place at 8 p.m., Nov. 15 to 19 and 22 to 26 in the Black Hole Theatre, University College, Fort Garry campus. There is free evening parking adjacent to the theatre.

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

FRIDAY, NOVEMBER 4

Neuroscience Grand Rounds, Genetics of Parkinsonism, PARK6/20 Genetics Laboratory Zhiguenew Wozaole, Mayo Clinic, Theatre B, Basic Medical Sciences Building, 8 a.m., Friday, Nov. 4.

Pharmacology and Therapeutics, More Than One Type of Muscular Dystrophy in Hutterites? by Klaus Wrogemann, A229 Chown Building, 9 a.m., Friday, Nov. 4.

Respirology Rounds, Inflammation in the Cystic Fibrosis Lung by Thomas W. Ferkol, associate professor, department of pediatrics, Washington University School of Medicine, 500 John Buhler Research Centre, 12:15 p.m., Friday, Nov. 4.

Medical Genetics Academic Session, The use of DHPLC in BRCA1 and BRCA2 genetic testing by Beth Sriggs, CH 181/183 Children’s Hospital, 840 Sherbrook Ave., 3:15 p.m., Friday, Nov. 4.

MONDAY, NOVEMBER 7

National Training Program in Allergy and Asthma Research Debate, is steroid therapy a useful approach to treating asthma? with Stéphane Espino, PX236/238 PsycHealth Building, 8 a.m., Thursday, Nov. 10.

Psychology Workshop, Workshop on Epidemiology: Structural Equation Modeling in Health Research, Samuel Weiner distinguished visitor Peter M. Bentler, professor of psychology, University of California, Los Angeles, Theatre B Basic Medical Sciences Building, 9:30 a.m., Wednesday, Nov. 9.

Biochemistry and Medical Genetics, Characterizing the role of Hyaluronidase in hyaluronan degradation by Dianna Martin, PX236/238 PsycHealth Building, 12:15 p.m., Wednesday, Nov. 9.

THURSDAY, NOVEMBER 10

Pediatric Grand Rounds, Assessing Children’s Pain By Observation and By Self-report by Carl L. von Baeyer, professor of psychology, associate member in pediatrics, department of psychology, University of Saskatchewan, Theatre A Basic Medical Science Building, linked to BG002 St. Boniface Hospital, 8 a.m., Thursday, Nov. 10.

Pediatric Discussion Group, What’s New in Contraceptives by Margo Lane, PX236/238 PsycHealth Building, 12:15 p.m., Wednesday, Nov. 16.

Biochemistry and Medical Genetics, Activation of the Ras-MAPK pathway in human Breast Cancer Cells by Paula Espino, PX236/238 PsycHealth Building, 12:15 p.m., Wednesday, Nov. 16.

THURSDAY, NOVEMBER 17

Immunology, Role of host protein tyrosine phosphatases (PTP) in the modulation of innate immune response by the protozoan parasite Leishmania by Martin Olivier, Centre for the Study of Host Resistance, McGill University, Thompson General Hospital and Brandon Regional Health, 7:45 a.m., Wednesday, Nov. 9.

Biochemistry and Medical Genetics, The Bald Soprano rehearse a scene from the Bald Sopranos

WEDNESDAY, NOVEMBER 9

Obstetrics, Gynecology and Reproductive Sciences Grand Rounds, Children Having Children, A Closer Look At Teenage Pregnancy in Manitoba by Amber Darad, resident, obstetrics and gynecology and reproductive sciences, Theatre A, Basic Medical Sciences Building with links to NG002 Nursing Building, St. Boniface General Hospital, Thompson General Hospital and Brandon Regional Health, 7:45 a.m., Wednesday, Nov. 9.

Obstetrics, Gynecology and Reproductive Sciences Grand Rounds, Dystrophy in Hutterites? by Klaus Espino, PX236/238 PsycHealth Building, 8 a.m., Thursday, Nov. 10.

Pediatric Grand Rounds, Assessing Children’s Pain By Observation and By Self-report by Carl L. von Baeyer, professor of psychology, associate member in pediatrics, department of psychology, University of Saskatchewan, Theatre A Basic Medical Science Building, linked to BG002 St. Boniface Hospital, 8 a.m., Thursday, Nov. 10.

Pediatric Grand Rounds, Memory for pain important antecedents and important consequences by Carl L. von Baeyer, professor of psychology, associate member in pediatrics, department of psychology, University of Saskatchewan, 500 John Buhler Research Centre, 12:15 p.m., Thursday, Nov. 10.

Pediatric Research Rounds, Memory for pain important antecedents and important consequences by Carl L. von Baeyer, professor of psychology, associate member in pediatrics, department of psychology, University of Saskatchewan, 500 John Buhler Research Centre, 12:15 p.m., Thursday, Nov. 10.

FRIDAY, NOVEMBER 10

Immunology, Surviving B cell malignancies: Translating new discoveries into effective treatments by Spencer Gibson, Manitoba Institute of Cell Biology, University of Manitoba, Immunology Laboratory 604 605, Basic Medical Sciences Building, 12 p.m., Thursday, Nov. 10.

IMMUNOLOGY, REVIEW OF THE ROLE OF HOST PROTEIN TYROSINE PHOSPHATASES (PTP) IN THE MODULATION OF INNATE IMMUNE RESPONSE BY THE Protozoan parasite Leishmania by Martin Olivier, Centre for the Study of Host Resistance, McGill University, Thompson General Hospital and Brandon Regional Health, 7:45 a.m., Wednesday, Nov. 9.

Biochemistry and Medical Genetics, The Bald Soprano rehearse a scene from the Bald Sopranos

WEDNESDAY, NOVEMBER 16

Obstetrics, Gynecology and Reproductive Sciences Grand Rounds, Dystrophy in Hutterites? by Klaus Espino, PX236/238 PsycHealth Building, 8 a.m., Thursday, Nov. 10.

Immunology, Role of host protein tyrosine phosphatases (PTP) in the modulation of innate immune response by the protozoan parasite Leishmania by Martin Olivier, Centre for the Study of Host Resistance, McGill University, Thompson General Hospital and Brandon Regional Health, 7:45 a.m., Wednesday, Nov. 9.

Biochemistry and Medical Genetics, Activation of the Ras-MAPK pathway in human Breast Cancer Cells by Paula Espino, PX236/238 PsycHealth Building, 12:15 p.m., Wednesday, Nov. 16.

FRIDAY, NOVEMBER 17

Community Health Sciences, Safer Cruck Use Kits - Harm Reduction in Action by Margaret V. Fast, medical officer of health, Winnipeg Regional Health Authority, pediatrics, medical microbiology and community health sciences and Debbie Nowicki, communicable disease program specialist, Winnipeg Regional Health Authority, microbiology, Dr. Betty Havens Seminar Room, R060 Medical Rehabilitation Building, 771 McDermot Ave., 12 p.m., Friday, Nov. 18.

Advertise in The Bulletin. For details call 474 8111

8 Bulletin
November 3, 2005

UNIVERSITY OF MANITOBA

From left, Jules Laboucane, Jon Sanderson, Alexis Martin and Jason Boissonneault rehearse a scene of The Bald Soprano.
Fort Garry Campus

THURSDAY, NOVEMBER 3
Leadership Technologies Centre, Inquiry and Blended Learning by Randy Garrison, professor and director, Learning Commons, and Norm Vaughan, instructor and coordinator, Learning Commons, University of Calgary, E2 -150 Engineering Building, 12 p.m., Thursday, Nov. 3.

Law Life After Law School, The Story of the Jers by Barry Shenkarow, Moot Court, Robson Hall, 12 p.m., Thursday, Nov. 3.

Mathematics, On Mahid rig Methods by Qianqiang Cuan, Chinese Academy of Sciences, 418 MacPhail Hall, 2:30 p.m., Thursday, Nov. 3.

Microbiology, Membrane vesicles traffic signals and facilitate group activities in a prokaryote, Crystal Berry, graduate student, 527 Dufferin Building, 1:30 p.m., Thursday, Nov. 3.

Bets 2005 Lectureship in Chemistry, Nanochemistry Nanomaterials Nanotechnology, Air Crystals – Part 1, Liqherbased stabilization and erosion control bioengineering options by Victor Lee and Don Kingerlski, 221 Wallace Building, 2:30 p.m., Friday, Nov. 4.

Bets 2005 Lectureship in Chemistry, Nanochemistry Nanomaterials Nanotechnology, Air Crystals – Part 2, Mesocellular Materials by Geoffrey A. Ozin, Canadian Research Chair in Materials Chemistry, Department of Chemistry, University of Toronto, 108 St. Paul’s College, 7:30 p.m., Thursday, Nov. 3.

FRIDAY, NOVEMBER 4
Clayton H. Riddell Faculty of Environment, Earth, and Resources, Protecting Manitoba’s waterways – riverbank stabilization and erosion control bioengineering options by Victor Lee and Don Kingerlski, 221 Wallace Building, 2:30 p.m., Friday, Nov. 4.

Botany and Zoology, Optimum Poppy – Blueprint for an Alkaloid Factory by Peter Facchinii, professor and Canada Research Chair in Plant Biotechnology, department of biological sciences, University of Calgary, Z201 Duff Roblin Building, 3 p.m., Friday, Nov. 4.

SUNDAY, NOVEMBER 6
Centre for Heiinic Civilization Ancient Assembly Lecture for Dr. A. The Greek Diaspora in the Black Sea Area by Thony Connors, American University in Armenia, 237 University College, 3 p.m., Sunday, Nov. 6.

MONDAY, NOVEMBER 7

Family Social Sciences, Everything you wanted to know about gangs in Winnipeg but were afraid to ask by Constable Ortiga, Winnipeg Police, 206 Human Ecology Building, 6:30 p.m., Monday, Nov. 7.

Samuel Weiner Distinguished Lecture, Structural Equaion Models: Improving or Misleading Science? by Peter M. Bentler, department of psychology, University of California, Los Angeles, 122 Drake Centre, 7 p.m., Monday, Nov. 7.

TUESDAY, NOVEMBER 8
Animal Science, Utilization of Cassava Foliage as Ruminant Feed by Tofuko Woyengo, 219 Animal Science/Entomology Building, 10 a.m., Tuesday, Nov. 8.

Soil Science, Synchronon Radiation based XAS in Phosphorus Speciation of Organic Amendments by Babasola Ajiboye, PhD Student, soil science, 344 Soil Science, 12:30 p.m., Tuesday, Nov. 8.

Psychology, Workshop on EQS 5.1: Structural Equation Modeling in Psychology, Samuel Weiner Distinguished Visitor Peter M. Bentler, psychology University of California, Los Angeles, 370 Helen Glass Building, 7 p.m., Tuesday, Nov. 8.

WEDNESDAY, NOVEMBER 9
Native Studies, Establishing an ecological reserve on the Brokenhead First Nation by Carl Smith, president of the Manitoba Model Forest Association, 307 Tier Building, 12:30 p.m., Wednesday, Nov. 9.

The Centre for Professional and Applied Ethics: Journalistic Ethics in Two Parts, Journalistic Ethics: Hahana by Lesley Hughes, journalist, columnist, broadcaster, Concours Lounge, 237 University College, 12:30 p.m., Wednesday, Nov. 9.

Centre for Heiinic Civilization, Hypothenised: A survey of Greek-American and Greek-Canadian Fiction by John Danaks, Moot Court Room, Robson Hall, 7:30 p.m., Wednesday, Nov. 9. (Note: event was rescheduled from Oct. 25.)

Continued on Page 10.
From Page 9.

THURSDAY, NOVEMBER 10
Computer Science, Parallel Scheduling: Scheduling Bursting Packets by Mike MacGregor, University of Alberta, E2-461 Engineering and Information Technology Complex, 1 p.m., Thursday, Nov. 10.

Advanced Plant Science Seminar Series, Genetic mapping of the Dutch elm disease pathogens by Mathieu Dunabanyagyi, plant science, Carolyn Sifton Lecture Theatre, 150 Agriculture Building, 3:30 p.m., Thursday, Nov. 10.

Microbiology, An mRNA is capped by 2', 5' lariat catalyzed by a Group I-like ribosyme by Jyothi Nethravatam, graduate student, 527 Buller Building, 3:30 p.m., Thursday, Nov. 10.

Institute for the Humanities Book Discussion Forum: “Thinking Out Loud” featuring a discussion of Steven D. Levitt’s and Stephen J. Dubner’s “Freakonomics” with CBC’s Jerry MacLeod, Host of Information Radio 990, as well as debate and discussion. The University encourages applications from qualified women and men, including individuals with disabilities, members of visible minority groups, members of Aboriginal peoples of Canada, persons who identify as non-binary, and LGBTQ2S+. The specific field mentioned above for which you are applying should be sent to: Human Resource Department, University of Manitoba, Room 309 Administration Building, 455 Portage Avenue, Winnipeg, Canada R3T 2N2.

Monday, November 7, 2005 to April 30, 2006:
The University of Manitoba invites applications for up to 100 tenure-stream (assistant, associate or full professor) positions in all Faculties and Schools. The University encourages applications from qualified women and men, including individuals with disabilities, members of visible minority groups, members of Aboriginal peoples of Canada, persons who identify as non-binary, and LGBTQ2S+. The specific field mentioned above for which you are applying should be sent to:
Kathy Niziol, Academic advancement, Human Resource Department, University of Manitoba, Room 309 Administration Building, 455 Portage Avenue, Winnipeg, Manitoba, Canada R3T 2N2.

Events Listing

WEDNESDAY, NOVEMBER 15
Native Studies, Indigenous peoples and their literatures in Taiwan, Terrence Russell, Assistant studies, 507 Tier Building, 12:30 p.m., Wednesday, Nov. 16.

Animal Science, Mud, Sweat and Beer: Synergy in Systems Research by Kim Omikins, animal science, Carolyn Sifton Lecture Theatre, 130 Agriculture Building, 3:30 p.m., Wednesday, Nov. 16.

Get to Know Research... at your University Speaker Series, Are Functional Foods on your grocery list? by Peter Jones, director of the Richardson Centre for Functional Foods and Nutraceuticals, Smartpark Lobby Boardroom, 135 Innovation Drive, 7 p.m., Wednesday, Nov. 16.

THURSDAY, NOVEMBER 17
Entomology, Knowledge of the insect fauna in relation to pest management by Hugh Danks, Canadian Museum of Nature, 10 a.m., Thursday, Nov. 17.

Learning Technology Centre, Digital Copyright at the University of Manitoba by Polly Van Middelkoop of the Learning Technologies Centre, administrator for the campus Digital Copyright Clearing project, Room E2-130 Engineering Building, 12 p.m., Thursday, Nov. 17.

Computer Science, The Maximum Leaf Spanning Tree Problem and its Variants by Ben Li, University of Manitoba, E2-461 Engineering and Information Technology Complex, 1 p.m., Thursday, Nov. 17.

Microbiology, Atomic force microscopy investigation of Human Immunodeficiency virus (HIV) and HIV-infected lymphocytes by Kevin Sunley, graduate student, 527 Buller Building, 3:30 p.m., Thursday, Nov. 17.

FRIDAY, NOVEMBER 18
Anthropology, Residential Schools as Health Hazards: The Case of Cross Lake Residential Schools by Paul Hacken, community health sciences, 409 Tier Building, 2:30 p.m., Friday, Nov. 18.

Chemistry, Organosulfates and their synthesis: enzymes that process organosulfates by Scott Taylor, chemistry, University of Waterloo, 540 Parker Building, 2:30 p.m., Friday, Nov. 18.

Economics, Time Preference and Divorce by Janice Compton, 307 Tier Building, 2:40 p.m., Friday, Nov. 18.

Clayton H. Riddell Faculty of Environment, Earth, and Resources, Launching Manitoba at the forefront of the climate change challenge: Renewable energy technologies with special emphasis on wind energy by Ben Li, University of Manitoba, E2-461 Engineering and Information Technology Complex, 1 p.m., Thursday, Nov. 17.


Soil Science, Title TBA by Gordon Finlay, MSc student, soil science, 341 Ellis Building, 12 p.m., Tuesday, Nov. 15.

The Seventh Templeton Lecture on Democracy, African Style: Lobbying and Canadian Style Governing: Adding to the Democratic Deficit by The Right Honourable Joe Clark, Muriel Richardson Auditorium, The Winnipeg Art Gallery, 8 p.m., Tuesday, Nov. 15.
Systems Biology: more than the sum of its parts

By Frank Nolan, Research Promotion Officer

On October 27, John Wilkins, internal medicine/immunology, kicked off a new season of the popular research lecture series, This Lunch Hour Has 33 Minutes, with a presentation to a packed house at the University Club.

Wilkins is director of the Manitoba Centre for Proteomics and Systems Biology. His presentation described systems biology and the opportunities it presents for multidisciplinary collaboration.

“The goal of systems biology is to develop models of biological systems, including tissues and organs, that incorporate all genetic and biochemical processes at the molecular level. It really depends on input from a variety of people with various types of expertise,” he said.

Wilkins said comprehensive and reliable models of biological systems would be an invaluable tool for developing new therapies. Such models could pinpoint disease processes, identify pathways that could be selectively targeted by new drugs.

“If you understand how a cell is put together and how it functions, and you know the role a specific molecule plays in a certain disease process, you could interfere with the process by changing the properties of that specific molecule,” he said.

Wilkins described aspects of biological systems as being ‘modular’, since they are made up of different species of molecules that interact to create a functional machine. The same basic proteins, for example, can be quickly rearranged for different purposes.

“It’s a very dynamic process,” he said. “The whole system is designed to disassemble very quickly so that it can be rebuilt and remobilized at a location in the cell where it’s required.”

Systems biology looks at how the various structures and processes in biological systems interact, and it incorporates several new fields of science that have developed over the last decade or so, including proteomics and genomics.

“Many people have argued that these new ‘omics’ are simply new descriptions of old disciplines,” Wilkins said. “It really comes down to the scale of what you’re looking at. For example, genomics differs from traditional genetics because it’s about looking at genes on a much broader scale. Similarly, proteomics is more than just biochemistry, because we’re looking at proteins on a larger scale, including how they interact and how they’re involved with underlying biological processes.”

The Manitoba Centre for Proteomics and Systems Biology employs a number of cutting-edge technologies, including mass spectrometry for protein identification, high-content screening techniques, and various in-gel and in-solution protein separation capabilities. Wilkins stressed that the research is not restricted to human systems. Scientists from a variety of fields are also using the Centre to study a range of plant and animal systems.

“This is really meant to be an institutional resource, and we encourage all researchers who can take advantage of these capabilities to do so,” Wilkins said. “If we’re going to take advantage of these capabilities to do so,” Wilkins said. “If we’re going to
Mufti and Gole earn national Synergy awards

The U of M is tops in Western Canada when it comes to building bridges with industry

The University of Manitoba has received two more national Synergy Awards for excellence in innovation. Announced Oct. 19 at a ceremony in Halifax, the new honours place the University of Manitoba second among Canadian universities with eight Synergy Awards, twice as many as its nearest Prairie competitors.

Established by the Natural Sciences and Engineering Research Council of Canada (NSERC), the Synergy Awards recognize outstanding research and development partnerships between universities and industry. This year, Synergy Awards are presented to six partnerships, including two at the University of Manitoba.

“We are delighted that we have once again been recognized for our participation in these very successful partnerships with the private sector,” said Digvir Jayas, associate vice-president (research) at the University of Manitoba.

“These two partnerships are proof that great things happen when top researchers and industry leaders work together,”

One award recognizes the 10-year partnership between the University of Manitoba and Vector Construction Group. Led by civil engineering professor Aftab Mufti, president of ISIS Canada, the collaboration has focused on the use of innovative materials to strengthen buildings and bridges. The group was the first in North America to use carbon fibre-reinforced polymers (CFRP) to strengthen concrete and wood structures, and they pioneered the regulatory acceptance of this material. This partnership is also leading the world in “civionics” — the use of advanced sensor devices and systems for real-time monitoring of bridges and other structures.

“Implementing innovative ideas and technologies requires the taking of risks,” Mufti said. “The partnership between the ISIS Canada Research Network and Vector Construction Group shows that these risks can be managed appropriately, allowing for the implementation of new methods for the betterment of industry, the research community and all Canadians.”

“Synergy really is the best word to describe this partnership,” said Don Whitmore, president of Vector Construction Group. “When the joint effort of the civil engineering discipline at the University of Manitoba is combined with the practical and innovative field expertise of Vector Construction Group, the resulting benefit to Canada’s infrastructure challenge is far greater than could have been provided by either the university or Vector alone.”

The second Synergy Award recognizes a partnership between the University of Manitoba, the Manitoba HVDC Research Centre, and RTDS Technologies. Led by electrical and computer engineering professor Aniruddha Gole, NSERC Industrial Research Chair in Power Systems Engineering, the partnership has resulted in powerful new simulation tools for the global power industry.

“The group has developed the world’s first fully digital, real-time simulation tool for power systems. Engineers can now perform realistic tests on equipment before placing it into final operation.

“I have always believed that strong university-industry collaboration in innovation is the key to developing a highly qualified workforce and cutting-edge technologies,” Gole said.

“The Synergy Award confirms this by recognizing and rewarding this close three-way partnership and the significant commercial benefits it has brought to Manitoba and Canada through the creation of world-class simulation products.”

“The long-term cooperative relationship between the U of M, the HVDC Center and RTDS Technologies has resulted in the creation of an entirely new market served by real-time digital simulation tools,” said Rick Kuffel, director of RTDS Technologies Inc.

“These tools, including our own RTDS simulator, provide a mechanism for engineers to study and understand system and equipment behaviour in a far more comprehensive way than ever before, allowing for more reliable and secure generation, transmission and distribution of power to consumers.”

A federal agency, NSERC has an annual budget of more than $860 million and supports more than 22,000 university students and postdoctoral fellows in their advanced studies. NSERC funds more than 10,000 university professors every year and fosters innovation by encouraging more than 600 Canadian companies to participate and invest in university research projects.