Leaving a footprint on campus

You have to step back a bit, but Faculty of Architecture students Rebecca Cadelinu, left, and Kellie Ho were busy installing a giant foot south of Architecture II earlier this month. The installation was part of an Environmental Design project that saw a selection of figures installed on the campus.

New faculty earn CFI support

The University of Manitoba has received $1.1 million in new funding from the Canada Foundation for Innovation (CFI) to support research by newly recruited faculty members. The funds will establish cutting-edge facilities for studying the environment, human health, advanced chemistry, automated design and the control of pests.

The new funding was part of a total of $18.6 million in new CFI investment for research across Canada. The national announcement was made at the University of Manitoba Nov. 7 by CFI president and CEO Eliot Phillipson, who was joined by Reg Alcock, president of the Treasury Board and minister responsible for the Canadian Wheat Board.

“The investments made by the CFI since its creation have had a transformative impact on the research landscape in Canada,” said Alcock. “Our government is proud of these investments, which will not only make the economy more innovative and competitive, but will improve the quality of life of all Canadians.”

The national investment comes from two CFI funds: the New Opportunities Fund (NOF), and the Infrastructure Operating Fund. Eight funded University of Manitoba researchers all received NOF grants intended to support research infrastructure for newly-recruited faculty members.

The CFI’s New Opportunities program is highly competitive, and the success of these investigators has shown again that University of Manitoba researchers are among the best in the world,” said University of Manitoba president Emőke Szathmáry.

See STUDENTS/P. 3.

Students mix soup and smiles

The School of Dental Hygiene reached out to Winnipeg’s inner-city through its fourth annual Soup Up Your Smile on Nov. 1 and 3. Second year students spent several months creating interactive displays and games to teach patrons at Siloam Mission and Agape Table how to avoid tooth decay and gum disease – infections that can lead to pain, tooth loss, difficulty eating, and other serious health problems.

“There are a lot of people struggling with many issues who are falling through the cracks. As oral health care professionals, there are many individuals we don’t see unless we take the initiative. It’s so satisfying to feel like we’re doing something, even on a small scale,” said Prof. Mickey Wener.

Wener said about half of Winnipeg’s inner city is living in poverty and increasingly relying on food banks and soup kitchens. They have many health needs including oral health.

“Research is showing there is a link between poor oral health and more serious health problems like pneumonia, heart disease, diabetes, and having premature babies. Soup Up Your Smile teaches people how to prevent problems and where to go in the inner-city for regular oral health care and treatment,” she explained.

The dental hygiene students set up eight interactive kiosks at Siloam Mission on Nov. 1, and at Agape Table on Nov. 3. Hundreds of patrons of the soup kitchens learned how to take care of their mouths and received oral hygiene product packages. Patrons who visited the kiosks were entered in a draw for prizes, including practical household items such as toiletries, towels, food, and a bus pass. Patrons took advantage of the on-site, individual oral hygiene consultations, and those requiring treatment were sent by taxi to the Health Action Centre Dental Clinic (HAC) for free dental care. The HAC is affiliated with the Faculty of Dentistry’s Centre for Community Oral Health (CCHO).

See STUDENTS/P. 3.
The province picked the University of Manitoba’s Bannatyne $4.3 million over four years to assist RHaS recruit additional orthopedic surgeons, anesthesiologists and RCAs. Manitoba currently has 13 RCAs and is the only province that utilizes them.

In addition, Manitoba will spend up to $2.1 million annually on programs designed to assist foreign doctors to obtain licenses in Manitoba over the next four years.

The physician resource co-ordination office is designed to help the RHAs speed up the recruitment and licensing process by showcasing opportunities throughout Manitoba. Dedicated staff will assist Canadian medical graduates and foreign doctors in all aspects of becoming a Manitoba health professional.

Sale also announced today more aggressive recruitment techniques including the new physician careers and recruitment website that provides a highly-visible, comprehensive one-stop-shop website.

Physicians interested in working in Manitoba will have access to information ranging from job opportunities and licensure requirements, to lifestyle and leisure attractions throughout the province.

These initiatives expand on the government’s provincial recruitment strategy that includes:

• new enrolment at the University of Manitoba medical school and an expanded licensing program for international medical graduates,

• new $50,000 grants for family doctors to return to school for a third year in priority areas such as emergency medicine and anesthesiology; and

• new grants to Canadian medical school graduates - five yearly grants of $15,000 for each year of full-time work in the province, and five grants of $25,000 for each year of full-time work in rural Manitoba.

Government to further assist RHAs in their efforts to attract more physicians.

At helping the provinces regional health authorities attract more physicians.

Reflects a commitment by the Manitoba government to further assist RHAs in their efforts to attract more physicians.

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Province ready to fund new med student spaces

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New facility helps keep “hazardous waste” safe

BY DAVID LEIBL
For The Bulletin

E ver wondered what the university does with its hazardous waste? Curious to know where the university’s hazardous waste comes from?

The University of Manitoba’s Hazardous Waste Program recently held an open house to introduce its new Environmental Safety Building located on the university’s Fort Garry campus. The research facility is the nucleus of the university’s hazardous waste program, and it’s a clearinghouse for the hazardous waste generated by the university each year. Last week, the program disposed of 19,000 litres of liquid waste and some 11,500 kgs of solid waste.

As at most universities, the majority of the University of Manitoba’s hazardous waste is generated in its labs. There are more than 500 laboratories located on the university’s two campuses, and the hazardous waste program is responsible for the waste generated by all of them.

The program’s staff handles chemical, radiological and biological wastes, explains Paul Houle, the university’s hazardous waste management coordinator. Much of it is from labs, but if there were a motor vehicle accident on campus, for example, hazardous waste staff would be deployed along with security personnel.

“There’s quite a range,” Houle said. “Because the university is such a unique place we get lab waste, industrial waste, you name it.”

Most of the hazardous waste generated by the University of Manitoba ends up at the environmental safety building, where staff process and repack waste for safe transport to a “final disposal facility” in Alberta or Ontario.

Waste disposal costs are generally calculated not on the basis of weight, but by shipping container volumes, which means much of the job is making efficient use of space within shipping containers.

“The whole trick is to reduce volumes, so we’re looking at bottles we can pour into a single drum,” says Houle. This process is called “bulking,” and it’s Houle’s job to know which chemicals can be safely poured into the same container and which must be separately packed.

Incompatible chemicals are kept apart, stored instead in individual chemical containers in open-top drums. This process, which hazardous waste staff refer to as “isolation,” uses vermiculite as a packing material to prevent breakage, which doubles as an absorbent in the event a container were to leak.

Houle and his staff also handle radioactive waste. Waste with short-lived radioactive materials are documented and decayed on-site. Longer-lived radioactive waste is disposed of in strict accordance with nuclear safety and control regulations specified in the University Nuclear Substances and Radiation Devices license.

A relatively new acquisition is the university’s mobile thermal destruction unit, which is essentially a heavy duty incinerator designed for the disposal of unstable chemicals. The university’s unit — the first ever sold in Canada and the only one in operation by a university — ensures the safe disposal of unstable hazardous waste.

The mobile thermal destruction unit consists of a steel box inside a second steel box, fire by three propane torches. Exhaust travels through a three-foot smokestack equipped with an afterburner.

Despite the often dangerous chemicals they work with, Houle and his staff have little risk of suffering any ill effects from the substances they handle each day. Apart from staff having significant training and experience in hazardous waste management, the university’s environmental safety building takes a safety-first approach to handling hazardous waste, including fume hoods, security cameras and fire suppression systems to ensure the safety of the both the community and those whose job it is to ensure the safe handling of hazardous waste.

projects range from health care to the environment

From Page 1.

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“Projects range from health care to the environment. They have embarked on truly innovative research programs that have the potential to improve our health and that of our environment,” Stathmancy said.

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From Page 1.
Faculty, sessional instructors, and graduate students are invited to join colleagues for workshops on a variety of teaching and learning topics. Here’s a sample of what UTS has to offer in the near future. For more information on UTS workshops and events go to www.umanitoba.ca/uts

**USING THE WEB IN YOUR TEACHING**

Interested in adding some online web-based components to your classes but unsure how to do this? This session will explore the various ways you can use the web strategically to enhance student learning.

**Date/Time:** Wednesday, November 30, 2005, 11:30-1:30

**Location:** 205-207 University Centre

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**Graduate Achievement in Industry Award**

**FACULTY OF SCIENCE**

**CALL FOR NOMINATIONS**

The Faculty of Science, University of Manitoba, invites nominations for the Graduate Achievement in Industry Award. This award is presented annually for the most significant contribution to the mission of a company by an individual who graduated from the Faculty of Science within the last ten years.

The award will be made both to the company and to the former student and both will be honoured at a dinner by presentation of a plaque. There will also be a monetary award for the former student.

Nominations may be made by a company, faculty member, or former student. Faculty members are encouraged to contact the employers of former graduate students whom they feel qualify for this award. Nominees should provide as much documentation as possible, along with a copy of the mission statement of the company.

The winner will be announced in January 2006. Please forward nominations by December 15, 2005 to:

Dr. Mark Abrahams
Associate Dean (Research)
Faculty of Science
University of Manitoba
Tel: 204-474-6574
Fax: 204-474-7618
E-mail: mark_abrahams@umanitoba.ca

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**The Centre for Professional and Applied Ethics**

and

**The Department of Philosophy**

Present

“Corporations and Human Rights”

by

Professor Wes Cragg,
York University, Toronto

- Gardiner Professor of Business Ethics, the Schulich School of Business
- Co-author of Contemporary Moral Issues

When: Friday, 25th November, 2:30-3:30
Where: Rd. 236 University College
Everyone welcome.

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**A full listing of employment opportunities at the University of Manitoba can be found at www.umanitoba.ca**

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. Please include the position number when applying for openings at the university.

**FACULTY OF ARTS**

**Department of Political Studies**

**Position:** Assistant professor with a specialty in Canadian Politics
**Start date:** July 1, 2006
**Salary:** Commensurate with qualifications and experience

**Position number:** 02064

For information: Dr. Richard Sigurdson, Dean, Faculty of Arts, 510 Fletcher Argue Building, University of Manitoba, Winnipeg, MB, R3T 5V5, e-mail: richard.sigurdson@umanitoba.ca

**Department of Religion**

**Position:** Assistant Professor in Buddhism

**Start date:** July 1, 2006
**Salary:** Commensurate with qualifications and experience

**Position number:** 02946

**Application deadline:** Jan. 15, 2006

For information: Professor Dawne McCance, Head, Department of Religion, 527 Fletcher Argue Building, University of Manitoba, Winnipeg, MB, R3T 5V5, phone: 474 6276, fax 474 7603.

**FACULTY OF MEDICINE**

**Department of Clinical Health Psychology**

**Position:** Clinical psychologist, Flin Flon, Manitoba, at the assistant professor level
**Start date:** Feb. 1, 2006
**Salary:** An attractive salary schedule is available and, in addition, the GFT agreement provides for on-site private practice opportunities

**Application deadline:** Dec. 16

**Position number:** AEM 422

For information: Robert McIlwraith, department of clinical health psychology, Faculty of Medicine, University of Manitoba, PZ 350 - 771 Bannatyne Ave, Winnipeg, MB, R3E 3N4, phone 787 7424, fax 787 3755, e-mail bmcilwraith@hsc.mb.ca

**Department of Clinical Health Psychology**

**Position:** Clinical psychologist, Brandon, Manitoba, at the assistant professor level in the area of geriatric psychology and neuropsychology

**Start date:** Feb. 1, 2006
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**Time to remember**

Brian Ehnes of the Fort Garry Legion, left, accompanied by Paul Simms, a student in the Canadian Forces University Program, pay their respect to Canada’s veterans and war heroes at the university’s Remembrance Day Ceremony on Nov. 10.

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Ethics and the risks of chasing a story in Winnipeg

BY DALE BARBOUR
The Bulletin

One of the first rules listed on the journalistic code of ethics requires journalists to seek out the truth and report it. The same code of ethics also requires journalists to be sensitive to the people they are writing about and to minimize the harm that might occur to them. Walking the balance between those two rules is something that Winnipeg Free Press columnist Gordon Sinclair deals with daily.

“Journalism in Winnipeg is a very difficult thing because of our size. You know people, they know you. You don’t want to hurt people, but you’re there to tell the truth,” Sinclair said. He was at the University of Manitoba to deliver a lecture entitled “The Beleaguered Journalist: why does everyone think we’re sleazy?”

The lecture was part of a two-part series on ethics put on by the Centre for Professional and Applied Ethics.

“If you want to do real journalism in this city, it’s not like a war zone, you won’t get shot, but there are other risks,” Sinclair said.

He learned about those risks first hand when he covered the shooting – and fallout from the shooting – of J. J. Harper in 1988. The story of J.J. Harper – Sinclair produced a book on it, Cowboy’s and Indians – is fairly well known in Winnipeg, or at least it should be. Harper was stopped by police while walking along a Winnipeg street. He was mistaken for a car thief and in the course of speaking with the police, a shot was fired and Harper was killed.

Sinclair was asked during the discussion last week what he would have done if he was the police officer confronting Harper when the scuffle ensued.

“I would never have stopped him,” Sinclair said. “There was no reason to stop him. That car thieves were already in custody.”

The reality was that Harper was stopped that night simply because he was an Aboriginal person – a simple truth that stood out clearly in the Aboriginal Justice Inquiry, which was called following the shooting and in 1991 came down with 140 suggestions on how to improve relations between Aboriginal people and police. Sinclair, in many ways, propelled the investigation into the Harper shooting – digging into a situation that could easily have been glossed over.

No one else was investigating the shooting and the police weren’t happy to see me involved,” Sinclair said. “In my naïve, I thought my paper would back me, but my paper eventually did everything but back me.”

The reality was that Sinclair’s digging angered what might be called the establishment of Winnipeg. Indeed, in a passage that eventually made it into Cowboy’s and Indians, Sinclair describes how he was fired in 1992 – in part because the newspaper felt he had an agenda. He grieved the dismissal and after a year long fight got his job back. What made that victory possible was the fact that Sinclair had carried a tape recorder into the meeting that ended in his dismissal – giving him hard evidence in his effort to grve the dismissal.

“I do the write the book at all because it would be hurtful to the family,” Sinclair said. “The book isn’t intended as tabloid journalism – there won’t be anything in it the Asper family doesn’t already know, Sinclair said, though they might have preferred not to see it all in print.

“At the same time, I just wrote a book that was hurtful to all kinds of people, but they weren’t rich and powerful and I don’t run into them all the time.”

The University of Manitoba recognized the work of Winnipeg’s taxi drivers for their persistence and dedication in bringing staff, students and visitors through the maze of streets and alleyways on its campuses.

In recognition of their roles as guides and carriers, all taxi drivers were invited to the Fort Garry Campus for the first-ever “Taxi Driver Appreciation Day” on Sunday, Nov. 6 in Marshall McLuhan Hall in University Centre. There were free t-shirts, food and door prizes. A bus tour of the Fort Garry Campus to familiarize drivers with new buildings and roadways was also provided.

“Taxi drivers are not only ambassadors for the university, but for the City of Winnipeg as well,” said Debbie McCallum, vice-president (administration). “We want to acknowledge their dedication and also provide them with information that will make their jobs easier.”

McCallum notes that there are 100 buildings at the Fort Garry Campus alone, and navigating between them can be a challenge.

The university also announced the addition of new taxi stands north of the Administration Building and next to the Arthur V. Mauro Student Residence.

Taxi drivers feted at special event, new taxi stands added to campus

Warning
– Student Parking

Fraudulent parking permits are being sold to students at both the Fort Garry Campus and the Bannatyne Campus.

Any student found in possession of a parking permit acquired from any source other than University Parking and Shuttle Services is subject to a fine of $150.00 and will be prohibited from parking a vehicle at the University for a period of up to 12 months. A breach of this latter provision would subject the person’s motor vehicle to impoundment.

Furthermore, fraudulent permits will be confiscated. The student who purchased it will also be out of pocket the money paid for the permit.

DON’T TAKE CHANCES!
Student parking permits are available ONLY from University Parking and Shuttle Services, Room 125 University Centre, and only for the Fort Garry Campus.

$3000
Computer Purchase Paid Over 36 Months*

THE U OF M BOOKSTORE:
Interest Rate 5.75%
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Gordon Sinclair

Photo by Dale Barbou
Rizzuto enjoys shaping the built environment

A Day in the Life of a senior carpenter

By Dale Babour

There was never much doubt about what Tony Rizzuto, the University of Manitoba’s senior carpenter, was going to do as a profession.

“I started this when I was seven years old,” Rizzuto said. “Growing up in Italy, I lived in a little house and I got a job as a cabinet maker – it was only maybe 10 by 12 feet and just a one person operation, but I kind of liked the work, so that’s how I got started.”

When he came to Canada in 1967, Rizzuto immediately landed a job as a cabinet maker with McDiarmid Lumber and steadily moved on to work at larger shops. He briefly joined the University of Alberta in 1976-77 and then returned permanently in 1984.

As the senior carpenter, a lot of Rizzuto’s job now is traffic control. When the painters and locksmiths are in, he’s working with a crew of 27 people. It’s his job to keep track of who is working where, how many people are needed for a job and what work orders are coming in.

But that doesn’t mean he still doesn’t dip into the shop on occasion to do some of the hands on work himself. The charm of the job for Rizzuto is working with his hands. Typically the carpentry shop gets involved in remodeling jobs – the proposed $500,000 remodeling of Tache’s Centre Block is a good example.

Fall is survey season

There was little new in this fall’s round of surveys by Maclean’s magazine and The Globe and Mail.

The University of Manitoba placed 15th in Maclean’s medical doctoral rankings, taking a hit once again for its policy of not being exclusive with a rating of 14 for its medical doctoral rankings, taking a hit once again for its policy of not being exclusive with a rating of 14 for its average entering grade. From a reputational standpoint the U of M also gets consistently hammered against its Eastern Canada competition.

The bright spots for the University of Manitoba in Maclean’s include ranking seventh when it comes to ensuring that students graduate, fourth for keeping class sizes down among third and fourth year students, and seventh when it comes to hiring the best faculty with PhDs.

The Globe and Mail rates universities on a letter grade basis across a wide variety of categories. The University of Manitoba achieved A-ratings in the area of personal safety, faculty members’ knowledge of subjects and online library resources. The libraries tended to score well across all categories and students love the university’s computer resources, ease of course registration and the diverse course options open to them.

The areas where the U of M took a hit were similar to the areas where other universities earned low rankings – students want more scholarships, financial assistance and help finding employment. Surprisingly perhaps in a city with one of the lowest rental costs in Canada, the U of M also earned a C for affordability of off-campus housing.

Marks of Achievement

Laura Targownik, assistant professor with gastroenterology, Faculty of Medicine, was awarded the Rudy Falk Clinician Scientist Award on Oct. 25 for her research concerning the optimal use of drugs affecting the gastrointestinal tract. Her continued research will no doubt contribute to the well being of Manitobans affected by conditions of the upper gastrointestinal tract. The Rudy Falk Clinician Scientist Award commemorates Falk’s impressive work by fostering the development of clinician scientists in Canada who are committed both to their patients and basic investigation.

By Kimberley Cornieillie
Winnipeg in 1912, when everything seemed possible

Books
by University Staff

BY DALE BARBOUR
The Bulletin
For Winnipeg, 1912 really was the best of times. The city was booming, property was a hot commodity, investment money poured in and new immigrants poured in. The city’s population had tripled to nearly 170,000 in the previous decade, turning it from a town to Canada’s third largest city almost overnight.

To the city’s elite business community, it was as if everything they might have dreamed of for their city had come to pass.

“It was the last year of the big real-estate boom in Winnipeg and the economic boom for the west. Winnipeg was at its peak,” U of M Libraries section head Jim Blanchard said. Of course, it couldn’t last.

Blanchard, an active writer and past president of the Manitoba Historical Society, looks at Winnipeg’s boom period in Winnipeg 1912, published by the University of Manitoba Press. It’s a book that combines text and pictures to paint a picture of turn-of-the-century Winnipeg.

“I wanted to write something more detailed about the boom times,” Blanchard said. “There have been other books written about the city, people like Ashdown, for example, have written histories of the city, but they don’t really go into detail about the city. This takes one year and looks at what the city was doing.”

What many of those people were doing was getting rich. Winnipeg was home to 21 millionaires and many others not far behind.

“They were putting up branch-lines or debuting the location of industrial buildings, the business elite was challenged by politicians listening to their constituents and didn’t always get what they wanted.”

The homes they were building were very beautiful to display their wealth,” Blanchard said. “They would book the Royal Alexander Hotel to do their entertaining and there was a kind of high life going on that probably doesn’t exist now.”

Indeed, Blanchard says there seems to have been every effort to create an elite upper class with access to private game parks for their entertainment and exclusive societies and gatherings that could only be attended by the ‘right’ people.

“All the original founders of the city, people like Ashdown, for them their version of Winnipeg had come to pass in 1912. The city they had wanted was there,” Blanchard said. “But after 1912, it all started to change and it was no longer their little project.”

Indeed, Blanchard said one of the surprises of writing the book was finding that the notion that Winnipeg’s politicians always catered to business interests wasn’t true. Whether it was putting up branch-lines or debuting the location of industrial buildings, the business elite was challenged by politicians listening to their constituents and didn’t always get what they wanted.

“Winnipeg was a very cosmopolitan city — there were more people from outside the British Empire — from Eastern Europe, or Italy — than in any other city in Canada,” Blanchard said. “But still the British Empire was very important and politicians that wanted to be successful had to ensure they showed proper homage to kings and empires.”

As much as there was a wealthy Winnipeg, there was also a poor Winnipeg. Homes in the North End were built quickly and cheaply to deal with the flood of new immigrants. Some of the houses on Dufferin and Jarvis Avenues were put up very quickly without a foundation — if you travel around the area now you can see that some of them are still there tugged in every now and again,” Blanchard said.

With land prices so hot there might be two or three shanties thrown up on a lot in some of the poorer neighbourhoods.

“In between these two extremes was a big middle class Anglo population,” Blanchard said.

In 1912, people knew the boom times couldn’t last forever. There were warnings from real estate agents and bankers that the speculative run on property was overheating.

But still, the booster mentality prevailed.

In 1913, things began to change. There was war in the Balkans and the potential for a much larger European war was becoming readily apparent. The boom in Winnipeg had been financed by British money, but when financiers went to sell bonds in Great Britain in 1913, they found few takers. The railroad had been an engine of growth for Winnipeg, but with financial support drying up both the Canadian National and Grand Trunk Railways declared bankruptcy, later merging to become C.N. Rail.

Finally, with war starting in 1914, the flood of immigrants to Winnipeg that had helped fuel the boom dried up.

When the war ended, Winnipeg held its breath waiting to see if the British money, the flood of immigrants and all the other things that had made the boom possible would return.

It didn’t happen. Winnipeg would continue to grow, but its boom town days were over.

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Sunday: CLOSED

The University of Manitoba Singers
under the direction of Professor Henry Engbrecht

The Annual Holiday Performance of Carols, Christmas Songs and Music presented by

Dr. Emőke Szathmáry, President, invites you to attend

Christmas at the Admin

Monday, December 12, 2005
from 12 noon-1 pm
in the Administration Building,
University of Manitoba
Events Listing

Time to think about Christmas

With the weather outside looking frightful this week, it’s a good time to remember that there’s plenty of things that are delightful about winter – and one of them is the U of M’s Christmas at the Admin celebration.

The annual event takes place 12 to 1 p.m., Monday, Dec. 12 in the Administration Building and will feature performances of carols, Christmas songs and music by the University of Manitoba Singers under the direction of professor Henry Engbrecht.

Bannatyne Campus
AND ST. BONIFACE RESEARCH CENTRE

Health Sciences BookStore Demonstration, Diagnosing Skin Diseases by Eileen Murray, clinical dermatologist and U of M faculty member who will be on hand to discuss and demonstrate her new CD-Rom, Health Sciences BookStore, 11 a.m. Thursday, Nov. 24.

Immunology Research Seminar, Folicular dendritic cell – secreted protein (FDC-SAP) in a chemotactic factor that regulates germinal center responses by Monther Al-Awlan, post doctoral fellow, department of immunology, Immunology Library 604/605 Basic Medical Sciences Building, 12 p.m., Thursday, Nov. 24.

Pediatrics Research Rounds, Role of Myocardial Stenosis in the Development of Heart Disease in Overweight and Obese Children & Adults by Jon McGavock, division of hypertension, University of Texas, Southwestern Medical Centre, Dallas, Texas, Childhood & Adolescent Obesity Research candidate, 500, Boardroom John Buhler Research Centre, 12 p.m., Thursday, Nov. 24.

FRIDAY, NOVEMBER 25 Internal Medicine, Topic TBA by Merle Sande, professor, University of Washington, Theatre A Basic Medical Sciences Building, linked to NG002 at St. Boniface Hospital, 8 a.m., Friday, Nov. 25.

Community Health Sciences, The Town With No Poverty by Evelyn Forget, Dr. Betty Havens Seminar Room 8060 Medical Rehabilitation Building, 12 p.m., Friday, Nov. 25.

2005 Grass Lecture, NMDA receptors in synaptic plasticity and excitotoxicity by Yu Tian Wang, Brain Research Centre, University of British Columbia, Theatre C Basic Medical Sciences Building, 12:30 p.m., Friday, Nov. 25.

Continued on Page 10.
University of Manitoba Bookstore: Customer Appreciation Days The biggest sale of the year! UM Bookstores, Nov. 18 to 20.
$4 Cash for Books$ Used Book Buy Back Fort Garry Bookstore, Dec. 8 to Jan. 7.

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 Washburn of the Learning Technologies Centre, administrator for the University Digital Copyright Clearance 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 Bulter Building, 5:30 p.m., Thursday, Nov. 17.

FRIDAY, NOVEMBER 18
Political Studies, A Confident Canada for the Internet age? by Bob Cox, new Editor of the Winnipeg Free Press, 125, St. John's College, 12:30 p.m., Friday, Nov. 18.
University College, The Winnipeg Free Press in the 21st century: Is the newspaper still relevant in the Internet age? by Bob Cox, new Editor of the Winnipeg Free Press. Free, Concourse Lounge, University College, 1:30 p.m., Friday, Nov. 18.
Mathematics Graduate Seminar, Polynomial lifting operators and applications to h-p version finite element method by Jiunming Zhang, University of Waterloo, 540 Parker Building, 2:30 p.m., Friday, Nov. 18.
Chemistry, ‘Organouafates: Their synthesis and the enzymes that process them 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 Bill Hamin, Eric Bibeau, Forest and Wildlife, 10th Annual Fields on Wheels Conference, “The Grain Supply Chain 10 Years Back, and 10 Years Forward.” Taking place on Nov 22 at the Hotel Fort Garry, 222 Broadway Ave. Registration Fee $245. For more information please call 474-9842, or visit www.um.edu.ca.

Fields on Wheels, nations in transition
The University of Manitoba Transportation Institute, 10th Annual Fields on Wheels Conference, “The Grain Supply Chain 10 Years Back, and 10 Years Forward.” Taking place on Nov 22 at the Hotel Fort Garry, 222 Broadway Ave. Registration Fee $245. For more information please call 474-9842, or visit www.um.edu.ca.

THE BLACK HOLE THEATRE
The Black Hole Theatre is located in the lower level of University College. For tickets call 474-6880.

THE BALD SOPRANO by Eugene Ionesco
November 15 to 19 and 22 to 26
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.
Performances take place at 8 p.m., November 15 to 19, and 22 to 26 in the Black Hole Theatre, University College. There is free evening parking adjacent to the theatre.
Tickets are $11 for adults, and $9 for students and seniors and are available at the door. Reservations can be made by calling the Box Office: 474-6880.

NO EXIT by Jean Paul Sartre
November 10 to January 27, 2006
This exhibition will include paintings, drawings, prints and three-dimensional pieces borrowed from the artist, the Canada Council Art Bank, the Winnipeg Art Gallery and the collection of Gallery One One One that were produced in the 1970s, and will be the first critical examination of Lebrecht’s early attempts to deconstruct the grammar and syntax of the visual image. Several of the works proposed for the exhibition were produced while Lebrecht was still a student at the University of Manitoba School of Art (1972-1976), and entered museum collections in an unfinished state. Essays by Robert Epp, Jeanne Randolph and Cliff Eyland. Opening reception: Thursday, November 10, 3 to 6 p.m.

• The Bulletin publishes events involving the university community.
• E-mail events to barbourd@ms.umanitoba.ca or fax, 474-7651.
• The deadline for the Dec. 8 Bulletin is Nov. 30 at 4:30 p.m.

Fort Garry Campus

Biological Seminar Series, Forest Restoration with a Purpose: Developing a Science of Restoration Silviculture by Andrew Park, assistant professor, Centre for Forest Interdisciplinary Research (CFIR), department of biology, University of Winnipeg, Z201 Duff Roblin Building, 3 p.m., Friday, Nov. 18.
Physics and Astronomy, A Survey of the Microcosm by Don Lincoln, Fermilab, Chicago, 530 Allan Building, 4 p.m., Friday, Nov. 18.

M O N D A Y, N O V E M B E R 2 1
Asian Studies Speakers Series, Tibet and Globalization: Two Approaches: Tibetan Experiences of Language Education in Modernization and Globalization by Sonneagh MacPherson, education and Tibet in the Chinese Imaginary: From Maoist Modernization to Global Tourism by Tina Mai Chen, history, 409 Tier Building, 12:30 p.m., Monday, Nov. 21.

AGribusiness and Agricultural Economics/Transport Institute, Maritime Shipping and the Challenge in Europe to Meet the Demands of the 21st Century by Gordon Braun, London, United Kingdom, 134 Agricultural Building, 12:30 p.m., Monday, Nov. 21.

TUESDAY, N O V E M B E R 2 2
Animal Science, Introduction into Prion Diseases by Stefanie Szub, Canadian Society for Human and Animal Health, 219 Animal Science/Entomology Building, 10 a.m., Tuesday, Nov. 22.
Entomology, Assessing the distribution and the diversity of the mosquito species of Canada in relation to climatic regions with emphasis on container breeding of Aedes and their habitats by A. Thomson, 220 Animal Science/Entomology Building, 10 a.m., Tuesday, Nov. 22.
This Lunch Hour Has 33 Minutes Speaker Series, Research Rx for the Prevention of Emotional Disorders: Collaboration Among Canadian Developmental Health Sciences by Rosemary Mills, assistant professor, Developmental Health Sciences by Hugh Danks, Canadian Museum of Nature, 10 a.m., Thursday, Nov. 17.

VOICES OF A NATION
The Works Gallery proudly presents VOICES OF A NATION (Inside the Orange Revolution), a photo-journalistic exhibition of the Ukrainian Orange Revolution by Winnipeg freelance photo-journalist and U of M graduate Ruslan Stacz.

V O I C E S O F A N AT I O N
The Works Gallery proudly presents VOICES OF A NATION (Inside the Orange Revolution), a photo-journalistic exhibition of the Ukrainian Orange Revolution by Winnipeg freelance photo-journalist and U of M graduate Ruslan Stacz.
Mathematics Graduate Seminar, The Banach-Tauber Paradox by Clint Enns, 415 Machray Hall, 2:30 p.m., Friday, Nov. 25.

Chemistry, Application of Solar Photocatalysts Water Detoxification by Baslu Elmayevici, chemistry, University of Manitoba/University of Winnipeg, 540 Parker Building, 2:30 p.m., Friday, Nov. 25.

Biological Seminar Series, Bread and butter issues: evaluating the constitutive properties of soft condensed matter by Martin Scanlon, professor, food science, University of Manitoba, 2201 Agriculture Building, 3:30 p.m., Friday, Nov. 25.

Physics and Astronomy, Are Dipolar Liquids Ferroelectric? by David Shelton, physics, University of Nevada, Las Vegas, 3:30 p.m., Friday, Nov. 25.

Religion, Vernacular Confessional Historiography in Early Modern Germany - Eby by Johannes Wulfart, religion, Quiet Room 111 St. John’s College, 2:45 p.m., Friday, Nov. 25.

WEDNESDAY, NOVEMBER 29

Interdisciplinary Research Circle on Globalization and Cosmopolitism/ The Global Political Economy Program, Good-bye Kitty, Hello War: The Tactics of Spectacle and New Youth Movements in Japan by Sharon Hayashi, East Asian Literature, academia and social activism by R. Hanemboldt, Native studies, 307 Tier Building, 12:30 p.m., Tuesday, Nov. 29.

Soil Science, Soil organic matter quality: the mineralization conundrum by Sylvie Quideau, University of Alberta, 3:30 p.m., Wednesday, Nov. 29.

THURSDAY, NOVEMBER 30

Interdisciplinary Research Circle on Globalization and Cosmopolitism, The Urban Political Economy Program, Soil phosphorus at the surface of a semiarid biocrust by Jonathan Russell, botany, Carolyn Sifton Lecture Theatre, 130 Agriculture Building, 3:30 p.m., Thursday, Nov. 24.

Microbiology, Post transcriptional regulation of ubiquitin-proteasome by Russell, botany, Carolyn Sifton Lecture Theatre, 130 Agriculture Building, 3:30 p.m., Thursday, Nov. 24.

FRIDAY, NOVEMBER 25

Elisabeth Dafoe Library Graduate Student Lecture Series, Silence, Secreted: The Secret Construction of Knowledge by Betsy Warland, Canada Council, 27 Buller Building, 3:30 p.m., Thursday, Nov. 24.

Mathematics, A co-editor of five teacher education books and the passion for teaching by Tom Russell, mathematics, University of Manitoba/University of Winnipeg, 540 Parker Building, 2:30 p.m., Friday, Dec. 2.

Interdisciplinary Research Circle on Globalization and Cosmopolitism, The Critical International Relations Program, International Student Centre, San Francisco, 7:30 p.m., Wednesday, Nov. 29.

Interdisciplinary Research Circle on Globalization and Cosmopolitism, The Critical International Relations Program, International Student Centre, San Francisco, 7:30 p.m., Wednesday, Nov. 29.

THURSDAY, DECEMBER 1


Psychology, The cognitive neuroscience of remote episodic, semantic and spatial memory by Morris Moscovitch, psychology, University of Toronto, 412 Duff Roblin Building, 3 p.m., Thursday, Dec. 1.

Microbiology, Composition and structure of microbial communities from stromatolites of Hamelin Pool in Shark Bay, Western Australia by Fawn Gunn, 527 Buller Building, 3:30 p.m., Thursday, Dec. 1.

Education, 2005 Annual Joan Irvine Distinguished Lecture, Can Teacher Education Change our Culture of Teaching and Learning? by Tom Russell, professor of education at Queen’s University, 224 Education Building, 7:30 p.m., Thursday, Dec. 1.

PHILOSOPHY, DECEMBER 2

Biology, Plants and their parasites in the regulation of estrogen responsive genes in breast cancer cells by Lin Li, PX236/238 Psychophysics Building, 12:15 p.m., Wednesday, Nov. 29.

THURSDAY, DECEMBER 8

Interdisciplinary Research Seminar, Virus undressing: how much to reprogram a cell? by Kevin Coombs, Interdisciplinary Research Circle on Globalization and Cosmopolitism/ The Critical International Relations Program, International Student Centre, San Francisco, 7:30 p.m., Wednesday, Nov. 29.

FACULTY OF EDUCATION

University of Manitoba

Can Teacher Education Change our Culture of Teaching and Learning?

a public lecture

Dr. Tom Russell

Dr. Tom Russell is a professor of education at Queen’s University and holds degrees from Cornell University, Harvard University, and the University of Toronto (OSIE). His research and teaching focus on the development of new teachers’ professional knowledge as they learn from experience. Individually and with others, he has received eight research grants from the Social Sciences and Humanities Research Council during his 28 years at Queen’s. Russell is a co-editor of five teacher education books and the 2004 International Handbook of Self-Study of Teaching and Teacher Education Practices.
Three more U of M Canada Research Chairs

By Frank Nolan, Research Promotion Officer

Three more University of Manitoba researchers, including one newly-recruited from outside Canada, have been awarded prestigious Canada Research Chairs. This brings the total number of Chairs at the University of Manitoba to 36.

Announced on November 10, 2005, the latest awards represent a commitment from the Canada Research Chairs Program of $4.9 million: $2.4 million will fund the three new Chairs, while $2.5 million will fund the renewal of five existing Chairs for another five years. The three new Canada Research Chairs are also receiving an additional investment of $175,000 for infrastructure support from the Canada Foundation for Innovation (CFI).

The three new Canada Research Chairs at the University of Manitoba are:

Mostafa Fayek, Canada Research Chair in Isotope and Environmental Geochemistry. Fayek, recruited from the University of Tennessee, will join the University of Manitoba department of geological sciences in 2006. Fayek is an expert in secondary ion mass spectrometry (SIMS), and his research is focused on finding more effective ways to dispose of nuclear waste, explore for minerals, and characterize materials.

Grant Hatch, Canada Research Chair in Molecular Cardiopulmonary Metabolism. Hatch, pharmacology and therapeutics/biochemistry and medical genetics, is conducting research into cardiopulmonary metabolism that will potentially lead to new therapies for heart disease, cancer, diabetes, obesity, and some rare genetic disorders.

Brian Cox, psychiatry, Canada Research Chair in Mood and Anxiety Disorders.

Geoff Hicks, Canada Research Chair in Functional Genomics. Hicks, biochemistry and medical genetics, is director of the Mammalian Functional Genomics Centre at the Manitoba Institute of Cell Biology, a joint institute of the University and CancerCare Manitoba.

Larry Hryshko, physiology, Canada Research Chair in Cardiac Electrophysiology. Hryshko’s laboratory is located at the St. Boniface General Hospital Research Centre.

Lorrie Kirshenbaum, Canada Research Chair in Molecular Cardiology. Kirshenbaum, physiology, also conducts his research at the St. Boniface General Hospital Research Centre.

Hélène Perreault, chemistry, Canada Research Chair in Bioanalytical Mass Spectrometry.

“These five researchers are truly rising stars in their fields, and they have all received national and international recognition for their work,” said Joanne Keselman, Vice-President (Research). “Having their research funded for another five years is very good news, not just for the University of Manitoba, but for all Canadians.”

Crohn’s, colitis, and the increased risk for asthma

By Kimberly Cornelius, Public Affairs, Faculty of Medicine

In Manitoba, approximately 7,000 people live with inflammatory bowel disease (IBD), while across Canada more than 170,000 have been diagnosed with IBD—equivalent to the entire population of Regina, Saskatchewan. Most are diagnosed in their early 20s, a period when young adults are establishing their career and social goals.

What is IBD? Often confused with Irritable Bowel Syndrome (IBS), IBD refers to both ulcerative colitis and Crohn’s disease. Ulcerative colitis causes inflammation of the lining of the large intestine, while Crohn’s causes inflammation of the lining and wall of the large and/or small intestine. When inflamed, the lining of the intestinal wall is red, swollen, becomes ulcerated and bleeds. Patients often suffer from abdominal pain, diarrhea, fatigue and weight loss.

IBD patients may also suffer from other associated pains or health problems, including arthritis and skin rashes. These associated health symptoms led Charles Bernstein, internal medicine, and James Blanchard, community health sciences, to investigate the degree to which other inflammatory disorders may coexist with IBD. Their research found that IBD patients had a greater risk of developing asthma.

“People with IBD are 1.5 times as likely to have asthma as people in the general population,” Bernstein said. “Airway diseases are the second most common chronic inflammatory disease (after arthritis) assessed in patients with either Crohn’s disease or ulcerative colitis.”

Bernstein and Blanchard organized a study that involved reviewing database information from Manitoba Health. No personal information was released. The IBD Database included more than 8,000 people diagnosed with IBD over a 19-year period. Each person was matched randomly with 10 members of the general population by age, gender and geographic location.

The study found that ulcerative colitis patients were 50 to 70 per cent more likely than the general population to have asthma, while Crohn’s patients were about 30 to 40 per cent more likely.

Bernstein said there is no conclusive reason for this increased asthma risk, but researchers are looking at several factors, including shared genetics, shared environmental factors, or the consequences of disease manifestation or treatment. There is also the possibility that, since intestinal and respiratory tracts develop together embryologically, a crossover might occur that leads to future health problems in both organ systems.

These findings highlight an often overlooked association between intestinal disorders and the respiratory system. The results of this study, Bernstein said, should lead treating physicians to arrange respiratory tests for IBD patients who present respiratory complaints, both to help diagnose asthma or other respiratory disorders and to provide patients with proper medical care. Bernstein said further research needs to be conducted to find out what common triggers exist, if any, in the organ systems and autoimmune diseases, and to find out why the human body in some people reacts to itself to make those people ill.

To learn more about Charles Bernstein’s IBD research program, visit: www.ibdmanitoba.org.
University of Manitoba ponders the fiscal gap
We might be Canada’s most efficient university, but we need funding to compete

BY DALE BARBOUR
The Bulletin

Why is the University of Manitoba asking for more money?

Expect to hear that question a lot over the next few months as the university enters its budgetary process for 2006/2007.

Currently, the University of Manitoba is estimating that its overall operating budget for 2006/07 will be just over $400 million. To balance the books in 2006/07 the university expects it will have to ask the province of Manitoba for an additional $18.2 million on its $22.4 million base operating grant – about a 1 per cent increase to the base operating grant – just to maintain the status quo. The $18.2 million includes $11.3 million in new funding, or about a 5 per cent increase, and $6.9 million to replace what the university reported as being unallocated during the fiscal year ending March 31 – 2005/06. The province covered that $6.9 million last year with a one-time grant, leaving the question of how it will be dealt with this year open.

As the consumer price index over the last number of years has averaged 1.8 per cent per year – leading to the obvious question: why is the university asking for a 5.5 per cent grant increase in 2006?

The answer is that the university is not just another consumer. Fuel prices for the university are expected to increase 8 per cent and light and power costs are expected to increase 3.5 per cent in 2006/07; Insurance costs are set to rise 5.3 per cent, and increased a whopping 57 per cent in the year following the Sept. 11, 2001 terrorist attack on the United States; Library acquisitions will cost an additional 8 per cent; and salaries will increase by three per cent in an effort to keep the university competitive.

The consumer price index assumes the status quo – people are buying the same type of things they did last year. But in the case of the university, that’s simply not the case. Over the past several years, the University of Manitoba has been growing; it has over 28,000 students registered this year, compared to the less than 22,000 who signed on in the fall of 2000. The university has also been growing physically with nearly 1 million square feet has been added to the university’s physical space – the Richardson Centre in Smartpark and the expanded Engineering and Information Technology Centre are the most obvious contributors. All of that new space needs to be cleaned and maintained, creating increased operating costs of $5 per square foot.

The standard suggestion when facing a budget shortfall is, “Why don’t you trim the fat?”

“Fat” usually means administration and operating expenses. However, as Graph 1 shows, compared to the other medical doctoral universities in Canada, the University of Manitoba is only a university with less “fat” as a per cent of total expenses than the University of Manitoba is Queen’s University. To put it another way, the average Canadian university spent 16.9 per cent of its operating budget on administration and general costs. In comparison, the University of Manitoba spends just 7.3 per cent of its operating budget on administration and general costs.

If efficiency is judged by how much a university spends on administration, the University of Manitoba is one of the most efficient universities in Canada.

Of course, it has to be. A look at Graph 2 shows that the University of Manitoba received the full operating grant it had requested. In 1998-99, for example, the university requested a 7.7 per cent increase to its operating grant and received a 4.4 per cent increase through a combination of tuition and its provincial grant. In comparison, last year the university requested a 6.5 per cent increase to its operating budget and received a 3.2 per cent increase from the province – a figure that factors in the province’s decision to grant property tax relief to the university. Given the tuition freeze that has been in place since the year 2000, raising tuition was not an option.

As mentioned the university is getting bigger – that means added costs. But the U of M also has to compete against other universities across Canada. The figures show that when it comes to running an efficient operation with respect to its administrative costs the U of M is head and shoulders above its contributors. Administrative frugality is often considered a strength, but when it comes to having money to spend on resources for students, frugality is a competitive liability not an asset.

Consider the University of Manitoba Libraries as one example; the university spent $521 per student on material purchases in the 2003/04 fiscal year, compared to the $1,599 per full time student spent by the University of Saskatchewan or the $2,428 per full time student spent by the University of British Columbia. That sort of financial mismatch has an impact; the Association of Research Libraries ranked the U of M 84th out of the 112 research libraries in Canada in 2000. By 2003, that figure had slid to 106th out of 114 before recovering slightly to 103rd out of 114 in 2004.

The reality is that universities across Western Canada have had to deal with the same cost increases that the University of Manitoba has – but they’ve been able to tap into the financial resources to do it. Graph 3 looks at the tuition fees charged by the University of Manitoba compared to other universities in Western Canada and then compares their ability to raise money through tuition or operating base grant increases. The University of Manitoba is lower across the board – it has the lowest tuition fee of the six major universities in Western Canada – using the Faculty of Arts as a point of comparison – and its ability to raise funds in 2005/06 was less than half that of its competitors. As Graph 4 shows the funding for university students across the province – a figure that factors in the province’s decision to grant property tax relief to the university. Given the tuition freeze that has been in place since the year 2000, raising tuition was not an option.

Still, the consumer price index over the last number of years has averaged 1.8 per cent per year – leading to the obvious question: why is the university asking for a 5.5 per cent grant increase in 2006?

The answer is that the university is not just another consumer. Fuel prices for the university are expected to increase 8 per cent and light and power costs are expected to increase 3.5 per cent in 2006/07; Insurance costs are set to rise 5.3 per cent, and increased a whopping 57 per cent in the year following the Sept. 11, 2001 terrorist attack on the United States; Library acquisitions will cost an additional 8 per cent; and salaries will increase by three per cent in an effort to keep the university competitive.

The consumer price index assumes the status quo – people are buying the same type of things they did last year. But in the case of the university, that’s simply not the case. Over the past several years, the University of Manitoba has been growing; it has over 28,000 students registered this year, compared to the less than 22,000 who signed on in the fall of 2000. The university has also been growing physically with nearly 1 million square feet has been added to the university’s physical space – the Richardson Centre in Smartpark and the expanded Engineering and Information Technology Centre are the most obvious contributors. All of that new space needs to be cleaned and maintained, creating increased operating costs of $5 per square foot.

The standard suggestion when facing a budget shortfall is, “Why don’t you trim the fat?”

“Fat” usually means administration and operating expenses. However, as Graph 1 shows, compared to the other medical doctoral universities in Canada, the University of Manitoba is only a university with less “fat” as a per cent of total expenses than the University of Manitoba is Queen’s University. To put it another way, the average Canadian university spent 16.9 per cent of its operating budget on administration and general costs. In comparison, the University of Manitoba spends just 7.3 per cent of its operating budget on administration and general costs.

If efficiency is judged by how much a university spends on administration, the University of Manitoba is one of the most efficient universities in Canada.

Of course, it has to be. A look at Graph 2 shows that the University of Manitoba received the full operating grant it had requested. In 1998-99, for example, the university requested a 7.7 per cent increase to its operating grant and received a 4.4 per cent increase through a combination of tuition and its provincial grant. In comparison, last year the university requested a 6.5 per cent increase to its operating budget and received a 3.2 per cent increase from the province – a figure that factors in the province’s decision to grant property tax relief to the university. Given the tuition freeze that has been in place since the year 2000, raising tuition was not an option.

As mentioned the university is getting bigger – that means added costs. But the U of M also has to compete against other universities across Canada. The figures show that when it comes to running an efficient operation with respect to its administrative costs the U of M is head and shoulders above its contributors. Administrative frugality is often considered a strength, but when it comes to having money to spend on resources for students, frugality is a competitive liability not an asset.

Consider the University of Manitoba Libraries as one example; the university spent $521 per student on material purchases in the 2003/04 fiscal year, compared to the $1,599 per full time student spent by the University of Saskatchewan or the $2,428 per full time student spent by the University of British Columbia. That sort of financial mismatch has an impact; the Association of Research Libraries ranked the U of M 84th out of the 112 research libraries in Canada in 2000. By 2003, that figure had slid to 106th out of 114 before recovering slightly to 103rd out of 114 in 2004.

The reality is that universities across Western Canada have had to deal with the same cost increases that the University of Manitoba has – but they’ve been able to tap into the financial resources to do it. Graph 3 looks at the tuition fees charged by the University of Manitoba compared to other universities in Western Canada and then compares their ability to raise money through tuition or operating base grant increases. The University of Manitoba is lower across the board – it has the lowest tuition fee of the six major universities in Western Canada – using the Faculty of Arts as a point of comparison – and its ability to raise funds in 2005/06 was less than half that of its competitors. As Graph 4 shows the funding for university students across the province – a figure that factors in the province’s decision to grant property tax relief to the university. Given the tuition freeze that has been in place since the year 2000, raising tuition was not an option.