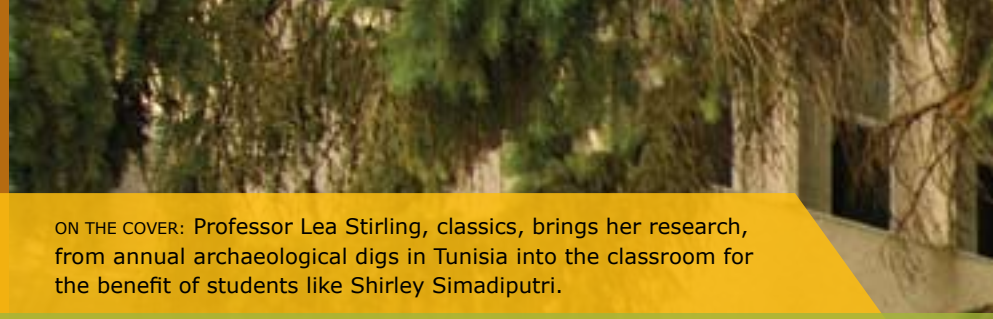
ONE university MANY futures

ANNUAL REPORT
2006-2007

Celebrating
130 years

UNIVERSITY OF MANITOBA



ON THE COVER: Professor Lea Stirling, classics, brings her research, from annual archaeological digs in Tunisia into the classroom for the benefit of students like Shirley Simadiputri.

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MISSION OF THE UNIVERSITY OF MANITOBA

To create, preserve and communicate knowledge, and thereby, contribute to the cultural, social and economic well-being of the people of Manitoba, Canada and the world.

VISION STATEMENT OF THE UNIVERSITY OF MANITOBA

To affirm the position of the University of Manitoba among the best in Canadian research-intensive institutions and to lead our nation in demonstrating a commitment to the education of a broad sector of society.

MESSAGE FROM CHAIR OF THE BOARD OF GOVERNORS

As I settle into my inaugural year as the University of Manitoba's Chair of the Board of Governors I am proud and delighted to reflect on 2006/2007. It was a remarkable year; one in which the university experienced many firsts, celebrated significant milestones and continued to make a difference at home and around the world.

In 2006/2007, the University of Manitoba continued to experience significant growth and improvements in the form of upgraded laboratories, new state-of-the-art facilities and enhanced learning tools for students. Much of this growth took place on campus, but the University of Manitoba also continued to expand its presence around the world, collaborating to establish new research facilities in East Africa and investigating solutions to some of the most pressing issues of our time.

Our students continued to make us extremely proud in 2006/2007, showcasing their talents and knowledge on the international and national stage. All 49 University of Manitoba pharmacy students proved they are number one in Canada by ranking first in the 2006 Pharmacy Examining Board of Canada licensing examinations with an overall pass rate of 100 per cent. Asper School of Business students taking the Uniform Final Examination of the Canadian Institutes of Chartered Accountants achieved the highest pass rate of any school in Western Canada in 2006 at 94.9 per cent. The average national pass rate was 79.3 per cent.

This year also was marked by an impressive range of staff and faculty recognitions and honours, which you will find highlighted in the pages to follow. Several prominent lifetime achievement awards, Orders of Canada and Orders of Manitoba were conferred on University of Manitoba faculty and graduates.

2006/2007 also marked 130 years of excellence and achievement at the University of Manitoba. The 130th birthday was celebrated with fanfare on both campuses.

The Faculty of Agricultural and Food Sciences celebrated its 100th anniversary in July and St. John's College marked its 140th birthday last autumn.

Lastly, it goes without saying that whatever success the University and its Board of Governors enjoys is, in no small part, due to our President and Vice-Chancellor Dr. Emőke J. E. Szathmáry's unwavering dedication to the University of Manitoba. It is truly inspirational.

Before I close these remarks I would like to extend my thanks and appreciation to all of the members of the Board of Governors. Their willingness to give of their time to help the University of Manitoba achieve its great successes is a testament to their commitment to this institution. With that, I am honoured to conclude my first summary for the 2006/2007 annual report for Western Canada's first university, the University of Manitoba. As promised, my message is filled with many firsts. And as a place where learning, innovation and opportunity have taken place for 130 exceptional years, I would expect nothing less.

Terry Sargeant, BA, LLB

Chair

MESSAGE FROM THE PRESIDENT AND VICE-CHANCELLOR

The University of Manitoba's annual report for 2006/2007 seeks to highlight performance, to educate and inform readers, to outline future directions, and to show stewardship of Manitoba's most significant higher education resource. The report shows that investment in our University is wise investment in the future.

For example, the purpose of any university is to preserve, to create and to communicate knowledge, but the University of Manitoba's mission adds that through these activities we contribute to the cultural, social and economic well-being of Manitoba, Canada and the world. Our institution proudly bears Manitoba's name, and our students obtain knowledge and skills that will serve our province, our nation and the world. This report notes not only that a record number of students - 4,777 - graduated in 2006/2007, but it also observes how community-mindedness is instilled in them through a variety of extra-curricular initiatives, and the inspiration of staff who received University Outreach Awards. The honours given our alumni in 2006/2007 globally and locally represent just "the tip of the iceberg," documenting that our graduates contribute significantly everywhere.

The double-pronged vision statement of the University affirms our role as one of Canada's leading research universities, and our intention to lead Canada by educating a broad sector of our society. Our five-year strategic plan, Building for a Bright Future, sets the directions whereby to attain these aspirations, and we are on track. For example, outstanding students attracted to our institution have outstanding instructors retained by the institution, whose performance in the classroom is as important as their performance in research, scholarship and creative work. Both third party and University recognition of student and staff accomplishments highlighted in this report attest to this claim. Research funds directly administered by the University exceeded $100 million for the first time in 2006/2007, further demonstrating our professors' increasingly significant research strength.

Staff and students require good facilities for learning and research; a large and diverse student body requires many different instructors and support staff to bring out the best in their capacity to learn. In 2006/2007 more academic and support staff joined the University's workforce, and renovations, technological upgrades, and construction of new buildings continued to improve the institution's physical infrastructure. The University's spending was within budget and its trust and endowment funds continued to grow. These accomplishments show that stewardship of the University's resources is forging a sustainable 21st century learning environment in which good minds will continue to grow and research will flourish.

There are many people to thank for these achievements. First among them are the faculty and staff whose talent and commitment make the University of Manitoba an outstanding place of learning. I thank Senate and the Board of Governors for their steadfastness in guiding the University. I am grateful to the Chair of the Board of Governors, Mr. Terry Sargeant, and the Chancellor, Dr. William Norrie, for their leadership, wisdom and good counsel that assisted us with meeting the challenges of the past year.

Emőke J. E. Szathmáry, CM, PhD, FRSC

President and Vice-Chancellor

TEACHING AND LEARNING

SUPPORTIVE ENVIRONMENT, INSPIRING EXCELLENCE

Every year, many of Canada's best and brightest students come to the University of Manitoba to discover their strengths, pursue their dreams and forge their futures. When these sharp, inquisitive minds interact with dedicated professors who bring expertise and knowledge to the classroom, the students are engaged in a dynamic learning experience. Sharing in the quest for a vaccine for HIV/AIDS, unlocking the mysteries of the ancient world in Africa, mastering a tricky jazz riff, or conducting climate change research on an ice-breaker in the high Arctic as part of an international team, University of Manitoba students have the opportunity to work alongside the best minds in the world.

University of Manitoba faculty know the importance of sharing their research and scholarship with students and they do so every time they step into the classroom.

Students consistently rank **James Blatz**, civil engineering, as one of the top professors for his compelling lectures and interactive approach.

LEADING edge ACADEMIC programs

Student Achievements

University of Manitoba students are among the most accomplished in the country – and it shows. No other western Canadian university has produced as many Rhodes Scholars as the University of Manitoba. Our students use skills and knowledge acquired in the classroom and laboratory to succeed at academic, scientific and athletic competitions across Canada and around the world. Others dedicate their talents to helping those less fortunate to lead better lives. Some are recognized with awards that help them to further their studies and pursue their dreams. Their triumphs and good work make us proud and further cement the reputation of the University of Manitoba as an exceptional centre of learning.

MARKS OF ACHIEVEMENT

International

University of Manitoba computer science, engineering and physics students turned heads and won an international robot plane competition in St. Inigoes, Maryland in June, 2006. The students beat teams from Istanbul Technical University, MIT, Cornell and Virginia Tech to take home top honours at the Association for Unmanned Vehicle Systems International fourth annual student competition. The University of Manitoba's entry, nicknamed "The Turkey," won first prize and $6,500 US. Students on the team included: **Christian Asouzu, Andrew Bugera, Loren Dueck, David Duvenaud, Paul Furgale, Reza Ghorbani, Jon Kurtas, Sancho McCann, Cristian Mosquera, Shawn Schaerer, Philip Tam** and **Kory Zelickson.**

National

Architecture students took home second prize in the Leap National Competition. The Laboratoire d'etude de l'architecture potentielle (L.e.a.p.) Research Group of the School of Architecture at l'Université de Montreal challenged teams of students to think about social housing as a space for creation, innovation and criticism in Canadian cities. Of the 50 entries received from Canadian architecture graduate students, 15 were selected to proceed with their proposal. Faculty of Architecture graduate students **Tom Alston, Rebecca Loewen and Jennifer Reynolds**, under the direction of Professor **Neil Minuk**, were one of the 15 teams selected.

University of Manitoba law students placed second at the national Wilson Moot Competition held in Toronto in March, 2007. **Sarah Bahir, Allison Fenske, Eric Hachinski,** and **Jason Harvey** comprised the team. **Allison Fenske** was also awarded a Top Oralist Prize. The team is coached by Tony Kavanagh of Manitoba Justice and Professor **Debra Parkes**. The final was presided over by the Honourable Mr. Justice William Binnie of the Supreme Court of Canada.

Seven University of Manitoba Aboriginal students were among 14 recipients of the Manitoba Aboriginal Youth Achievement Awards announced in October, 2006. These awards celebrate youth accomplishments in areas like music, art, athletics and community contribution. University of Manitoba students **Christy Bird, Lindsay Campbell, Anna Nelson, William Prince, Craig Settee, Cory Simpson** and **Jennifer Storm** were among the recipients of these awards.

GRADUATES

- 170,003 graduates since 1877
- 119,892 known living alumni with current address
- 74,615 graduates living in Manitoba (56,060 in Winnipeg and 18,555 elsewhere in Manitoba)
- 34,816 graduates living elsewhere in Canada
- 5,774 in the U.S. and 4,687 throughout the rest of the world

Asper School of Business students won the Ball State University Nascent 500 Business Plan Challenge in March, 2007. **Lindsey Redding**, (left) and **Julian Klymochko**, (right) had only 500 seconds in a limousine traveling on the Indianapolis Motor Speedway to pitch their business plan to a panel of venture capitalists. Klymochko and Redding pitched Nutralease, a drug delivery system designed to improve the solubility of certain drugs in the body. The pair took home $10,000, a quart of milk, trophies and enjoyed a 100 mph victory lap in the Indy 500 pace car.

Engineering student **Andrea Kraj** was chosen to spend 10 months traveling to Denmark, Brazil, China and Egypt as part of the World Wind Energy Institute Programme. Kraj will take part in a global traineeship developed by the World Wind Energy Institute to provide students with a combination of hands-on experience and practical exposure to the best renewable energy technologies.

Athletic therapy graduates of the Bachelor of Kinesiology degree program continued to perform above the national average in their Canadian Athletic Therapists Association (CATA) certification exams. In November, 2006, **David Irwin, Cameron McGhee, Deanne Mitchell, Lori Nickel, Cornina Nicol,** and **Anna Rowes** had a 100% success rate in all three exams: field, clinic, and practical. This compares with pass rates of 55.9% (field), 57.1% (clinic) and 92% (written) for candidates from other CATA accredited institutions.

Stephanie Fera, women's studies, received an internship through the Canada Corps program of the Canadian International Development Agency. The award, valued at $12,000, will allow Fera to return to Siuna, Nicaragua, to continue the work she began as a student in women's studies "Women in Nicaragua/Women in Canada" program. Fera will work in the Siuna office of the Centre for Research and Information on Multi-Ethnic Women (CEIMM) to strengthen the centre's delivery of programs, especially to Aboriginal women in the region.

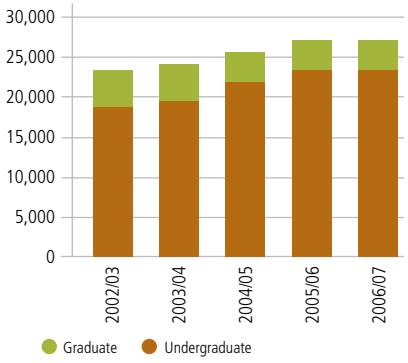
A team of food science graduate students won the 2006 Canadian Institute of Food Science and Technology (CIFST) Marvin Tung Cup Challenge. The Challenge, which tests knowledge of food science and related subjects, was a key event in the CIFST bi-annual conference in Montreal. The University of Manitoba competed against the University of Guelph, McGill University, Ryerson University, University of British Columbia, British Columbia Institute of Technology and Université Laval. The team was comprised of **Heather Maskus, Archie Mpofu, Silvi Siddhu** and **Sze Wey Ngea.**

Prateep Nayak was one of only 15 Canadian social sciences and humanities doctoral students and the only University of Manitoba student to receive a 2006 Trudeau Scholarship. The scholarship is worth up to $200,000. Nayak, a natural resources and environmental management student, is researching the loss of rights and local livelihood in fishing communities on the east coast of India. The awards support the Pierre Elliott Trudeau Foundation's goal of providing citizens of Canada and the world with a deeper experience of, and commitment to, democracy.

Natalie Rogers, a master's student in interior design, received the Ruth Binnie Fellowship offered by the Canadian Federation of University Women for her research on strategies for the creation of healthy, sustainable residences.

Students from the University of Manitoba's Asper School of Business achieved an overall pass rate of 94.9 per cent in 2006 – the highest pass rate of any school in Western Canada in 2006 (national average pass rate was 79.3 per cent) on the Uniform Final Examination of the Canadian Institute of Chartered Accountants. For the third year in a row University of Manitoba students placed substantially higher than the national average.

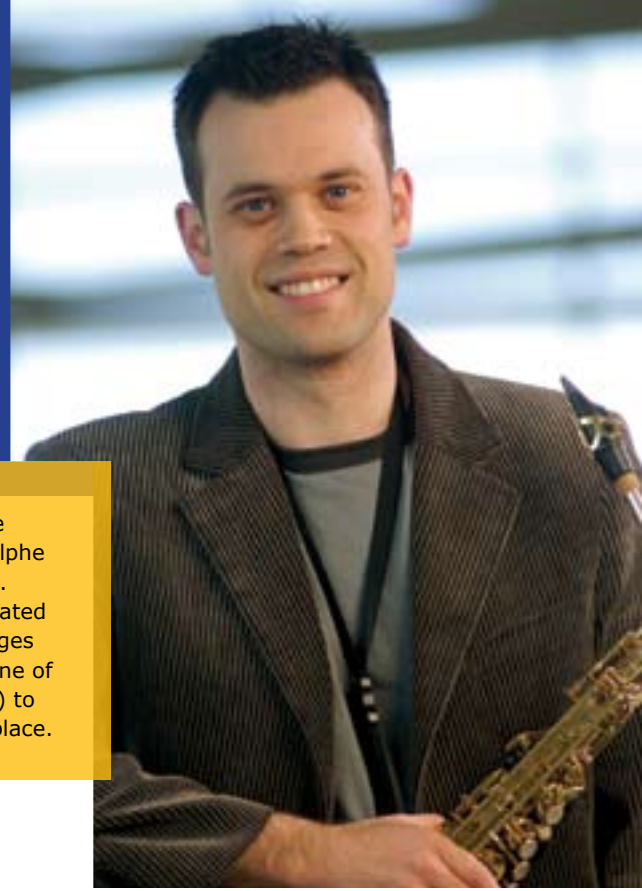
TOTAL STUDENT ENROLMENT
2002/2003 TO 2006/2007



Landscape architecture student **Alaina Prokopchuk** was the sole Canadian among five international students who presented their designs at the international conference *Tasmeem Doha 2007*, a sustainability-focused design conference in Qatar, featuring David Suzuki as a keynote speaker. Prokopchuk presented her design for a portable, inflatable water filtration unit, a system that could provide fresh water for victims of tsunamis and other natural disasters.

Faculty and Staff Achievements

Faculty and staff at the University of Manitoba are committed to providing an outstanding learning experience to our students. Their focus on teaching, research, scholarship and creative work, as well as their support for learning, is acknowledged annually. We are extremely proud of the staff of the University of Manitoba because their commitment to academic excellence is the bedrock on which the University of Manitoba stands.



Every four years saxophonists from around the globe descend on the small town of Dinant, Belgium to participate in the International Adolphe Sax Competition, the most prestigious such competition in the world. **Allen Harrington**, Music, was one of 144 saxophonists who participated in the competition. Harrington so impressed the 13 international judges over the first two rounds of the competition that he was chosen as one of the six finalists, the first Canadian (and only second North American) to ever go that far in the competition. Harrington was awarded fourth place.

MARKS OF ACHIEVEMENT

International

Nursing professors **Dean Care** and **Cynthia Cameron** received the special professorial rank of Invited Professor from Havana Medical University in recognition of their contributions to the Canadian International Development Agency (CIDA)/Association of Universities and Colleges of Canada project, *Strengthening Nursing Practice in Cuba Through Education and Research.*

Michael Campbell, Physical Education and Recreation Studies, was awarded a six-year Tier 2 CIDA grant in the amount of $999,500 to enhance rural livelihoods in Uganda through sustainable community tourism.

Colin Dawes, Professor Emeritus in oral biology, has studied the role of saliva in oral and general health since 1959. The Salivary Research Group of the International Association for Dental Research presented Dawes with the Salivary Researcher of the Year Award in June, 2006, recognizing his many years of dedication and expertise in the field. Dawes is only the second Canadian to receive the Salivary Researcher Award since it was first presented in 1982.

Lesley Degner, Nursing, Canadian Health Services Research Foundation/Canadian Institutes of Health Research chair in oncology nursing, received the Distinguished Merit Award for services to Cancer Nursing from the International Society of Nurses in Cancer Care. She was also inducted as a fellow of the Canadian Academy of Health Sciences.

Dilantha Fernando, plant science, received a Lifetime Achievement Award from the Sri Lanka Foundation, Los Angeles, California for his exceptional scientific contributions in teaching, research and service to agriculture. This is the highest honour given to a scientist by the foundation, and the first time an agricultural scientist has been honoured with this prestigious award. Fernando is a nationally and internationally recognized plant pathologist working on canola and wheat pathogens.

Bill Kops, Extended Education, received the Distinguished Service Award from the North American Association of Summer Sessions.

Romulo Magsino, Dean Emeritus of Education, was awarded the Pamana Ng Pilipino award (Legacy of the Filipino) by Republic of the Philippines President Gloria Macapagal-Arroyo at a special ceremony held at the Malacanan Palace in December, 2006. The award

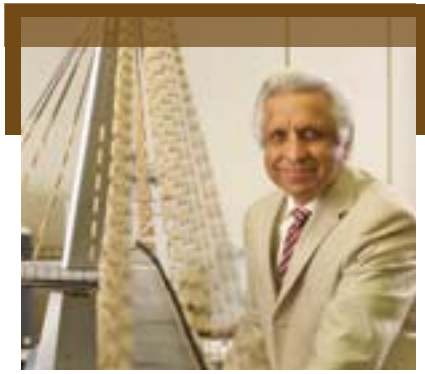
Frank Hawthorne, geological sciences, Distinguished Professor and Canada Research Chair in crystallography and mineralogy, was recognized for his internationally-acclaimed achievements in the crystallography and classification of complex minerals. In May, 2006, Hawthorne was elected as a Foreign Member of the Russian Academy of Sciences. He is only the fourth Canadian scientist to receive this honour.

is presented annually to Filipinos who have brought honour and recognition to their home country. Magsino has been with the Faculty of Education since 1988.

School of Art Director **Celia Rabinovitch** played a critical role in the Vision TV Canada series, The Secret Files of the Inquisition. The series was an international co-production/docu-drama that uncovered the personal histories of individuals touched by the Roman Catholic Church's Inquisition in the 13th century. Rabinovitch created the art database and story edited the scripts for this production, which recently won the New York Festival world gold medal for docu-drama from Canada.

John Stapleton, rector of St. Paul's College, was knighted by Pope Benedict XVI in May, 2006. Stapleton, was conferred with the Knighthood of St. Gregory the Great. He received the designation to celebrate his two-term, 10-year tenure as rector of the Catholic college and for his conspicuous service to the church and society.

University of Manitoba President and Vice-Chancellor, **Emőke J. E. Szathmáry** was presented with the Franz Boas Distinguished Achievement Award in April, 2007 from the Human Biology Association (HBA) in Philadelphia for her exemplary contributions to human biology in science, scholarship and professional service.



Aftab Mufti, civil engineering, received a lifetime achievement award from the International Institute of FRP (fibre-reinforced polymers) in Construction in January, 2007.

National

The Canadian Council of Professional Engineers (CCPE) named **James A. Blatz**, civil engineering, as the recipient of its Young Engineer Achievement Award in 2006.

In its citation, the CCPE noted that at only 32 years of age, Blatz, who specializes in geotechnical engineering, has already distinguished himself as an excellent teacher, an internationally recognized researcher, a capable administrator, a highly regarded consultant and a dedicated contributor to the engineering profession.

At the 2006 Canadian Society for Bioengineering (CSBE) annual meeting in Edmonton, **Ying Chen**, biosystems engineering, received the Glenn Downing Award. This award is presented annually for outstanding work in industry, teaching, research, or extension in the area of power and machinery.

Gary Crow, animal science, was presented with the 2006 Teaching Award of Merit from the National Association of Colleges and Teachers of Agriculture for excellence in teaching.

Heart researcher **Michael Czubryt**, physiology, was named as the recipient of the 2006 Young Investigator Award from the Canadian Cardiovascular Society.

STAFF

- 6,463 total staff members (March 31, 2007)
- 3,316 academic staff (1,706 full-time, 1,610 part-time)
- 3,147 support staff (2,594 full-time, 553 part-time)
- In addition, 1,503 employed in casual positions

University of Manitoba Chancellor **William Norrie** was awarded an Honorary Doctorate of Public Management from Pamantasan ng Lungsod ng Maynila (University of the City of Manila). The honour recognized his exemplary achievements as a community leader, especially in terms of his deep concern for the public welfare of multicultural communities and good governance in public office and higher education.

Harvey M. Chochinov, psychiatry, Canada Research Chair in palliative care, was awarded the Cleghorn Award for Excellence in Leadership and Clinical Research by the Canadian Psychiatric Association. This award recognizes Chochinov's pioneering work on defining the psychosocial parameters of end-of-life care. His research and dedication improves the quality of life for palliative patients and their families.

Jennifer Mactavish, Health, Leisure and Human Performance Research Institute, received numerous local, national and international honours and awards in 2006, including: the Harry "Red" Foster Award, Special Olympics Canada's top honour for distinguished service; the YMCA/YWCA Woman of Distinction Award (Active Living & Sport); the Special Olympics Manitoba Builder Award (distinguished service); and a four-year appointment to the International Paralympic Committee, Sport Science Committee as a result of her outstanding work in the field of sport for athletes with intellectual disability, which includes the development of a reliable eligibility system.

Hao Ding, biochemistry and medical genetics, Canada Research Chair in genetic modeling, has been named the recipient of the 2006 Boehringer Ingelheim (Canada) Ltd. Young Investigator Award in the Biological Sciences. The award is presented annually to an outstanding researcher in the biological sciences who has been a faculty member at a Canadian university for less than five years. The award consists of an unrestricted research grant of $20,000 per year for three years.

Annemieke Farenhorst and **David Lobb**, soil science, received a $1 million grant from CIDA to develop pest management practices in Central America. Twelve team members including Farenhorst, Lobb and **Laura Simms**, soil science, will work with other researchers from universities in Costa Rica, Honduras and Nicaragua to develop safer pest management practices and indicators of pesticide impact in Central America.

The Canadian Medical Association (CMA) presented the 2006 F.N.G. Starr Award to Distinguished Professor Emeritus **Henry Friesen**, Medicine. With this award, the CMA expresses its recognition for his exceptional devotion to the betterment of humanity which has made a difference in health care. Named for Frederic Newton Gisborne Starr (1867-1934), a former Secretary General of the CMA, the F.N.G. Starr Award has been described as the "Victoria Cross of Canadian Medicine".

Digvir Jayas, biosystems engineering, Distinguished Professor and Canada Research Chair in stored-grain ecosystems, was named an Agricultural Institute of Canada (AIC) Fellow. AIC Fellowships are granted to persons of integrity with noteworthy accomplishments in various areas of Canadian agriculture including scientific achievement, scholarship, leadership, breadth of knowledge and experience.

Michelle Lobchuk, Nursing, received the Outstanding New Investigator Award from the Canadian Association for Nursing Research (CANR) for Excellence in Research at the CANR Annual General Meeting held during the Canadian Nurses Association's Biennial Convention in Saskatoon, Saskatchewan.

Danny Mann, biosystems engineering, received the Canadian Society for Engineering in Agricultural, Food and Biological Systems (CSBE) Young

Engineer of the Year of Award, given to recognize the outstanding work of a young engineer of the Society for outstanding contributions to Canadian agricultural, food, and/or biological engineering.

Architecture Professor **Neil Minuk** was elected as an academician by the Royal Canadian Academy of Arts. Minuk was inducted in recognition of his significant contribution to the visual arts in Canada.

Lynn Smith, student services, was awarded the 2006 Fox 40 Kitch MacPherson Award of Excellence for her 37-year career as a gymnastics official. Her experience covers a multitude of national and international events, including World Championships in 2001 and 2003, the Commonwealth Games in 2002 and 2006, as well as every Canadian Championship since 1976. She has also been selected to officiate at the 2008 Olympic Games in China.

Asper School of Business Professor **David Stangeland** was elected to the National Board of the Certified Management Accountants of Canada (CMA). He also received the CMA Merit Award for Research and Teaching.

Mickey Wener, dental hygiene, was recognized by Dental Hygiene Educators Canada with its annual Award for Teaching Excellence in Dental Hygiene Education.

ROYAL SOCIETY OF CANADA

Harvey Chochinov, psychiatry, Canada Research Chair in palliative care, **Ellen Judd**, anthropology and **Frank Plummer**, medical microbiology, Distinguished Professor and Canada Research Chair in resistance and susceptibility to infections, were elected Fellows of the Royal Society of Canada. Election to the Royal Society is considered the highest academic honour awarded to scholars, artists and scientists in Canada. Chochinov is an international leader in the field of palliative care. Judd is a sociocultural anthropologist whose work on women in modern rural China has made a major contribution to the anthropology of societies in post-socialist transition and on gender and kinship. Plummer's studies of HIV/AIDS in Africa led to the identification of mechanisms of heterosexual transmission and ultimately to the development of highly effective interventions. His work on natural immunity in a group of HIV-resistant sex trade workers in Kenya has guided HIV vaccine research.

February 28, 2007 marked the 130th anniversary of the founding of the University of Manitoba as the first university in Western Canada. To celebrate 130 years of achievement, two birthday events were held - one at the Fort Garry Campus and one at the Bannatyne Campus. Left to right, Rennie Zegalski, President of the Alumni Association; Dr. Emőke J.E. Szathmáry, President and Vice-Chancellor of the University of Manitoba; Honorable Diane McGifford, Minister of Advanced Education and Literacy; Gary Sran, President of the University of Manitoba Student's Union.

Here's a look at a number of major anniversaries, special events and achievements observed at the University of Manitoba in 2006/2007:

The Faculty of Agricultural and Food Sciences celebrated its 100th birthday, dubbed AgCentennial 2006, in July by holding special events around Winnipeg. Close to 600 Aggie and Home Economics alumni and guests took part in the celebration. At a special reception on November 6, 2006, the 100th anniversary of the opening of the Manitoba Agricultural College, donors to the AgCentennial Scholarship Fund were recognized. The $300,000 fund from agribusiness and private donors and matched by the province, will create the AgCentennial Scholarships aimed at students entering the Faculty of Agricultural and Food Sciences degree and diploma programs.

In November, 2006, St. John's College celebrated its 140th anniversary and roots in the early years of the Red River Settlement with the release of a new book of college history by **J.M. Bumsted**, history. The book, entitled *St. John's College: The Origins of Higher Education in Western Canada*, issued by the University of Manitoba Press, chronicles the founding role of St. John's College in the establishment of the University of Manitoba.

Manitoba's First Nations communities went from having only a handful of special education teachers to over 30 thanks to a partnership between the Manitoba First Nations Education Resource Centre (MFNERC) and the Faculty of Education at the University of Manitoba. The partnership drew teachers from across the province and took them through a post baccalaureate diploma in education at the University

of Manitoba. Graduation day for the cohort was June 1, 2006 when 31 teachers received their diplomas. Similar partnerships were also formed with the University College of the North to train 35 students in the educational rehabilitation assistant diploma program, and with the University of North Dakota to ensure that three students graduated with a master's in speech and language pathology.

The University of Manitoba's long relationship with the Canadian armed forces was honoured with the presentation of the Special Service Award by the Royal Military Institute of Manitoba in 2007. The award recognizes the University of Manitoba's Canadian Forces University Program that was offered through the Division of Extended Education's Distance Education program for 33 years. It was also intended to honour the university's long involvement with the Canadian Officers Training Corps and the research produced by the Centre For Defence and Strategic Studies.

The University of Manitoba's Pharmacy students proved they are the best in Canada by pulling in a number one ranking in the 2006 Pharmacy Examining Board of Canada licensing examinations. The University of Manitoba tied for first out of seven schools with an overall pass rate of 100 per cent. The cohort included all 49 students who graduated and wrote the exam this past spring. The pharmacy exam includes a written multiple choice test and a practical objective structured clinical exam.

Allan Ronald, medical microbiology, Distinguished Professor Emeritus, a pioneer of the University of Manitoba's world-renowned infectious disease research program in Africa, was named the recipient of the 2006 Wightman Award, which is given by the Gairdner Foundation to recognize Canadians who have demonstrated outstanding leadership in medicine and medical science.

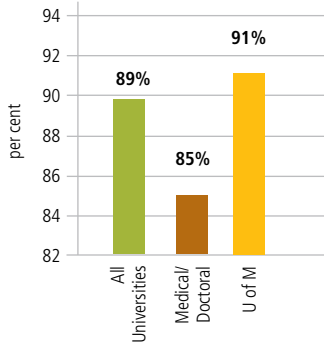
In 2007, the University of Manitoba broke virtual ground on the new Virtual Learning Commons (VLC) website that combines student academic support resources, tools designed to help students achieve academic success, and a social networking environment. Since the launch of the VLC students, faculty and staff have created personal profiles, made new friends and engaged in online discussions on academic, social and personal topics. They also use a variety of university resources and services, including an online writing tutor and an assignment manager that plans out projects, day by day. The VLC was designed and developed by the University's Learning Technologies Centre in collaboration with Student Affairs, the Libraries, The Learning Assistance Centre, Distance and Online Education and the Faculty of Graduate Studies. The VLC's innovative approach to community building has generated great interest in the educational and learning technology community and from other universities.

The University of Manitoba produced more graduates than ever last year. With 1,192 students graduating during fall convocation, the university saw a total of 4,777 students graduate in 2006 – up by nearly 100 graduates from 2005, the previous record.

The University of Manitoba Archives & Special Collections has created a digital link to the daily lives of immigrants who sought better lives on the Canadian prairies over 100 years ago. In conjunction with the University of Saskatchewan Archives and Oseredok, the Ukrainian Cultural and Educational Centre, the University of Manitoba offers approximately 15,000 archival documents which have been digitized and made available on the Internet relating to the topic of immigration in Manitoba, Saskatchewan, and Alberta. These documents include diaries, correspondence, photographs, and audio and video recordings from several collections within the holdings of these three archival institutions.

LEVEL OF SATISFACTION WITH CHOICE OF UNIVERSITY*

2006 GRADUATING STUDENTS



*Source: Canadian University Survey Consortium 2006 Graduating Students Survey

MANITOBA GRADUATE SCHOLARSHIP PROGRAM

The Manitoba Graduate Scholarship program was established by the Province of Manitoba as part of a $2 million commitment to graduate students in Manitoba. Graduate students at the master's level are eligible for awards of $15,000 per year for two years, and doctoral students are eligible for $7,500 per year for four years. In addition, doctoral students with MGS awards receive $16,000 University of Manitoba Graduate Fellowships.

MASTER'S SCHOLARSHIPS

Fardausi Akhter soil science

Jose Daniel Arango Hernandez
Social Work

Jessica Byblow psychology

Luca Coppi soil science

Lucelia De Melo
Physical Education and Recreation Studies

Darryl Draeger economics

Leon Espira physiology

Claire Fleet Social Work

Brooke Fridfinnson
agribusiness and agricultural economics

Jesse Hajer economics

Krista Hardy surgery

Rhiannon Harris
medical microbiology

Britten Harter zoology

Tiffany Rae Helgason psychology

William Hildebrande
physics and astronomy

Christopher Hoban
medical microbiology

Nathan Hoeppner history

Emily Holland anthropology

Ahmed Hoque economics

Iftekhar Hossain
electrical and computer engineering

Alison Kalischuk sociology

Pamela Klassen-Dueck English

Jillian Lemaistre
pharmacology and therapeutics

Gina Loewen linguistics

Steven Macdonald
Physical Education and Recreation Studies

Sarah MacKinnon sociology

Anna Majer medical microbiology

Mark Mateo computer science

Amber Mather psychology

Aaron Mauro English

Katherine McGarry
Physical Education and Recreation Studies

Colleen Murphy psychology

Temitope Oriola sociology

Zachary Pauls Architecture

Jamie Penner Nursing

Nuwan Perera
electrical and computer engineering

Cheryl Perrett
Physical Education and Recreation Studies

V.S. Pundi computer science

Justin Rasmussen zoology

Tara Reich psychology

Jane Ritcher psychology

Jennifer Sawyer
environment and geography

Sheila Simonson English

Haithem Soliman civil engineering

Ashley Stewart animal science

Don Hiranya Suriyaarachchi
electrical and computer engineering

David Swan zoology

Don Wijeweera
electrical and computer engineering

Tamara Young pathology

DOCTORAL SCHOLARSHIPS

Mark Belmonte plant science

Evan Booy
biochemistry and medical genetics

Apurba Deb
Natural Resource Institute

Vanessa Declerq
human nutritional sciences

Xili Duan mechanical engineering

Fawn Ginn microbiology

Tara Haynes psychology

Alexis Knispel
environment and geography

Marina Kotovshchikova
mathematics

Sameer Kumar
computer science

Zou Zou Kuzyk
environment and geography

Annette Lapointe English

Luana Leboe psychology

Nathan Lee mechanical engineering

Subba Reddy Maddika
biochemistry and medical genetics

Jarrod Malenchak
civil engineering

Ekaterina Reguir geological sciences

Heather Tiede psychology

Bobbi Walling psychology

Kerri Walters psychology

Meghan Webb
biochemistry and medical genetics

Stephanie Westlund
peace and conflict studies

Leanage Wijayartne entomology

Bradley Zacharias psychology

In an effort to ensure students have the best hands-on experience possible, the Asper School of Business introduced a new co-op program in 2006. Asper School of Business students now have the opportunity to be placed with local and national employers who sign on to offer the aspiring business professionals experience and mentorship. The program provides paid placements that are relevant to both students and the business community and it serves as a bridge between theory and practical experience.

One of Canada's most influential voices on government and the public sector, and a former high-profile cabinet minister, joined the Asper School of Business as its executive-in-residence. **Reg Alcock**, who served as Manitoba's senior federal cabinet minister as well as the President of the Treasury Board under former Prime Minister Paul Martin, joined the school in January, 2007. Alcock provides leadership and mentorship to students and faculty. The position is designed to enhance the interaction between faculty, students and the business community. Alcock joins current executive-in-residence **Charles Curtis**, former deputy minister of Finance for the Province of Manitoba.

RESEARCH

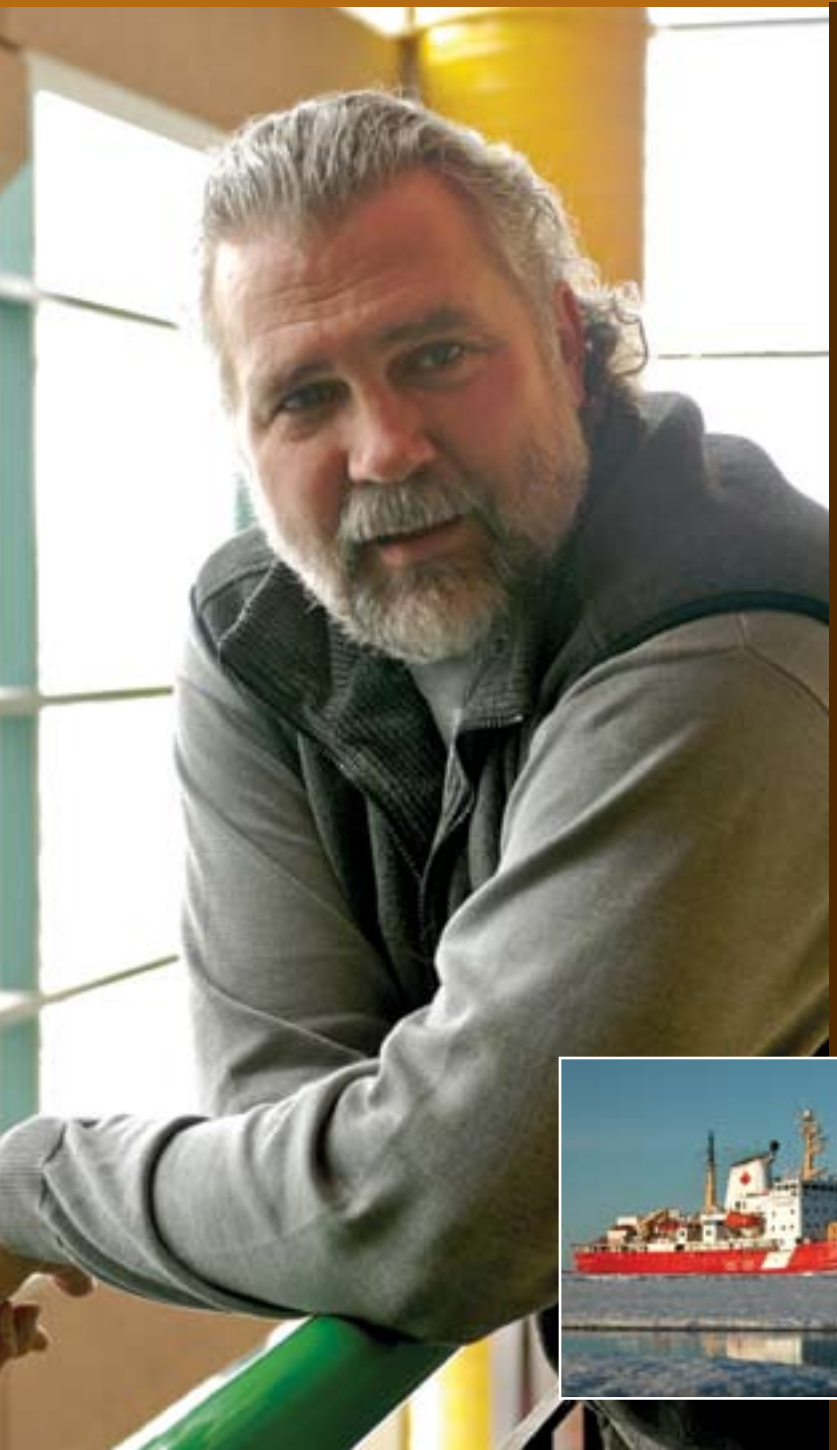
LEADING-EDGE RESEARCH, GLOBAL IMPACT

From the circumpolar Arctic to southern India, research at the University of Manitoba continues to have a global impact. More than ever before, our scientists, scholars, artists and engineers are collaborating across disciplinary boundaries, and with the support of our partners in government, business and industry, and the community, they are finding new ways to protect the environment, improve human health, advance technology, and increase our understanding of ourselves and the complex world in which we live.

James Blanchard, community health sciences, and Canada Research Chair in epidemiology and global public health, studies how communicable diseases, such as HIV and other sexually transmitted infections, spread in diverse populations, and why some communities are more at risk for non-communicable diseases, such as type 2 diabetes and inflammatory bowel diseases, than are others.

LEADING edge RESEARCH

Research Achievements



Research at the Top of the World

University of Manitoba researchers are at the forefront of an international effort to understand the effects of climate change in the Arctic.

From 2007 to 2009, countries around the world will be focusing their attention on the polar regions of our planet as part of International Polar Year (IPY). The largest project in Canada's $150 million IPY research program is the Circumpolar Flaw Lead (CFL) System Study, led by University of Manitoba researcher **David Barber**, Canada Research Chair in Arctic system science, and director of the Centre for Earth Observation Science. The project involves more than 200 scientists from 16 countries, including over 40 faculty members, research associates, graduate students, technicians and support staff from the University of Manitoba.

Based on the research icebreaker *CCGS Amundsen*, the CFL project will focus on the "flaw lead" system, a circumpolar phenomenon created when the central Arctic ice pack moves away from coastal ice, leaving areas of open water. CFL scientists will be working closely with northern residents to understand how global climate change is affecting the nature of the flaw lead system in the northern hemisphere, and how it is expected to impact the circumpolar Arctic in the coming years. The project involves over-wintering the *Amundsen* in the Banks Island flaw lead in the Southern Beaufort Sea, the first time this has ever been done.

NEW HIV/AIDS PROGRAMS IN INDIA

The University of Manitoba's groundbreaking HIV/AIDS programs in India received significant new funding support this year from the United States Agency for International Development (USAID).

Over the next five years, USAID will provide University of Manitoba researchers with $22 million US to establish new HIV and AIDS prevention, care, support and treatment programs in southern India. The project will focus on enhancing services for vulnerable and affected populations in 12 high-prevalence districts in the state of Karnataka, and in four coastal districts in the neighbouring state of Andhra Pradesh. The project builds on the University of Manitoba's international reputation as a leader in designing innovative programs to reduce the spread of HIV/AIDS in developing countries.

The University of Manitoba team is led by **Stephen Moses** (top left, facing page), medical microbiology, and **James Blanchard**, community health sciences, and Canada Research Chair in epidemiology and global public health. The project includes a variety of non-governmental and nonprofit organizations that will be working closely with the Karnataka State AIDS Prevention Society, the state government, district administrations and local community groups.

In the Faculty of Engineering, a new laboratory will give researchers across Canada remote access to state-of-the-art equipment for testing and validating chips used in wireless communication devices. Opened in September 2006, the Advanced RF Systems Laboratory is the second of four specialized test labs in Canada's $23 million National Microelectronics and Photonics Testing Collaboratory. Led by **Greg Bridges**, electrical and computer engineering, the Advanced RF Systems Lab is the result of a partnership that includes the University of Manitoba, the Canada Foundation for Innovation, the Manitoba Research and Innovation Fund, and CMC Microsystem.

State-of-the-Art Research Facilities

The Manitoba Centre for Proteomics and Systems Biology (MCPSB), one of the first centres of its kind in Canada, officially opened on June 9, 2006. A partnership between the University of Manitoba and the Health Sciences Centre Foundation, the 10,000 square foot facility brings together researchers from a variety of disciplines, and combines cutting-edge technology with advanced genomics and proteomics techniques for studies related to transplants, autoimmunity, cancer detection and treatment, and viral infections. Directed by **John Wilkins**, internal medicine, the MCPSB received a total of $7.2 million in funding from the Canada Foundation for Innovation, the Manitoba Research and Innovation Fund, the Health Sciences Centre Foundation, and industry partners.

PRIZE-WINNING SCIENTISTS

A team led by University of Manitoba researchers was awarded the Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering. Established by the Natural Sciences and Engineering Research Council of Canada (NSERC), the prize is named in honour of Canadian Nobel laureate Bertram Brockhouse, and includes $250,000 in funding for future research.

The team, which includes collaborators from MDS Sciex and Agriculture and Agri-Food Canada, is based at the University's Time-of-Flight Mass Spectroscopy Laboratory. The group was the first worldwide to determine the structure of the protein component of the SARS virus, and it has developed improvements to mass spectrometer design now incorporated into equipment used by researchers around the world.

The team includes University of Manitoba researchers **Ken Standing,** Professor Emeritus; **Werner Ens** and **Oleg Krokhin**, physics and astronomy; chemists **Harry Duckworth** and **Hélène Perreault**, Canada Research Chair in bioanalytical mass spectrometry; and **John Wilkins**, immunology/internal medicine. The collaborators include MDS Sciex researchers **Igor Chernushevich, Alexandre Loboda** and **Bruce Thomson;** and Agriculture and Agri-Food Canada scientist **Steve Haber**, as shown above with President and Vice-Chancellor Dr. Emőke J. E. Szathmáry and Dr. Suzanne Fortier, President, NSERC.

This year the University of Manitoba opened East Africa's first state-of-the-art infectious diseases research facility funded by the Canada Foundation for Innovation, the Manitoba Research and Innovation Fund and the University of Manitoba. The new building is part of the International Infectious Diseases Centre at the University of Nairobi. The new facility is one of only three in Africa capable of safely handling highly contagious pathogens, and it will play a central role in the world-renowned HIV/AIDS research collaboration between the University of Manitoba and the University of Nairobi.

UNDERSTANDING OURSELVES AND OUR WORLD

With funding support from the Social Sciences and Humanities Research Council of Canada (SSHRC), University of Manitoba scholars are working to address a wide range of issues. They include:

Etienne Beaulieu, French, Spanish and Italian, who is examining the cultural power of prose in 19th century French literature. Over the next three years, his project will receive $59, 858.

James Bugslag, Art, who will receive $71,149 over three years to catalogue stained glass preserved in Canada, some of which dates back to pre-1700.

John Godard, business administration, who is comparing industrial relations and human resource practices in different countries to identify the factors that lead to greater quality of employment. His three-year study will receive $147,701.

Yatta Kanu, curriculum, teaching and learning, who is investigating ways to foster educational success for the large number of African refugee children who come to Manitoba every year. Her three-year project will receive $123,576.

Barbara Payne, community health sciences, who will receive $148, 882 over three years for a project aimed at understanding successful aging in Manitoba, focusing on the factors that help older adults to remain healthy in later life.

Deborah Simmons, native studies, who will receive $78,584 over three years for a project aimed at revitalizing the Dene language and narratives, focusing on resilience and adaptation to a range of social changes, including self-governance.

Shirley Thompson, Natural Resources Institute, who will receive $40,000 over two years to examine community development in the northern prairies from an Aboriginal perspective, focusing on health, environmental services, culture, ecological integrity and self-sufficiency.

Ian Whicher, religion, who is investigating the tensions between the concepts of active and contemplative life, with a focus on reconciling these ideas in the context of the Yoga tradition. His three-year project will receive $59,812.

HELPING TO MAKE COMMUNITIES MORE AGE-FRIENDLY

This year, researchers at the Centre on Aging were involved in two major studies aimed at helping communities in Canada and around the world adapt to an aging population.

The first was a global study by the World Health Organization on the factors that make cities "age-friendly." This project examined more than 30 cities around the world, including Portage la Prairie, where a team led by Centre on Aging Director **Verena Menec**, Canada Research Chair in healthy aging, looked at eight major areas that impact the quality of life for people aged 60 and over. Their findings, along with the data collected from around the world, will be compiled by the WHO into international guidelines for age-friendly cities.

The second study, initiated by the Public Health Agency of Canada, focused on smaller, more remote Canadian communities. Menec's team conducted focus groups in four communities across the prairies, including Gimli, Manitoba. The data collected from this national study will be developed into an Age-Friendly Communities Guide that will be released to coincide with the WHO guidelines.

IMPROVING OUR HEALTH

This year, health researchers at the University of Manitoba embarked on a wide range of innovative programs aimed at improving the lives of people in Canada and around the world. For example:

Wayne Lautt, pharmacology and therapeutics, is examining the progression of insulin resistance to determine which metabolic disorders represent the highest risk factors for the occurrence of serious conditions like blindness and heart attack, so that more effective treatment options can be developed. His five-year project will receive $533,215 in funding from the Canadian Institutes of Health Research (CIHR).

Kathleen Gough, chemistry, is using infrared light to detect proteins in brain tissue that are associated with Alzheimer's disease. Her project will receive CIHR funding of $231,849 over the next three years.

Maureen Heaman, Nursing, is leading a comprehensive study examining the factors associated with inadequate prenatal care in eight inner-city neighbourhoods in Winnipeg. Over the next three years, her project will receive CIHR funding of $406,721.

Judith Chipperfield, psychology/ Physical Education and Recreation Studies, is studying the relationship between everyday activities and short and long-term health. The goal of her project, which will receive $238,779

NEW CANADA RESEARCH CHAIRS

The University was awarded five more prestigious Canada Research Chairs (CRC) in 2006/2007, bringing the total number of CRCs at the University of Manitoba to 47 by the end of March.

The newest chairholders are:

Trust Beta, food science, CRC in food processing and grain-based functional foods

Sean Cadogan, physics and astronomy, CRC in advanced materials

Andrew Halayko, physiology, CRC in airway cell and molecular biology

Aaron Marshall, immunology, CRC in molecular immunology

Joerg Stetefeld, chemistry, CRC in structural biology

from CIHR over the next four years, is to promote quality and vitality in later life.

Jitender Sareen, psychiatry, and **Brenda Elias**, community health sciences, are working with First Nations communities to develop culturally-sensitive suicide prevention strategies for Aboriginal people, particularly those living on reserves. Their project will receive $1,190,105 in CIHR funding over the next five years.

THE HEALTH BENEFITS OF PULSE CROPS

University of Manitoba researchers received nearly $500,000 in funding from Pulse Canada for two studies focused on the health benefits of eating pulse crops like peas, beans and lentils. **Peter Jones**, food science, Canada Research Chair in nutrition and functional foods and director of the Richardson Centre for Functional Foods and Nutraceuticals, received $250,000 for a project examining the effects of consuming pulse crops on blood cholesterol levels and other parameters related to diabetes, obesity and cancer. **Peter Zahradka,** physiology, and team leader for the Canadian Centre for Agri-Food Research in Health and Medicine at the St. Boniface General Hospital Research Centre, received $246,000 to determine the effects of daily pulse consumption on cardiovascular health, with a particular focus on blood vessel function and the prevention of atherosclerosis.

ADVANCING SCIENCE

From research at the molecular level, to studies aimed at improving civil infrastructure, our scientists and engineers continue to advance knowledge in a wide range of natural and applied science fields. For example:

Gail Davoren, zoology, is studying the breeding habits of the minnow-like capelin fish and its role in energy transfer in marine ecosystems. Her research will receive $108,750 over the next five years from the Natural Sciences and Engineering Research Council of Canada (NSERC).

WINNIPEG RH INSTITUTE FOUNDATION AWARDS

Garry Martin, psychology, Distinguished Professor, was the 2006 recipient of the Dr. John M. Bowman Memorial Winnipeg Rh Institute Foundation Award, which recognizes research accomplishments of senior faculty. Martin is one of Canada's most acclaimed psychologists, and he has earned an international reputation as a leading researcher in the fields of developmental disabilities and sport psychology. He is coauthor of *Behavior Modification*, widely considered to be the single best textbook in the field, which is now in its 7th edition and is used as a primary text at over 200 universities in 12 countries.

Six young investigators received the 2006 Rh Award for displaying exceptional innovation, leadership and promise in their respective fields: **James Blanchard**, community health sciences, Canada Research Chair in epidemiology and global public health; **Douglas Brownridge**, family social sciences; **Nazim Cicek**, biosystems engineering; **Maureen Heaman**, Nursing; **Dana Medoro**, English; and **Gary Wang**, mechanical and manufacturing engineering.

Peter Loewen, microbiology, and Canada Research Chair in protein chemistry, is using advanced x-ray crystallography techniques to characterize the proteins that protect organisms against oxidative stress. NSERC awarded him $450,000 over five years.

Neil Popplewell, mechanical and manufacturing engineering, is investigating ways to preserve electrical and natural gas infrastructure, using robots to assess pipeline quality, and developing better methods for predicting icing and vibration. His five-year project will receive $155,000 from NSERC.

Martin Scanlon, food science, is working on new techniques for characterizing the material properties of lipid food systems, which will help predict the quality of novel foods and develop effective nutrient-loading strategies. His five-year study will receive $310,000 from NSERC.

Murray Singer, psychology, is combining traditional experimentation and computer simulation to study the mental processes that permit adults to understand messages in their first language and the way that meaning is represented. His project will receive NSERC funding of $158,725 over the next five years.

Wen Zhong, textile sciences, is studying the fundamentals of fluid transport through fibrous materials and bio-membranes, examining the properties and behaviours of complex materials commonly used in medical applications. Over the next five years, her study will receive NSERC funding of $101,350.

Community of Innovators Continues to Grow

Smartpark, the university's research and technology park, saw continued growth this year, with new tenants and expanded programs and events for the university and business communities, industry, and the community at large.

Two new tenants arrived at Smartpark this year: Manitoba Education, Research and Learning Information Networks (MERLIN), which coordinates the delivery of technology services to the education community across the province, was relocated to Smartpark from its former home in the Education Building, and Monteris Medical, a medical device spin-off company from the St. Boniface General Hospital Research Centre, took up residence at 78 Innovation Drive.

This year Smartpark also assumed responsibility for the university's high-tech business incubator, which was re-named **the eureka project: Smartpark's Incubator.** The program provides space for new start-up companies created by university researchers and students, as well as community entrepreneurs, along with IT support and expert advice on everything from business plans and goal-setting, to the development of financial and marketing strategies.

Smartpark continued to host a variety of popular community outreach events, including *Smartpark's Summer Night Jazz Fest*, the *Eureka! Musica!* concerts, the *Interactive Speaker Series*, and the *Kid-Netic Energy Saturdays* program, which is a collaboration with the Women in Science and Engineering Access Program.

INNOVATIVE CANOLA RESEARCH

Plant scientist **Genyi Li**, NSERC Associate Industrial Research Chair in High Erucic Acid Rapeseed, is leading an innovative project aimed at improving canola seed for animal feed applications. By definition, canola contains lower levels of compounds called glucosinolates, which can have undesirable effects when too much is present in animal meal. Li is using genomics tools to find ways to reduce canola glucosinolate levels even more, which would improve the crop's effectiveness for animal feed without affecting its ability to produce oil. In June 2006, Li's project received $600,000 in new funding from the Province of Manitoba.

INFRASTRUCTURE FUNDING SUPPORTS CUTTING-EDGE RESEARCH

Each year, University of Manitoba researchers receive infrastructure support from the Canada Foundation for Innovation (CFI), which is enhanced by matching funds from the Manitoba Research and Innovation Fund. Researchers who received funding this year include:

Distinguished Professor **Frank Hawthorne**, geological sciences, and Canada Research Chair in crystallography and mineralogy, who received $1 million for state-of-the-art X-ray diffraction and spectroscopy equipment. These new tools will allow researchers to examine the structure of minerals and the complex reactions involved in a wide range of processes that have a significant impact on the environment, including the disposal of nuclear waste.

Can-Ming Hu, physics and astronomy, who received $98,689 to develop a microwave photoconductivity spectrometer for studying electron charge and electron spin in a wide range of materials. The new instrument will be the only one of its kind in Canada, and it will be a valuable tool for advanced research on spin-based electronics and nanotechnology.

Orjan Sandred, Music, who received $90,578 to establish a state-of-the-art computer music research studio for studying the application of mathematical models in music composition and the use of new media in music performance. The new facility is expected to be used for a wide range of local, national and international research collaborations.

NATIONAL RESEARCH DATA CENTRE NETWORK

Dean Emeritus **Raymond Currie**, sociology, leads the National Research Data Centre (RDC) Network, which received $4 million in new funding from the Canada Foundation for Innovation. Originally established in 2000, the network has grown to involve close to 40 universities across Canada. The network gives social science researchers access to comprehensive Statistics Canada data sets, provides training in the analysis of complex longitudinal data, and works to strengthen the links between social scientists and the potential users of the knowledge they generate, including governments and policy makers. Research projects are organized around several major themes, including the social determinants of health, early child development, and a variety of economic issues.

RESEARCH PARTNERSHIPS

University of Manitoba researchers are sharing their expertise with partners in industry, government and other sectors on a wide range of innovative projects. For example:

Anita Brûlé-Babel, plant science, **Fawzi Razem**, plant science, and **David Levin**, biosystems engineering, are working with Husky Energy to develop wheat crops better suited to ethanol production. Since ethanol requires higher starch content, Brûlé-Babel is developing a winter wheat with improved starch characteristics and better resistance to the fungal disease, fusarium. The project will receive NSERC funding of $847,740 over the next three years.

Annemieke Farenhorst, soil science, is investigating the impact of pesticides on prairie wetlands, working with researchers at the University of Saskatchewan, and a range of partners that include Environment Canada, Agriculture and Agri-Food Canada, Ducks Unlimited, Prairie Farm Rehabilitation and the Manitoba Zero Till Research Association. The project will receive NSERC funding of $575,168 over the next three years.

Distinguished Professor **Lotfollah Shafai**, electrical and computing engineering, and Canada Research Chair in applied electromagnetics, is working on ultra-wideband technologies (UWB) used in wireless communications. In partnership with Manitoba Hydro and InfoMagnetics Technologies Corporation, he is developing an antenna that could send and receive multiple types of signals. UWB can also be used for medical imaging, as well as for subsurface imaging and non-destructive testing and surveillance of power cables and pipelines. The three-year project will receive NSERC funding of $319,920.

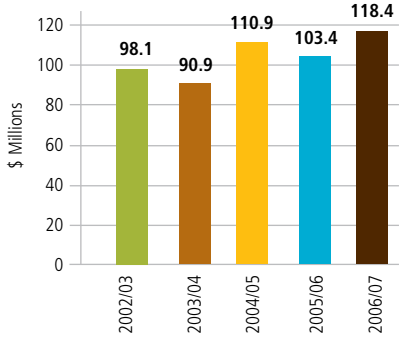
NATIONAL RESEARCH NETWORKS

The Faculty of Engineering is home to the ISIS Canada Research Network (Intelligent Sensing for Innovative Structures), one of Canada's 16 established Networks of Centres of Excellence (NCE). ISIS researchers are developing better ways to build, repair and monitor the health of civil infrastructure, including bridges and buildings.

University researchers participate in 12 other NCEs dedicated to advancing research in a range of health, technology and natural science fields. The University of Manitoba is also actively involved in three of the five NCE New Initiatives designed to encourage national collaborations and to facilitate new partnerships between university researchers and other sectors of society, including government and industry.

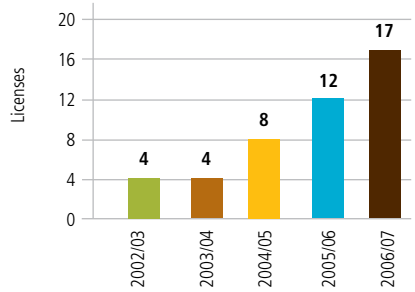
RESEARCH INCOME

2002/2003 TO 2006/2007
($ MILLIONS)



LICENSES FOR NEW TECHNOLOGIES

2002/2003 TO 2006/2007



LEADERS IN TECHNOLOGY TRANSFER

The University's Technology Transfer Office (TTO) continues to lead one of the most effective programs in the country. In 2006-2007, the TTO managed 54 new invention disclosures, issued 17 new licenses, and filed 79 new patent applications.

This year, a province-wide partnership led by the TTO expanded into Saskatchewan, the first time that a Canadian intellectual property partnership has reached across provincial boundaries.

The expansion was made possible by $300,000 in new funding from the Government of Canada's Intellectual Property Mobilization (IPM) Program, a cooperative arrangement involving NSERC, CIHR and SSHRC. Re-named the Prairie IPM Partnership, the University of Manitoba-led collaboration now includes the University of Saskatchewan, the University of Regina, the University of Winnipeg, Brandon University, Red River College, the Health Sciences Centre, St. Boniface General Hospital, and CancerCare Manitoba.

The partnership is designed to facilitate cooperation among participating institutions and to accelerate the transfer of knowledge and the development of new technologies to a commercialization stage. The expansion is expected to open up new licensing opportunities by allowing technologies to be bundled together. It will also create increased opportunities for research collaboration among the partner institutions, while activities like technology fairs in both provinces will showcase innovative research to more potential customers.

COMMUNITY

BUILDING BRIDGES, MAKING A DIFFERENCE

The University of Manitoba is an integral part of the social, economic and cultural fabric of our community. Our province's doctors, lawyers, engineers, pharmacists and other professionals, as well as a significant portion of our citizens with learning in the arts and sciences, are educated here. But there is much more to the University of Manitoba than lecture theatres, textbooks and exams. Our students and staff can be found in inner-city classrooms helping reduce the incidence of bullying. They forge partnerships with First Nations communities to whet Aboriginal students' desire for post-secondary education. Others travel to remote corners of the world to share new production techniques with farmers, establish safe drinking water supplies or to provide dental care to those who otherwise would have none. The University of Manitoba helps build community in Manitoba and around the world.

ENGAGING the COMMUNITY

Celebrating its 29th year, the University of Manitoba Mini-University program offers about 6,000 young people the opportunity to play, learn and discover in a university environment every summer. One of the first and largest programs of its kind in the world, Mini-U delivers a huge array of day camps for children 4 to 16 years old.

A hospital devoted to treating eye disorders half-way around the world in Chennai, India is being built with the help of a group of University of Manitoba interior design students. The master of interior design students have been working with Architects Without Borders to design the user-friendly eye hospital for Vision Foundation and Unite for Sight. The Vision Foundation doctors and volunteers currently work out of temporary facilities to provide free eye care to 25 low-income rural communities in India. The new 10,000 square-foot hospital will have in-patient and out-patient facilities complete with state-of-the-art technology and ophthalmic surgeons.

PROVIDING COMMUNITY CARE

The University of Manitoba Centre for Community Oral Health (CCOH) provided much-needed dental care to some of Africa's impoverished communities in February, 2007. A team of oral health professionals traveled to Ghana's Eastern and Ashanti regions where access to dental care is extremely limited. Using portable dental equipment, the team provided care for over 800 people during the two-week trip. The CCOH hopes to establish long-term relationships, with plans to regularly dispatch a volunteer team of dentists and hygienists from Manitoba. The centre has a longstanding history of providing dental services to the underprivileged in Manitoba, northern Saskatchewan and the far north. In addition to sending dentists to northern and First Nations communities, the CCOH provides dental care to 48 personal care homes, two hospitals, and many private residences in Winnipeg – reaching a segment of the population often too frail to go to a dentist's office. More than 3,300 patient visits are made each year under this Home Dental Care Program. The CCOH also recently entered a partnership with St. Amant in Winnipeg to deliver ongoing care to its special-needs residents. The CCOH has provided a similar service to the Manitoba Developmental Centre in Portage la Prairie, Manitoba for more than 20 years.

STUDENTS REBUILDING COMMUNITIES

A group of over 40 University of Manitoba students used their spring study break to travel to New Orleans in support of those hardest hit by Hurricane Katrina. The group joined other Habitat for Humanity volunteers to help rebuild homes in St. Bernard Parish, one of the areas of New Orleans most damaged by the storm. For five days in February, 2007, the group worked to build five homes and helped clean up after a tornado swept through the already devastated area. Besides their sweat equity, the group also raised over $40,000 in funds to go to the relief effort.

GAINING INTERNATIONAL PROFILE

The University of Manitoba was one of only three Canadian universities to be featured in a Chinese documentary series called "World-Class Universities." Last spring, a film crew from China's television network, CCTV, was on campus

Ten artistic University of Manitoba students received the rare opportunity to display their sculptures along Portage Avenue in a year-long art project developed by Downtown Winnipeg Business Improvement Zone (BIZ). Given the task of creating sculptures for the concrete planters along Portage Avenue between Memorial Boulevard and Main Street, the 10 students – with the help of Art Professor **Gordon Reeve** – let their imagination and talent go to work. From ottoman-sized jelly beans to a giant skateboarder to a full-sized elephant, the sculptures are diverse, colourful and creative. The pieces, which were installed in July, 2006, will remain in place until October, 2007.

Fifteen Winnipeg Grade 11 students from minority groups, including African refugees, spent their Saturdays being tutored by Faculty of Education professors. The unique University of Manitoba Community Outreach Program is aimed at improving access to higher education for under-represented groups by exposing students to university and offering them support from an early age. Several professors in the department of curriculum, teaching and learning, and some community teachers, volunteer their time every Saturday for three hours to tutor and mentor students in English, social studies, math and science. The students involved were recruited to participate in the program through their schools, teachers and parents.

gathering footage for a 20 minute segment highlighting all aspects of the university, including student life, research and academic programs. They shot footage of buildings, laboratories, students, convocation and conducted interviews with faculty members and students. The documentary aired in China on CCTV's youth network channel. Since 2000, CCTV has profiled more than 65 universities around the world, including Oxford, Harvard and Princeton.

ART GENERATING DIALOGUE

Vimy Ridge Memorial Park has a new piece of public art that does everything from looking pretty, to telling a story, to offering up a place to eat. Table of Contents, designed by Architecture Professor **Eduardo Aquino** and Architecture graduate **Karen Shanski**, resembles a giant table which eases across the lawn of the downtown park. The table is inscribed with comments, thoughts and views collected from people in the neighbourhood in a variety of languages. It was built as part of the Winnipeg Art Council's public art program.

A QUARTER CENTURY OF SUCCESS

One of Canada's most prominent business groups, The Associates, celebrated its 25th anniversary in 2007 – marking a quarter century as a model for success in bridging business education and the local business community.

From its inception in 1982, membership has grown to 220 members. A companion group, the Young Associates, was started in 1993 and now also has over 200 members. But perhaps the group's most widely known initiative is the annual International Distinguished Entrepreneur Award (IDEA) dinner, widely publicized for honouring internationally-renowned entrepreneurs like Paul Desmarais, Israel Asper, Martha Stewart and Dame Anita Roddick.

The Associates membership fees and pledges go toward an endowment gift to the University of Manitoba, with $1 million paid in annual contributions. The Associates have either contributed or been instrumental in leveraging over $40 million in financial contributions to the Asper School of Business.

Asper School of Business students buffed, polished and shined their way to a provincial fund-raising record in the 2006 Canadian Cystic Fibrosis Foundation Shinerama fundraiser. A committee of students, led by **Laura Payjack** and **Jayne Keller**, raised $25,000 – the largest fundraising effort for cystic fibrosis in Manitoba's history. The team shattered the previous record by nearly 40 per cent.

IDEA WINNER

Dominic D'Alessandro, O.C., a prominent Canadian business leader who overcame humble beginnings to achieve great success as the president and chief executive officer of Manulife Financial, was the recipient of the 2007 International Distinguished Entrepreneur Award (IDEA) presented by the Associates of the Asper School of Business. D'Alessandro, who received the Order of Canada in 2003, has led Manulife Financial since 1994, charting a course of unparalleled benchmarks in the financial services industry including growing the company into one of the most profitable life insurance companies in North America. D'Alessandro joins past IDEA recipients, including award founder Albert D. Cohen, Akio Morita, Ross Perot, Israel Asper, Heather Reisman and Gerald Schwartz.

Bison Achievements

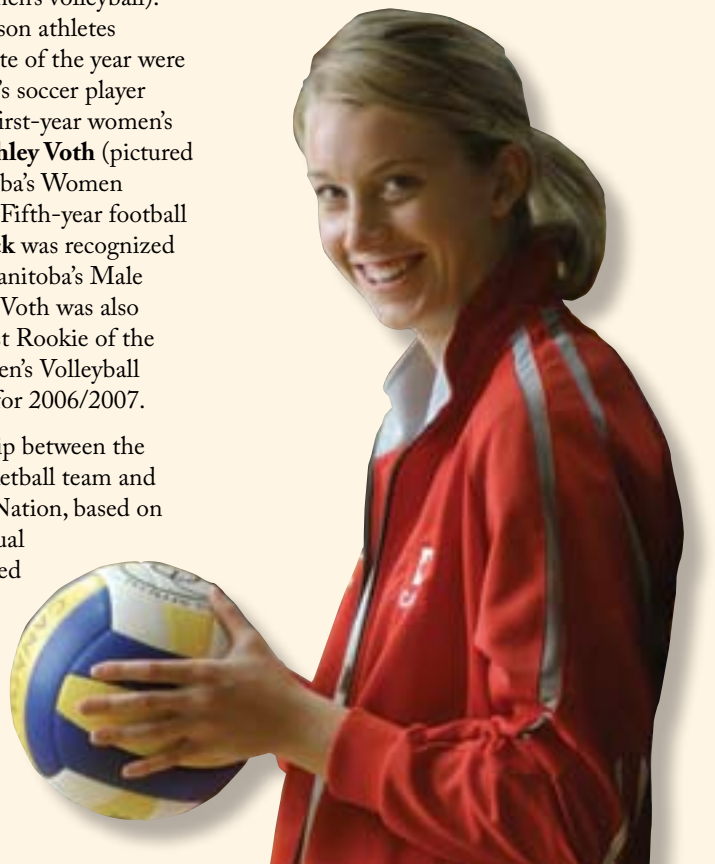
Along with a vibrant learning and research community, the University of Manitoba also has one of the strongest university athletics programs in the country. Each year, our student-athletes work hard in the classroom and on the playing field, pursuing their academic dreams while promoting "Bison Pride" around the campus and the community. Last year, the University of Manitoba was home to 68 academic all-Canadian athletes, a designation requiring a Grade Point Average of 3.5 or more. Bison Sports' teams compete in nine different sports including: basketball, cross country, football, golf, hockey, soccer, swimming, track and field and volleyball. The accomplishments of Bison student athletes speak volumes about their talent and determination.

Former Bison football star **Israel "Izzy" Idonije** made it all the way to the Super Bowl game in 2007 as a defensive tackle with the Chicago Bears. Idonije had a spectacular season with several major highlights. He signed a four-year deal with the NFL's Chicago Bears in March 2006 and played a prominent role during the playoff run by the Bears. Idonije became the first University of Manitoba Bison, first Manitoban and only third Canadian Interuniversity Sport player to play in a Super Bowl game. In addition, he was recently presented an Honorary Citizenship by the City of Winnipeg and was named the province's Male Athlete of the Year. In March, 2007, Idonije was inducted into the Order of the Buffalo Hunt, a provincial honour to recognize individuals who have made outstanding contributions to society and their community.

The University of Manitoba Bison football team was named the province's team of the year in 2006. This marks the first time that a Bison team has been honoured with this award since 2003 (men's volleyball). Other Manitoba Bison athletes nominated for athlete of the year were second-year women's soccer player **Desiree Scott** and first-year women's volleyball player **Ashley Voth** (pictured at right) for Manitoba's Women Athlete of the Year. Fifth-year football player **Cory Huclack** was recognized as a nominee for Manitoba's Male Athlete of the Year. Voth was also named Canada West Rookie of the Year and CIS Women's Volleyball Rookie of the Year for 2006/2007.

A unique partnership between the Bison women's basketball team and the Skownan First Nation, based on friendship and mutual respect, was cemented in October, 2006 when the team was presented with its own "herd" of bison.

The team, coached by **Pam Danis**, started the community outreach program at the First Nation during the summer of 2006, which included a basketball camp and a retreat. There, the team learned the Skownan community had taken part in a project to introduce a herd of wood bison onto their land. In October, 2006, that herd became the official herd of the University of Manitoba Bison women's basketball team in a formal ceremony on campus. The Skownan First Nation presented a bison head as a sacred gift to symbolize respect for the friendship established between the team and the community. The team intends to maintain its close ties with the Skownan First Nation and hopes the relationship will result in more of the community's students opting to pursue a post-secondary education.



Brian Dobie (left), **Jon Rempel** (centre), **Ken Bentley** (right)

Talk about a triple-threat

Three University of Manitoba Bison coaches received high honours for their work in the 2006/2007 season.

Bison women's volleyball head coach **Ken Bentley** was named Canadian Interuniversity Sport (CIS) Women's Volleyball Head Coach of the Year for 2006-2007. In his 20th season with the Herd, Bentley earned his second CIS honour, as he was named CIS Coach of the Year in the 1991/1992 season. During the 2006/2007 season, Bentley coached Manitoba to the Canada West regular season title with an 18-2 record, a number one ranking and a berth into the nationals for the first time in five seasons. Bentley is the only coach to have qualified for 16 consecutive CIS National Championships (1986/1987 to 2001/2002). During those 16 years, the Bison Women won five National Championships (1990, 1991, 1992, 2001, 2002).

Brian Dobie, in his 11th season with the Bison football team, was named Canada West Football Head Coach of the Year for the 2006 campaign. He has earned this conference award for the fifth time in the last eight seasons. He won four consecutive Canada West Coach of the Year awards during the 1999, 2000, 2001 and 2002 seasons. In 2006, Dobie coached Manitoba to its second undefeated 8-0 mark and they finished with the number one ranking in the final CIS poll of the 2006 season.

Bison women's hockey head coach **Jon Rempel** was named the Canada West Female Hockey Coach of the Year for 2006/2007 season. This is the second time he has earned the award. The 2006/2007 season was another successful season for the Bisons as Rempel guided the squad to a 15-9-0 record and a berth into the CIS Championship with a win over Regina in the Canada West Semi-Final.

Bison football player **Nathan Friesen** received an impressive honour in 2006. The third-year Asper School of Business student was the first quarterback to win the Wally Buono Award for Canada's top junior football player. Recipients must prove their athletic and leadership ability on the field as well as a high level of leadership within their community.

Basketballer **Rachel Hart** was selected as 2006/2007 CIS Defensive Player of the Year. She is the first Bison to claim the award since its inception in 2001/2002. She was also named 2006/2007 Canada West Defensive Player of the Year and Second Team All-Star. Hart finished her fourth season with the Bisons and continues to put up impressive numbers on both the defensive and offensive ends of the court.

University of Manitoba Bison swimmer **Landice Yestrau** was the fourth Manitoban to earn the prestigious Roland Michener Canada Games Award in 2006, presented every two years to two Canada Games athletes, one male and one female, who exemplify strong leadership skills on and off the playing field, combined with an ongoing commitment to scholastic and athletic excellence.

OUTREACH AWARDS

Thirteen staff members of the University of Manitoba were recognized in 2006 for their outstanding community involvement through the university's annual Outreach Awards:

James Blatz,
civil engineering

Elizabeth Comack,
sociology

James Dietrich,
electrical and computer engineering

Dilantha Fernando,
plant science

Khalida Hai-Santiago,
Centre for Community Oral Health

Richard Holley,
food science

Kristina Hunter,
environment & geography

Terry Janzen,
linguistics

Maureen Rodrigue,
Faculty of Physical Education and Recreation Studies

Chris Rutkowski,
public affairs

Marilyn Seguire,
Nursing

Merlin Shoesmith,
Clayton H. Riddell Faculty of Environment, Earth, and Resources

Wanda Wuttunee,
native studies

Alumni Achievements

For 130 years, the University of Manitoba has been attracting and nurturing community leaders, Rhodes Scholars, champion athletes, world-class scholars, writers, artists and academic experts. Our alumni are making their mark and improving communities around the world. They all have one thing in common – they got their start at the University of Manitoba.

International

Lorne Golub, DMD/63, MSc/65, received the 2006 American Dental Association (ADA) Gold Medal Award for Excellence in Dental Research and was appointed to the ADA Council on Scientific Affairs.

General Raymond Henault, BA/92, LLD/04, chairman of the military committee, North Atlantic Treaty Organization (NATO) and its most highly ranked military officer in 2006 was named honorary professor of the University of Pécs, Hungary's oldest university.

Gilbert B. Laurin, BA(Hons)/67, was appointed as Ambassador & Permanent Delegate of Canada to the United Nations Educational, Scientific and Cultural Organization (UNESCO) based in Paris, France.

Heather Parker, MD/79, was awarded the Order of Australia Medal in the Queen's Birthday Honours list for "services to medicine as a GP and to aviation."

Hector Vergera, BA/90, BRS/92, was one of 81 match officials who were selected to work the World Cup soccer tournament in Germany. Vergara, is also the chief administrative officer of the Manitoba Soccer Association. He has been involved in officiating over 90 international matches, including working the 2002 World Cup and the 2004 Athens Olympics.

Tim Gardner, BFA (Hons)/96, is the only contemporary Canadian artist to have had his works exhibited in the National Gallery in London, England. The exhibit was held between January 17 and April 15, 2007. Gardner's watercolour paintings have been described by critics as "profound."

National

Constance Backhouse, BA/72, was awarded the 2006 Trudeau Foundation Fellows Prize for her internationally-recognized work in the areas of sex discrimination, feminist history and the legal history of race and gender in Canada. She was also awarded the 2006 Ramon John Hnatyshyn Award for Law in recognition of her outstanding contribution to legal scholarship in Canada.

Major-General J.J.C. Bouchard, CMM, CD, BA/00, was promoted by the Governor General to the rank of Commander within the Order of Military Merit.

Daniel Klass, BA/63, BSc(Med)/67, was awarded an Honourary Diploma of Health Science from The Michener Institute for Applied Health Sciences.

Ken Kliewer, MD/73, was named one of the country's 10 Family Doctors of the Year by the College of Family Physicians of Canada.

Danys Lachance, BEd/94, PBDipEd/05, received the Prime Minister's Award for Excellence in Teaching.

Major Robert Mitchell, BA/03, was appointed as the Team Lead and Commanding Officer of 431 (Air Demonstration) Squadron, the Canadian Forces Snowbirds.

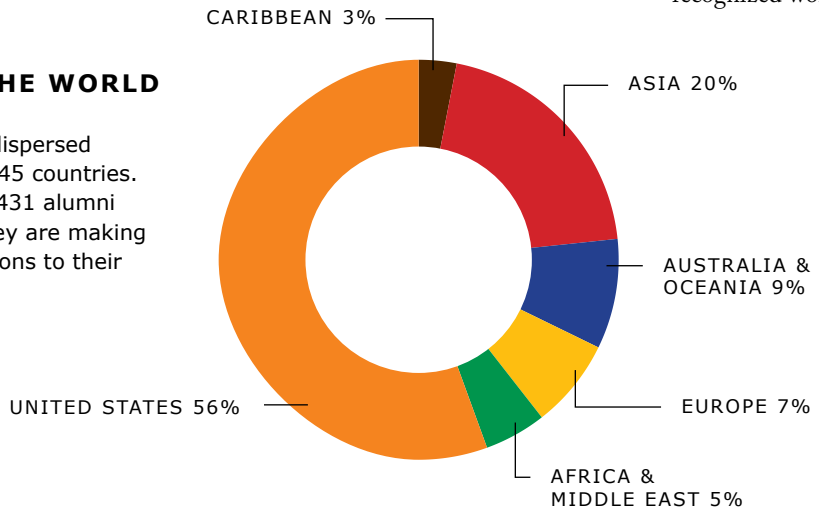
William Neville, BA(Hons)/63 and political science professor, received the 2006 Gabrielle Leger Award from the Heritage Canada Foundation.

Richard Linley, BES/80, MArch/84, **James Weselake**, BArch/66**, Scott Stirton**, BES/85, MArch/88, of Smith Carter Architects & Engineers Inc. were awarded a 2006 Governor General's Medal in Architecture for design of the SC3-Smith Carter office.

Denis St-Onge, OC, BA(LatPh)/51, LLD/90, received the Royal Canadian Geographical Society's Camsell Award in recognition of outstanding service.

At HOME IN THE WORLD

10,462 alumni are dispersed outside Canada in 145 countries. Along with the 109,431 alumni living in Canada, they are making important contributions to their communities.



ALUMNI APPOINTED MEMBERS OF THE ORDER OF CANADA

- **Catherine (Kiki) Delaney**, CM, BA/69
- **John H. Dirks,** CM, BSc(Med) and MD/57
- Major-General (Ret'd) **Lewis W. MacKenzie**, CM, OOnt, MSC, CD, BA/88, LLD
- **Roy Miki**, CM, BA/64
- **Hartley T. Richardson**, CM, BComm(Hons)/77, LLD/04

ALUMNI APPOINTED TO THE ORDER OF MANITOBA

- **Gail S. Asper**, OM, BA/81, LLB/84
- **Ivan Eyre**, OM, BFA/57
- **Janice Filmon**, OM, BSc, HEc/63
- **John A. Jack**, OM, BA/76, BEd/78
- **Verna Kirkness**, OM, BA/74, BEd/76, MEd/80
- **Paul Thomas**, OM, BA(Hons)/66, MA/68

Thank you to all donors!

The University of Manitoba raised $25 million in 2006-2007. We thank our many donors, whose generosity will have a positive impact on students, faculty and staff for many years to come. The following are just some of the outstanding gifts made last year:

$2 million from the department of internal medicine faculty members towards the Chair in Health Services and Quality Improvement. The **Winnipeg Regional Health Authority Internal Medicine Program**, in partnership with the Health Sciences Centre, provided an additional $1 million. The chair will conduct research on health care systems and look for ways to improve health care delivery.

$1 million from Arthur Mauro (BA/49, LLB/53, LLM/56, LLD/87), Chancellor Emeritus, to the Arthur V. Mauro Centre for Peace and Justice at St. Paul's College, along with a challenge for others to match his donation. The pledge will be divided with $800,000 designated to scholarships and bursaries, which will be matched by the Manitoba Scholarship and Bursary Initiative, and $200,000 allocated for outreach initiatives, such as Winnipeg's International Storytelling Festival, the Sol Kanee Speakers Summit, lectures and internships.

$550,000 from Manitoba Pork Council to the Glenlea Farm Education Centre, to be constructed at the university's research and teaching facility just south of Winnipeg. The centre will feature hands-on displays for the public to learn about livestock and food production. **Bruce Campbell** (BScAg/58, LLD/07) also donated $500,000 to Glenlea and **Manitoba Agriculture, Food and Rural Initiatives** pledged a further $900,000 in May, 2007.

$550,000 estate gift from Ronald Ironside (BSc/41) to the Isbister Scholarship. Ironside was himself a recipient of the scholarship, which continues to reward promising students regardless of race, creed, language or nationality. Ironside also left an estate gift to his grade school in Scotland – a donation prompted by a tin of cookies he bought from his homeland.

$555,584 estate gift from Stewart Pugh (BSA/40) to Archives (Elizabeth Dafoe) and $278,626 to the Stewart Pugh External Study Scholarships fund. The award will help cover travel costs for students to make short-term visits to another university or institution, in Canada or abroad, to enhance their studies in agricultural or food sciences.

$497,341 from Ruth (BPE/81, BRS/83) and **David** (BA/80) **Asper** to be split between the Ruth Asper Award in Physical Education and Recreational Studies and the David Asper Award for Bison Football.

$360,000 from T.D. "Davey" Einarsson (BSc/56) to the Bison women's volleyball program, to be matched by the Manitoba Scholarship and Bursary Initiative. This marks the single largest individual donation in Bison Sports history. Twelve scholarships will be presented each year under the T.D. "Davey" Einarsson Bison Women's Volleyball Endowment Fund.

ADMINISTRATION

WORLD-CLASS FACILITIES, IMPROVING TECHNOLOGY TO MEET THE NEEDS OF THE 21ST CENTURY

With a population that makes it in essence Manitoba's third largest city, the University of Manitoba is a bustling knowledge community with an international reputation and reach. The University of Manitoba continues to forge ahead with improvements to campus infrastructure, often with the generous support of private and public partners. These infrastructure improvements ensure the University of Manitoba continues to offer its faculty and students the best possible facilities in which to study, work, learn and thrive.

Researchers and students work inside the new Barbara Burns Food Innovation Laboratory, located in the Human Ecology Building. The new facility might look like a kitchen but it has all the ingredients of a world-class laboratory.

A LEARNING ENVIRONMENT

AWARDS OF EXCELLENCE

The President's Award of Excellence recognizes outstanding contributions to the University of Manitoba mission and goals during a career at the University of Manitoba.

- **Brian Rivers**, physical plant

The Leadership Award recognizes a staff member who has inspired collaboration and creativity in team members.

- **Dan Hiebert**, administrative systems
- **Nancy Klos**, research services
- **Marvin Kocay**, administrative systems
- **Gord Pasieka**, financial services

The Service Award recognizes a high level of initiative, dedication, and cooperation in service to students, faculty, staff, and the general public.

- **Terri Garner,** animal science
- **Louise Graham**, Education
- **Lawrence Grimshire,** physical plant
- **Kirk Marat,** chemistry

The Team Excellence Award recognizes teams that have provided outstanding service for the benefit of students, departments, or the general public.

- **The Aurora Finance Implementation Team**

New Pharmacy Facility for Bannatyne Campus

Construction on the new pharmacy building is underway. The Apotex Centre will be the new home of the Faculty of Pharmacy when it is completed, in the fall of 2008. The official ground-breaking for the new facility took place on June 27, 2006. The 70,000 square foot building will house new, state-of-the-art laboratory space as well as lecture theatres and research space. Relocating the Faculty of Pharmacy to the Bannatyne Campus also gives students the chance to more closely collaborate with others in the faculties of Dentistry and Medicine.

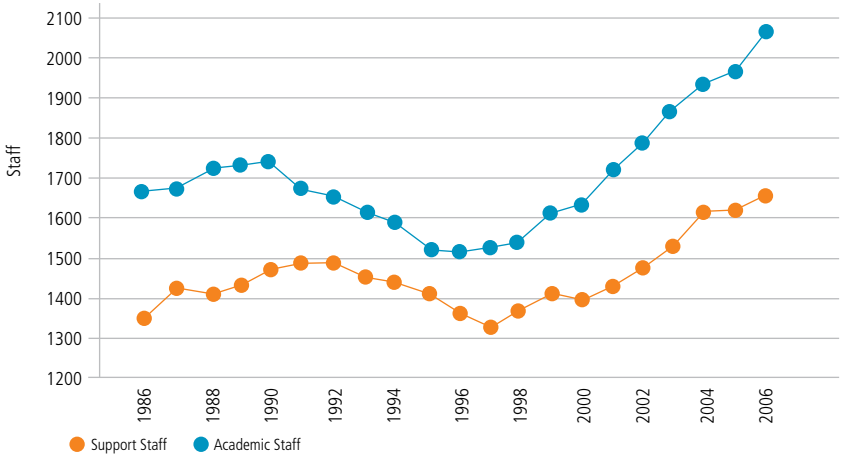
The new facility will double the teaching and research capacity of the current pharmacy building. It will include advanced lecture theatres, an undergraduate teaching laboratory with bench space for 75 students, a manufacturing lab designed to provide hands-on experience in table and sterile formulation production, a pharmaceutical care lab with a simulated dispensary system and patient counselling area, and a research centre for new drug development and delivery systems.

Infrastructure highlights 2006/2007

- Completion of the Engineering and Information Technology Complex
- Completion of the Richardson Centre for Functional Foods and Nutraceuticals
- Completion of the Russell Building upgrade
- Construction of the Bannatyne Campus Parkade
- Work on the first phase of the Buller Building Redevelopment began in 2006/2007
- Construction began on the Apotex Centre to house the Faculty of Pharmacy and provide additional space for the Faculty of Medicine
- Construction of the Aboriginal Students' Centre began in January 2007
- Construction began on the Library Storage Facility attached to the Elizabeth Dafoe Library
- Work began on the #1 Outfall Pumping Station on the south side of the Fort Garry Campus
- The final phase of the upgrades to the chilled water plant and distribution upgrades were carried out at the Bannatyne Campus involving upgrades in Dentistry and Pathology

HISTORICAL COMPARISONS OF ACADEMIC & SUPPORT STAFF POSTIONS

1986 TO 2006



1. The above represents full time equivalent operating budget positions and excludes Ancillary Enterprises.
2. Support staff are defined as non teaching positions in the Faculties, Schools & Colleges as well as Financial Services, Human Resources, Information Services & Technology, Physical Plant, Student Services, University Services, the Office of the President and Academic Librarians.

GREEN INITIATIVES CONTINUE TO GROW

We're growing, but our environmental footprint is getting smaller. Ten years ago the university invested $13 million in a utility savings plan that looked at everything from upgrading light fixtures, to converting older, inefficient ventilation systems to more efficient models. For the last three years, annual savings have exceeded $3 million in avoided utility costs. Even more impressive, physical plant has managed to reduce annual greenhouse gas emissions by an average of 8 per cent from 1990 levels and that's despite the fact the university has grown by 10 per cent during the same period.

Last spring, the waste prevention office began its pre-consumer composting program in partnership with the University Centre food service operations and the University of Manitoba Recycling and Environmental Group - UMREG. The program involves collecting the food waste that kitchens generate during preparation, such as banana peels, carrot tops, and broccoli stocks and the coffee grounds generated at IQ's and Degrees. To date the program has diverted more than five tonnes of waste from the landfill.

TEXTBOOKS BECOME A THING OF THE PAST

For the first time ever, University of Manitoba Dentistry students no longer have to buy textbooks. First year students instead purchased laptop computers loaded with VitalSource software, giving them access to 59 digital textbooks. The move is part of the Faculty of Dentistry's initiative to incorporate cutting-edge technology into its curriculum. This past summer, the faculty's 48-year-old building was upgraded to a wireless facility.

BREAKFAST AND BRAINSTORMS

The University of Manitoba's Government Relations Office, in partnership with the Council on Post-Secondary Education, sponsors a Breakfast & Brainstorms Speaker Series at the Manitoba Legislative Building. The series is designed to bring public policy decision makers and influencers together with University of Manitoba researchers. Session topics have included family violence, climate change, and livestock and the environment.

NEW FOOD INNOVATION LABORATORY OPENS

The new Barbara Burns Food Innovation Laboratory gives students critical experience in preparing food and modifying it for dietary and health benefits. Students learn food's fundamental characteristics which determine their role in processing, product development and consumer appeal. Along with bolstering the research strength of the Faculty of Human Ecology, the lab is also used by researchers from the Richardson Centre for Functional Foods and Nutraceuticals and the Agriculture and Agri-Food Canada Cereal Research Centre. The laboratory was made possible with the help of a $200,000 donation from the Burns family. **Barbara Burns** graduated from the University of Manitoba in 1950 with a Bachelor of Home Economics and later received a Master of Science in dietary science at the University of Minnesota. She began her career in dietetics in a hospital in Providence, Rhode Island, but later returned to Winnipeg and worked at Deer Lodge Hospital.

AURORA UP AND RUNNING

The Aurora student information system was introduced in July 2006. The new system allows students, faculty and advisors to conduct much of their administrative business online. Through Aurora, students are able to access registration functions and information on their academic programs 24 hours a day, seven days a week. Several services for instructional staff and academic advisors have also been made available in a more user-friendly web-based format. Aurora Finance also went live last year giving university staff a new platform to view budget information and do financial transactions. Work continues on the implementation of additional modules of Aurora, such as grading, academic assessment and transcripts.

SUPPORT FOR ABORIGINAL STUDENTS AT BANNATYNE CAMPUS

A new facility that offers dedicated support to Aboriginal students enrolled in health education degree programs opened on September 20, 2006, at the University of Manitoba's Bannatyne Campus. The Centre for Aboriginal Health Education supports students by offering ongoing professional development and networking opportunities.

UNITED WAY

The University of Manitoba raised a record-breaking $411,816 in the 2006 **United Way** campaign, eclipsing the previous year's tally by nearly 5 per cent. **Dennis Hrycaiko**, dean of Physical Education and Recreation Studies, and **Rosalyn Howard**, director, learning and development services were the campaign co-chairs for the Fort Garry campus. **Janice Dodd**, physiology, chaired the Bannatyne campus campaign and **Irv Gusdal** chaired the retirees' campaign.

FINANCIAL REPORT

The following provides an overview of the financial results of the University for the fiscal year ended March 31, 2007. The University has successfully moved forward in achieving its vision over the past fiscal year.

Investing in Manitoba's Future

For fiscal year 2006/2007, total University revenue in all of its Funds (unrestricted and restricted) was $603.6 million, an increase of 3.4% over 2005/2006 revenue of $583.5 million. Approximately $274.4 million or 45.5% of the University's total revenue comes from the Province of Manitoba through the Council on Post-Secondary Education (COPSE), Manitoba Health, Manitoba Student Aid, Agriculture and various provincial councils and funds in support of teaching, innovation, capital and research. In addition, in fiscal 2006/2007 the University received the second $75 million tranche of 30 year debt provided by the Province, fulfilling the commitment to provide $150 million of debt financing. These proceeds are being used on new building construction, deferred maintenance, technology and health and safety projects. In 2006/2007, debt proceeds were used to start the Aboriginal Students' Centre, to continue construction of the Apotex Centre, to complete the Engineering and Information Technology Complex, the Richardson Centre for Functional Foods and Nutraceuticals, and the parkade at Bannatyne Campus, and for technology improvements to bring building cabling and classrooms up to date and to begin to address long standing deferred maintenance and health and safety issues on the aging Fort Garry and Bannatyne campuses.

Students, through their tuition and incidental fees, also provide a major source of revenue in support of the University's operation, with $101.3 million being assessed and collected in 2006/2007, an increase of 5.0% over 2005-2006 fees of $96.5 million. Fees represent about 16.8% of total revenues.

The Government of Canada is also a major supporter of the University of Manitoba. In 2006/2007, contributions of $71.3 million, or 11.8% of total revenues were received, relating to specific research projects awarded through the federal granting councils ($54.7 million), special project funding of $3 million for programs such as the Northern Medical Unit, major capital projects and awards under the Canada Foundation for Innovation and Western Economic Diversification programs ($4.7 million), the Indirect Costs of Research program ($8 million) and other smaller programs such as Careerstart.

The University of Manitoba also received $79.0 million in contributions, donations and grants in support of research, special projects and initiatives, capital, chairs, scholarships, bursaries and staff benefits in 2006/2007 from our generous individual and corporate donors, contributors and employees. This represents 13.1% of total revenue. Most of this revenue is restricted for various purposes by the donor, contributor or employee (as is the case for employee contributions to staff benefits plans) and as such cannot be used to support the general operation of the University.

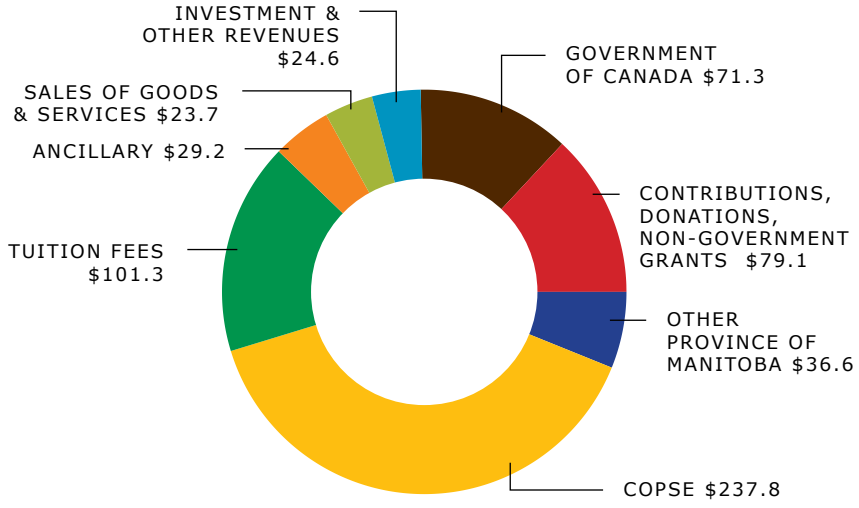
The University's Ancillary Services, which are comprised of the Book Store, Residences, Parking and Pharmacy generated $29.2 million or 4.8% of total revenue in 2006/2007. Ancillary Services are completely self-sustaining and contribute to the University's operation by covering their share of overhead in addition to their direct costs, as well as the capital costs of refurbishing Ancillary facilities, acquiring equipment and building and upgrading parking lots. They also support non-revenue generating units such as Security Services.

The sale of various goods and services generated 3.9% of total revenues in 2006/2007 or $23.7 million for many faculties and schools, supplementing the resources that are available to them for operating purposes while at the same time providing valuable linkages to the community. In addition, investment income and other miscellaneous revenue of $24.6 million or 4.1% of total revenues were generated from the investment of general, capital, staff benefits and trust and endowment cash on hand.

FIGURE 1

TOTAL REVENUE – ALL FUNDS ($603.6M)
(General Operating $406.2M; Restricted $187.0M; Endowment $10.4M)

March 31, 2007



The chart in **Figure 1, Total Revenue - All Funds** is a pictorial representation of the revenues of the University from these various sources.

University Operating Results

The operating results of the University of Manitoba for fiscal year 2006/2007, shown on a comparative basis with 2005/2006, are summarized in **Table 1**, General Operations, together with the April 1, 2006 Board of Governors approved operating budget. Operating revenues are shown by source, and expenses by function and type, to provide an overview on how the University spends its resources in the General Operating Fund.

TABLE 1

General Operations Summary Statement
(in thousands of dollars)

	April 1, 2006 Budget	March 31, 2007 Actual	March 31, 2006 Actual
Revenue:			
COPSE	$ 228,956	$ 229,104	$ 215,393
Tuition Fees	103,858	101,342	96,462
Ancillary Services	28,506	29,191	29,566
Sales of Goods & Services	19,702	23,746	21,790
Investment & Other Revenues	2,683	9,343	6,749
Government of Canada	6,895	8,930	7,184
Other Province of Manitoba	2,246	4,573	3,626
	392,846	406,229	380,770
Expense by Function:			
Instruction	$ 202,770	$ 223,013	$ 213,796
Plant Maintenance	37,512	37,355	32,282
Ancillary Services	26,629	25,157	25,814
Administration	27,202	25,052	23,376
Other Academic Support	18,323	18,461	18,990
Student Affairs	15,812	17,558	16,908
Libraries	22,170	15,053	14,206
Scholarships, Bursaries, Prizes and Awards	3,696	3,475	3,444
Other	5,606	645	5,742
Property Tax	600	345	868
Central Reserves *	26,277		
	386,597	366,114	355,426
Net Revenue	6,249	40,115	25,344
Net Transfer to/from Other Funds	(6,249)	(40,071)	(25,048)
Net Increase to Fund Balance	$ -	$ 44	$ 296
Expense by Type:			
Salaries & Wages	$ 218,726	$ 245,599	$ 232,445
Supplies and Expenses	96,470	45,793	47,921
Staff Benefits	30,382	36,719	35,262
Ancillaries Cost of Goods Sold	14,698	14,790	15,637
Utilities	17,331	14,107	14,832
Payroll Tax Levy	4,694	5,287	5,017
Scholarships, Bursaries, Prizes and Awards	3,696	3,475	3,444
Property Tax	600	344	868
	$ 386,597	$ 366,114	$ 355,426

* Represents funds budgeted for distribution to unit budgets during the year for salary and contract increases and other centrally funded initiatives.

As detailed in **Table 1**, general operating expenses increased by $10.7 million or 3.0% in fiscal 2006/2007 over 2005/2006. In the review of operating expenses by function, about $9.2 million of the increased expense is attributable to the instruction of students, $5.1 million to plant maintenance, $1.7 million to administration (which includes support units such as Financial Services, Human Resources, Development and Advancement Services). Other expense reflects a change in the actuarially determined Staff Benefits contra expense of $5.1 million year-over-year which partially offset these increases. In the review of expenses by expense type, salary, benefits and payroll tax costs increased by $14.9 million resulting from salary increases and increased staff numbers in 2006-2007 and this was offset by year-over-year reductions in Supplies and Expenses of $2.1 million and reduced costs for Ancillaries, Cost of Goods Sold, Utilities, and Property Taxes. Details on operating expenses by unit, are included in Schedule 7 of the annual Financial Report.

FIGURE 2

GENERAL OPERATING FUND REVENUE BY SOURCE (TOTAL $406.2M)

March 31, 2007

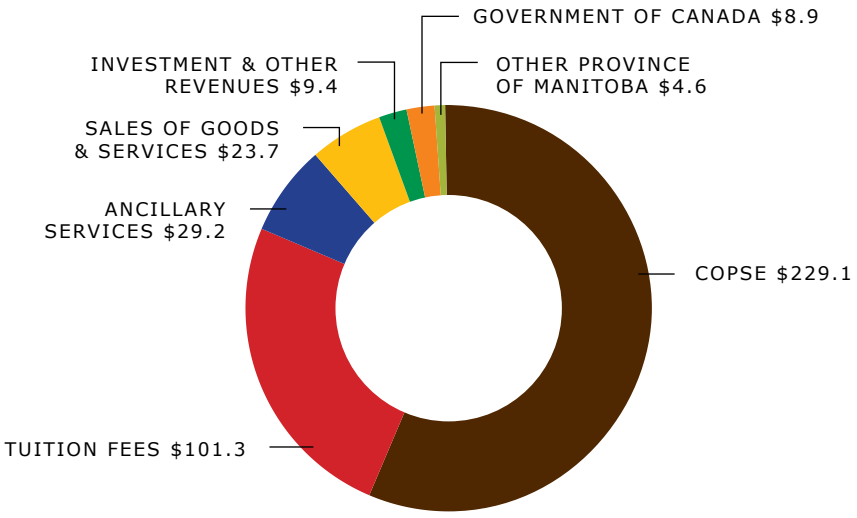


FIGURE 3

EXPENSE BY FUNCTION (TOTAL $366.1M)

March 31, 2007

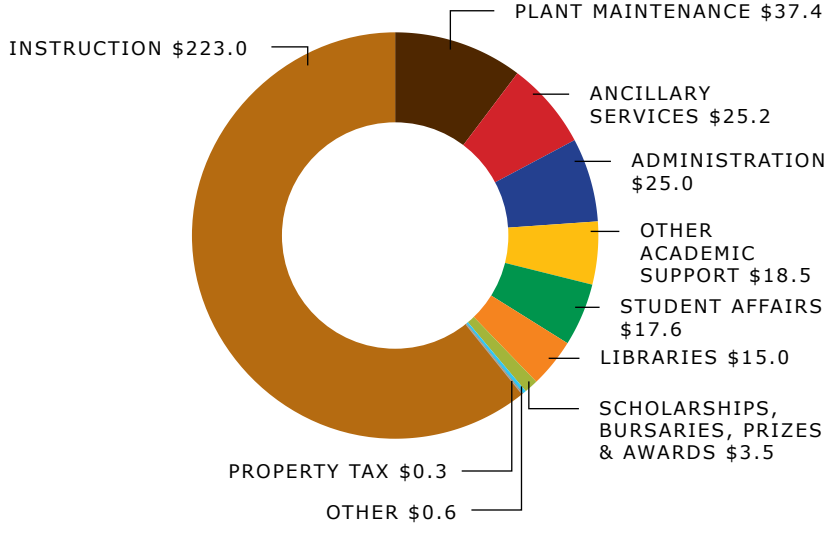
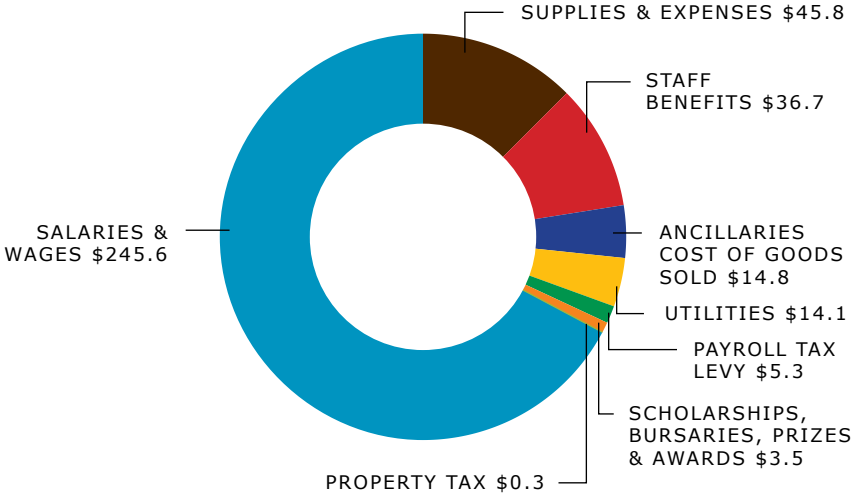


FIGURE 4

EXPENSE BY TYPE (TOTAL $366.1M)

March 31, 2007



Staff

The University of Manitoba's most valuable resource is its faculty and staff who bring their knowledge, expertise and commitment to the table. Salaries, wages, benefits and payroll tax represents about 78.5% of the current year's operating expenses. Of the 3,730 full time equivalent (FTE) staff the University employed during the year, 1,658 were academic and 2,072 were support staff. This represents a net increase in faculty and staff of 146 FTE positions over 2005/2006. Ancillary Services employed a further 132 FTE staff, a decrease of 6 FTE over 2005/2006.

Students

Student enrolment peaked in 2005/2006 and the University experienced a decline in 2006/2007. At 26,080 FTE students, enrolment has declined by 1.7% from 2005/2006. Two categories of students increased; part-time undergraduate and full-time graduate students, while all other categories experienced modest declines.

After eight consecutive years of growth, this year's net decline in enrolment is attributed to shifting demographics in Manitoba and Canada. Even last year, much of the growth was the result of sharp increases in international students and not in domestic student enrolment. Opportunities for higher enrolment are now largely dependent on creating increased participation rates with students from other provinces, Manitoba Aboriginal students and attracting higher numbers of international students. Students from the latter two markets have unique needs and the associated costs continue to rise. In the absence of fee increases for domestic students to support the operation of the University, the quality of the student experience in the classroom will be difficult to maintain.

Table 2, Selected Statistics provides information on undergraduate and graduate student enrolments by session, self-declared Aboriginal students by faculty/school as well as undergraduate student credit hours by session, degrees, diplomas and certificates conferred on our graduates, the general operating grant, the tuition fee rebate grant, tuition fee income and scholarships and bursaries paid in each of the past five years.

Exciting New Developments in the Endowment Fund

The trust and endowment funds of the University of Manitoba continue to grow, and several new changes to the asset mix of the University Investment Trust ("UIT") have positioned the endowment to support of a variety of short and long-term needs at the University. The Trust Investment Committee approved a new investment policy, and in light of this, exciting new developments are taking place within the management of the endowment fund. The asset class of real estate has been introduced, and the UIT is now investing in the Great-West Life Real Estate pooled fund. Real estate diversifies the portfolio and reduces risk, as well as provides some added protection against inflation.

The market value of the funds at March 31, 2007 was $337.8 million. This growth is due to both the generosity of donors and the earnings of the fund over the past year. Donations and gifts amounted to $25 million in 2006/2007, and the UIT's rate of return for the year was 8.8%. In no modest way do these two factors help the endowment fund grow, year in and year out. As recently as five years ago, the fund had a market value of $191.2 million, and since then the fund has grown 77%, while still supporting the beneficiaries of the UIT with payments in excess of $45 million during this time frame. It has been a very successful period for the endowment, and the Trust Investment Committee is committed to its responsibility of ensuring that the health and wealth of the endowment is always a top priority at the University, and that the legacies from gifts live on for future generations of students.

Development and Advancement Services continues to raise significant funds to support the University's strategic priorities. This on-going success is a testament to the University's role as a vital institution in the community, and this translates into generous support to the University from its various donors. Every gift becomes an important part of supporting students, faculties, research and other worthy causes within the various campuses. In the 2006/2007 year, $9.5 million in donations were received to support student scholarships, bursaries and awards. Access to education is a key priority of the University, and students will benefit directly from this fundraising. Another success story is the $4.9 million raised in the year to support faculties and schools, and a further $2.3 million raised for chairs and professorships. Both of these areas are bolstered by continued donor support, and are important priorities as well, as they ensure that the University attracts and retains the best educators and researchers so that it can continue to provide exceptional education in a variety of fields. The charts in **Figure 5 and 5.1, Donor Pledges 2006/2007** provide a summary of pledges received by type of donor and the purpose for which the gift was made.

TABLE 2

Selected Statistics

	Fall Term 2006 2006/2007	Fall Term 2005 (recast) 2005/2006	2004/2005	2003/2004	2002/2003
Enrolment					
Total Students [1,2]	26,904	27,398	27,631	26,572	24,981
• Undergraduate students	23,224	23,629	23,935	23,032	21,724
% Annual Change	-1.7	-	3.9	6.0	5.8
Full-Time	18,467	18,940	17,633	16,885	15,879
Part-Time	4,757	4,689	6,302	6,147	5,845
• Graduate students	3,236	3,324	3,260	3,112	2,852
% Annual Change	-2.6	-	4.8	9.1	5.9
Full-Time	2,463	2,349	2,335	2,240	1,996
Part-Time	773	975	925	872	856
• Post-Graduate Medical Education Students	444	445	436	428	405
Summer Enrolment	10,942	11,127	10,328	9,951	9,493
% Annual Change	-1.7	-	3.8	4.8	5.4
Full-Time Equivalent Students [1,3]	26,080	26,531	25,420	24,402	22,907
% Annual Change	-1.7	-	4.2	6.5	4.5
International Students	2,602	2,620	2,304	1,718	1,232
Self-Declared Canadian Aboriginal Students [4]	1,578	1,596	1,605	1,401	929
Agricultural & Food Sciences	10	11	8	7	-
Architecture	13	9	6	7	-
Art, School of	24	20	16	12	-
Arts	229	235	194	199 -	
Business, Asper School of	37	36	34	38	-
Dental Hygiene	4	4	-	-	
Dentistry	4	3	-	-	
Education	64	83	87	68	-
Engineering	53	42	58	59	-
Environment, Earth, and Resources	14	16	12	9	-
Extended Education	123	143	215	194	-
Graduate Studies	106	88	42	23	-
Human Ecology	19	11	12	5	-
Law	22	15	22	20 -	
Medical Rehabilitation	12	10	-	-	
Medicine	9	12	15	14	-
Music	4	4	-	-	
Nursing	106	118	162	141	-
Pharmacy	12	8	9	8	-
Physical Education & Recreation Studies	21	18	20	15	-
Post Graduate Medical Education	8	5	-	-	
Science	98	112	98	86	-
Social Work	200	202	222	197	-
University [1]	386	391	362	292	-
Others [5]	0	0	11	7	-
Undergraduate Student Credit Hours					
Fall and Winter	507,148	522,870	525,330	504,602	475,948
Summer [6]	55,248	57,751	43,775	40,702	38,637
On-load [7]	5,170	4,410	6,970	8,613	9,940
Degrees, Diplomas, Certificates Conferred					
Undergraduate	4,165	4,006	4,009	3,730	3,643
Graduate	729	696	625	555	556
General Operating Grant (000's) [8]	221,017	$207,168	$202,411	$198,248	$191,003
Grant in Lieu of Tuition Fee Rebate (000's)	8,087	$8,225	$8,005	$7,721	$7,208
Tuition Income (000's)	101,347	$96,462	$88,120	$83,517	$79,126
Scholarships & Bursaries (000's)	15,831	$12,113	$10,434	$9,430	$10,163

Note: The University of Manitoba implemented a new student information system in 2006. Reporting is now done on a term-by-term basis. Comparative data have been recast for Fall Term 2005.

Fall Term 2006 figures can be compared to Fall Term 2005 (recast) figures. Previous years reflect sessional figures and are not strictly comparable.

1. As at November 1st.
2. Includes B.Sc.(Dentistry), B.Sc.(Medicine) and Joint Master's Program students based on workload calculations.

   Fall 2006 figures do not include students in the inter-north component of the M.P.A. program.
3. Full-Time Equivalent Students = Full-time + (Part-time / 3.5). Includes all terms.
4. Aboriginal identity is a voluntary self declaration made on the Admission form. Therefore, the numbers reported would be less than the total population of Canadian Aboriginal students on campus.
5. Faculties/Schools with less than three students are included in 'Others'.
6. Beginning in 2005/2006, summer undergraduate student credit hours include summer distance education courses. Historical data are not strictly comparable.
7. Courses taught during summer terms as part of fall and winter teaching load.
8. Operating Grant excludes first claims and grant in lieu of tuition.

FIGURE 5

DONOR PLEDGES BY CONSTITUENCY 2006/2007 (TOTAL $25.0M)

March 31, 2007

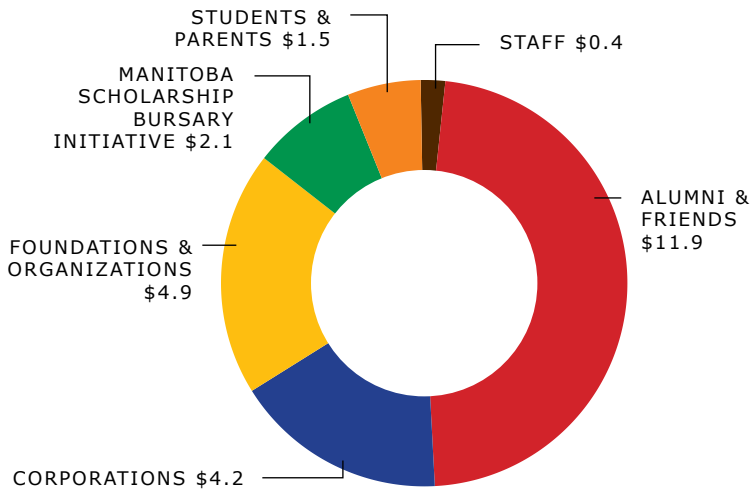
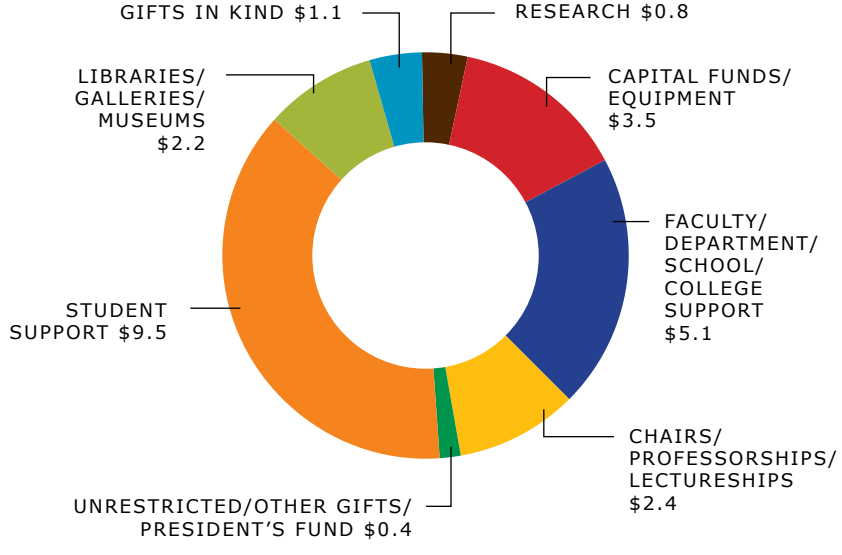


FIGURE 5.1

DONOR PLEDGES BY TYPE OF GIFT 2006/2007 (TOTAL $25.0M)

March 31, 2007



World Class Research

The University of Manitoba currently holds 47 Canada Research Chairs, and is an active participant in 13 of Canada's 16 National Networks of Centres of Excellence, including the ISIS Canada Research Network (Intelligent Sensing for Innovative Structures), which is headquartered in the Faculty of Engineering. The University is also home to, or a partner in, 36 research centres, institutes and shared facilities that foster collaborative research and scholarship in a wide variety of fields.

In 2006/2007, research at the University of Manitoba continued to grow, with new investment in a number of key areas. University researchers received $109.1 million in sponsored or assisted research support through grants or contracts from the federal and provincial governments, various foundations, business and industry, and individuals. This represents a 13.4% increase over the $96.2 million received in 2005/2006 and a five year increase of 72.9% compared to the $63.1 million received in 2001/2002.

FIGURE 6

RESEARCH FUND EXPENSES BY FACULTY OR SUPPORT UNIT 2006/2007 (TOTAL $101.3M)

March 31, 2007

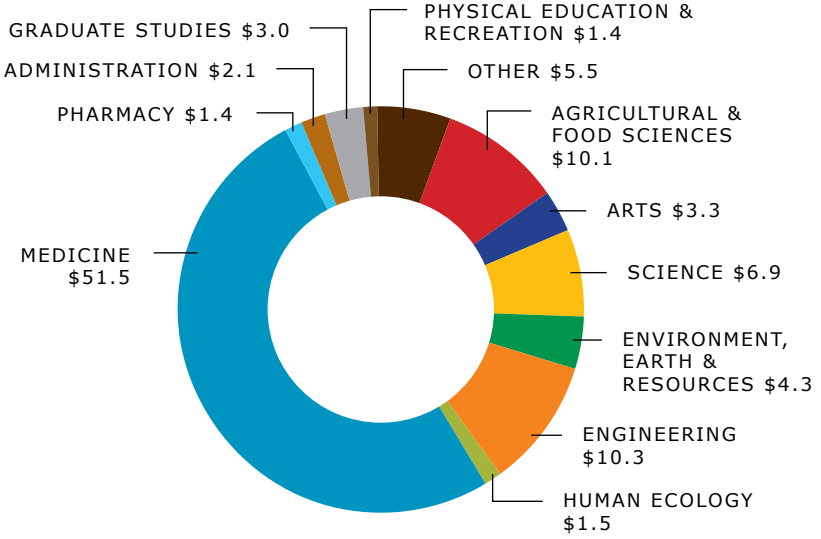


FIGURE 6, Research Fund-Expenses by Faculty or Support Unit, illustrates the level of research activity, as measured by the level of spending, in Faculties and Schools in 2006/2007. Research activity was highest in the Faculty of Medicine, at a level of $51.5 million in 2006/2007. The second-highest was the Faculty of Engineering at $10.3 million (including the ISIS Canada Research Network), followed by the Faculty of Agricultural and Food Sciences at $10.1 million, and the Faculty of Science at $6.9 million. In 2006/2007, a total of $101.3 million was spent on sponsored or assisted research activities at the University of Manitoba.

Investment in Capital, Infrastructure and Technology

In fiscal 2006/2007, the University of Manitoba invested $80.8 million in capital assets as follows:

- $41.6 million for the construction of buildings, infrastructure repairs and improvements and land improvements;
- $17.8 million for the acquisition of furniture, equipment and vehicles;
- $12.3 million for computer equipment and technological improvements such as building cabling and administrative system renewals; and
- $9.1 million for library acquisitions and works of art.

In addition, debt servicing costs of $23.8 million were paid, primarily relating to the Provincial Debt, the Arthur V. Mauro Student Residence, the Fort Garry Parkade, the Energy Performance Program and repayment of Smartpark's Construction Loan.

In 2006/2007, the sources of capital funding included the second $75 million tranche of debt from the Province of Manitoba, fulfilling its commitment to provide $150 million of long term financing to the University, $8.7 million from COPSE, $9.3 million from other Provincial departments, $4.7 million from the Federal Government, and $11.2 million from private donors.

Construction of two new major assets began in the year, the Aboriginal Students' Centre and the Apotex Centre. The Aboriginal Students' Centre will provide an important presence and much needed expansion of the aboriginal resource space and will help promote the University as the first choice of Aboriginal students in Manitoba. Funding has been provided in part by private gifts and interim financing from the Provincial Debt. Apotex Centre at the Bannatyne Campus will house the Faculty of Pharmacy and teaching and research space for the Faculty of Medicine. This project is being funded in part by the provincial contributions to the Capital Campaign, private gifts and the Provincial Debt.

Large infrastructure renewal projects that were undertaken in 2006/2007 include major renovations to the Faculty of Science's Buller Building ($4.8 million - funded by Indirect Cost of Research Grants and the Provincial Debt) and Smartpark infrastructure development. Also, the Engineering I sprinkler system upgrade ($1.4 million), Fort Garry pumping stations and sewer renewal project ($1.5 million), and the Glenlea sewage treatment plant ($0.1 million) are being funded by COPSE capital grants and the Provincial Debt.

Work was completed on numerous other capital projects, building upgrades and renovations during the year. This included the Engineering and Information Technology Complex ($4.1 million), the Bannatyne Parkade ($1.8 million) and the Faculty of Architecture's Russell Building ($0.3 million). Also, significant investments were made to improve technology cabling ($4.2 million), classroom teaching and technology upgrades ($2.4 million), and building envelope repairs ($0.7 million). In addition, $1.9 million of asbestos abatement projects were undertaken and completed in 2006/2007. These projects were funded by COPSE capital grants and the Provincial Debt.

Other significant capital building projects that were undertaken in 2006/2007 include Library Remote Storage ($0.7 million), Chemistry Undergraduate Lab Upgrade ($0.7 million - partially funded by Western Economic Diversification), Dafoe Archives & Special Collections Renovation ($0.2 million), Human Ecology Barbara Burns Lab Renovation ($0.2 million) and Faculty of Agricultural and Food Sciences James Richardson International Auditorium Renovation ($0.1 million).

The University largely completed implementation of major administrative systems renewal in 2006/2007. On April 1, 2006, Aurora Finance went live with all modules being successfully implemented. Aurora Student is being implemented in stages, starting with registration and accounts receivable on July 1, 2006 and followed by Financial Aid & Awards on August 30, 2006 and admissions on March 15, 2007. The Aurora System has provided the University community with a comprehensive integrated system, assisting both students and staff with quicker processes, more timely information to aid decision making, and the ability to access more detailed information. Capital costs incurred in the current fiscal year relating to these system implementations totalled $2.4 million.

The consolidated financial statements include Smartpark Development Corporation, the University's research and technology park. Smartpark continued to build its community of innovators in 2006/2007 and is now home to 17 organizations employing 800 people in four broad sectors; information and communications technology, engineering and advanced materials, health and biotechnology, and agricultural and nutritional sciences. Through the Municipal Rural Infrastructure Fund, a program jointly sponsored by the provincial and federal governments, $2 million was provided for roadway and services extensions supporting this growing community.

The eureka project: Smartpark's Incubator, was also launched this year. It provides facilities and a network of technical, marketing, and business expertise to help entrepreneurs and start-up technology companies innovate and accelerate to commercialization.

These new capital building and infrastructure renewal projects demonstrate the University's commitment to providing a high quality learning and research environment that meets the needs of students, faculty, staff and the community.

The charts in **Figure 7 and 7.1, Capital Fund Sources and Capital Fund Expenditures 2007/2008** depict the sources of funding for capital assets and provide a more detailed breakdown of the $80.8 million in capital asset expenditures and debt servicing costs of $23.8 million.

FIGURE 7

CAPITAL FUND SOURCES 2006/2007 (TOTAL $163.7M)

March 31, 2007

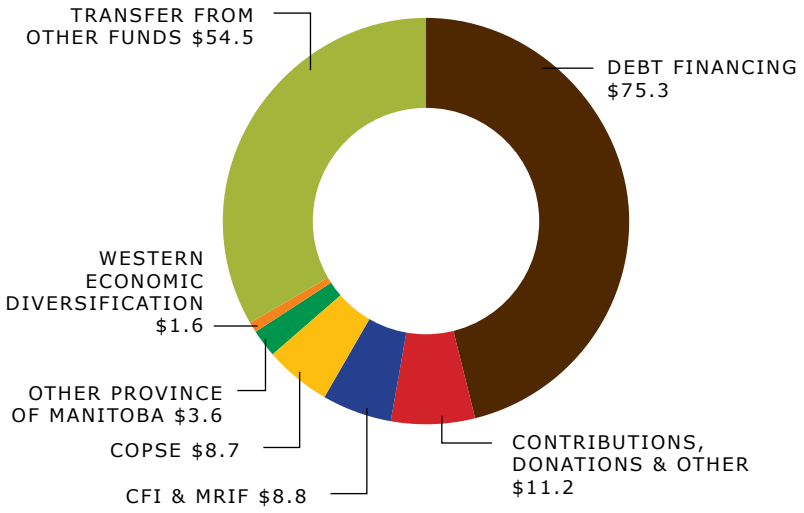
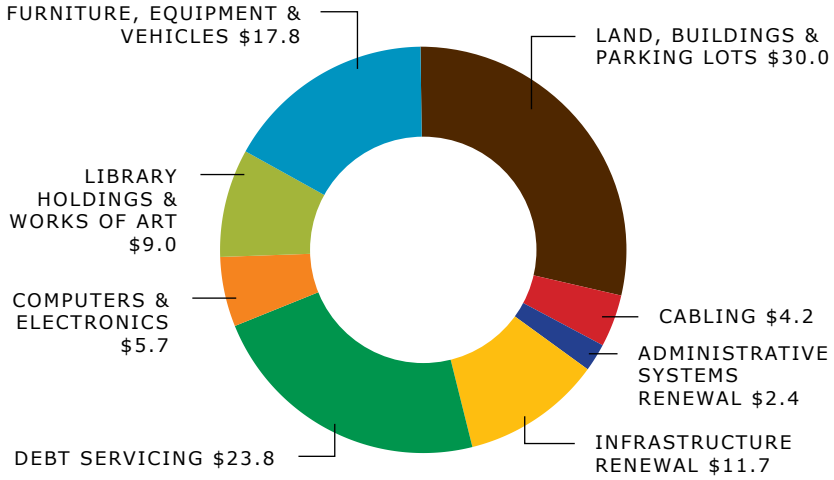


FIGURE 7.1

CAPITAL FUND EXPENDITURES 2006/2007 (TOTAL $104.6M)

March 31, 2007



An Asset to Our Community

In addition to success at providing a quality university education to our students and conducting research with global implications, the University of Manitoba reaches out to the community in many other ways, through continuing education, collaborative efforts with business and industry, and through the provision of specialized services not readily available locally. The University operates on two main campuses, Fort Garry and Bannatyne, with satellite teaching and research facilities at Glenlea Research Station, Carman and Delta Marsh, University of Manitoba Downtown, the Aboriginal Education Centre and at the William Norrie Centre on Selkirk Avenue.

In addition, Social Work, Medicine and Dentistry all offer programs onsite and through distance education delivery techniques in northern communities. Medicine provides health services through the Northern Medical Unit and Dentistry offers extensive dental services through the Centre for Community Oral Health, bringing health and dental care to remote Aboriginal communities. The University Pharmacy also operates the Medical Information Line for the Elderly which offers phone and walk-in medication consultation to all Manitobans, not just the elderly.

The University of Manitoba's success in serving its mission in education, research and community service translates into major economic, social and cultural benefits for the people of Manitoba.

Conclusion

Increased investment in the University is the right choice for Manitoba and will not only result in sustaining the capacity of the University to support learning, innovation in research and community service but also ensure that Manitobans will prosper.

The University acknowledges with gratitude the continuing support of the Province and the Council on Post-Secondary Education as well as the support of our students, staff, alumni, and community stakeholders.

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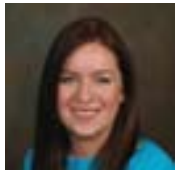
BMath, MMath



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Doug Ward
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St. John's College, Warden:
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St. Paul's College, Rector (Acting):
Daniel Lenoski
BA, MA, PhD

University College, Provost (Acting):
Richard Sigurdson
BA, MA, PhD

University 1:
Christine Blais
BSc, MSc, PhD

Awards and Honours

Each year at spring and fall convocations, the University of Manitoba honours students, faculty, alumni and members of the community for their distinguished contributions to the university and to society.

Honorary Degree Recipients

Fall 2006

Vivienne Poy
author, entrepreneur, historian, fashion designer and the first Canadian of Asian descent to be appointed to the Senate of Canada.

Clara Hughes
Olympic athlete (cycling, speed-skating), five-time Olympic medalist and the only Canadian ever to win medals at both the summer and winter Olympic games.

Cindy Klassen
Olympic athlete (speed-skating), won five medals at the 2006 Winter Olympics, the most ever won by a Canadian in a single games. Her combined six Olympic medals establishes her as the Canadian athlete holding the most Olympic medals.

Spring 2007

Bruce Campbell
owner and CEO of Landmark Group Incorporated – a leading agriculture business, former director of the Manitoba division of the Canadian Feed Industry Association, received the Manitoba Entrepreneur of the Year award for Agriculture/Food: Prairies Region Entrepreneur of the Year, named a Fellow of the Agricultural Institute of Canada.

Sharon Carstairs
current member of the Canadian Senate, former leader of the Manitoba Liberal Party, the first woman to be leader of the opposition in any Canadian legislature, national champion on the issues of domestic violence and palliative care.

Stephen Lewis
former broadcaster and Canadian diplomat who recently completed a five-year term as the United Nations special envoy for HIV/AIDS in Africa, Companion to the Order of Canada and chair of the Stephen Lewis Foundation which is dedicated to easing the pain of HIV/AIDS in Africa.

Michaëlle Jean,
Canada's 27th Governor-General, former award-winning journalist and broadcaster, tireless champion of multiculturalism and human rights, perhaps best exemplified by her work fighting family violence and advocating for women's shelters and on behalf of immigrant women.

Melvin G. Wiebe
the world's foremost authority on former British prime minister and essayist Benjamin Disraeli, professor of Victorian literature and prolific author.

Joseph H. Fafard
a Canadian sculptor with a national and international reputation whose work is featured in major collections across Canada, including the National Gallery of Canada and the Montreal Museum of Fine Arts.

Victor Davies
musician, composer and conductor whose compositions include children's musicals, movie and television scores, ballet music, rock opera and oratorio.

Hubert I. Gauthier
former president and chief executive officer of the St. Boniface General Hospital, Gauthier was credited with making the hospital a leader in the delivery of health care in Manitoba.

Emeritus Honours

Professors Emeriti

Cameron Harvey, Law
James C. Jamieson, Science
Alexander Rattray, Architecture
Henrique Rigatto, Medicine
Robert W. Menzies, Engineering
Anthony Waterman, Arts
Norman E. Cameron, Arts
Frederick A. Starke,
I.H. Asper School of Business
Henry Engbrecht, Music
James S. Gardner,
Clayton H. Riddell Faculty of Environment, Earth, and Resources

Teaching Awards

Dr. and Mrs. H.H. Saunderson Award for Excellence in Teaching

Richard Harbeck, Education
Joan E. Durrant, Human Ecology

Olive Beatrice Stanton Award for Excellence in Teaching

Periyapatna S. (Raj) Dhruvarajan, economics

Graduate Students' Association for Excellence in Graduate Teaching

Vanessa Warne, English
Daniel Mann, biosystems engineering

Other Awards

Peter D. Curry Chancellor's Award

Awarded to individuals who have made distinguished contributions to university governance and/or development.

Bernard L. Dronzek,
Agricultural and Food Sciences

Distinguished Alumni Award

Awarded by the Alumni Association to a University of Manitoba graduate of 25 years or more in recognition of distinguished achievement.

John Foerster
Medicine

Dr. John M. Bowman Memorial Winnipeg Rh Institute Foundation Award

Recognizes research accomplishments of senior faculty according to the quality of their research, the impact of the research nationally and internationally, and the distinction brought to the university by the research.

Garry L. Martin, Distinguished Professor, psychology

Dr. and Mrs. D.R. Campbell Outreach Award

Presented to university staff members who consistently spend countless hours of their own time in community service. This service typically combines professional and scholarly experience with their personal commitment to the people and community around them.

Ted McLachlan, landscape architecture

President's Award for Excellence

Presented to university support staff members who have made outstanding contributions to the University of Manitoba's mission and goals during a career at the university.

Brian Rivers, physical plant

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UNIVERSITY OF MANITOBA

The University of Manitoba
Winnipeg, Manitoba
Canada R3T 2N2

For further information contact:

Public Affairs Department
Phone: (204) 474-8346
Fax: (204) 474-7631
umanitoba.ca
public_affairs@umanitoba.ca