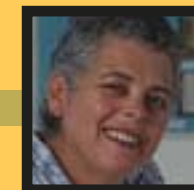
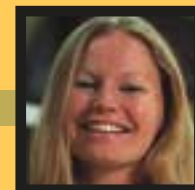


*teaching*  
*research*  
*community relations*  
*international programs*  
*learning*  
*location*

**The University of Manitoba**

*at the centre of it all*



## Cover Story Aboriginal “U” Crew and Global Focus Team

Attending university can be a daunting proposition for any student just graduating high school. But harder still can be the thought of moving from a remote Canadian community to the “big city” or leaving home to attend a university in another country.

This is where the Aboriginal “U” Crew and the Global Focus Team come in. These university students act as role models and ambassadors for those considering the University of Manitoba, and are an important element of the Student Recruitment section of the Enrolment Services Office. Their own experiences as successful students in “foreign” territory help prospective students feel that they, too, can succeed.

The **Aboriginal “U” Crew** began in spring 2001 and is comprised of seven students from across Manitoba and Northwestern Ontario. Under the direction of the Aboriginal Student Recruitment Officer, the group works at university events such as Info Days and Evening of Excellence, visits high schools and helps host campus tours and provides student services at offices across campus.

The **Global Focus Team** started in fall 2001 and is comprised of ten students from nine countries on five continents. Collectively they speak 12 different languages, from Swahili to Tagalog. In addition to working in different offices across campus, including the International Centre for Students, the English Language Centre, and International Liaison Office, the team works as greeters during U1 orientation, addresses high school counselors at an annual seminar, gives guided tours during Info Days, and staffs booths at career fairs and the Evening of Excellence.

The work of the Aboriginal “U” Crew and the Global Focus team was made possible through grants from the university’s employment equity office.

Pictured on front cover and seated from left, are:

### Aboriginal “U” Crew

**Sacha Paul** - Sacha graduated from the Faculty of Law this year. He is currently articling with the law firm Thompson Dorfman Sweatman, and was already offered a position in Ottawa as a clerk to one of the Supreme Court judges when he is finished. Sacha attended St. John’s Ravenscourt school in Winnipeg before receiving a BA(Hons) in Politics at the University of Western Ontario. He served two years with the “U” Crew.

**Ramona Neckoway** - Ramona is a single mother from Nisichiwayashik Cree Nation. She graduated from Otetiskewin High School. She is a second year Arts student in the ACCESS Program and will graduate in 2003. Upon completion of her degree, Ramona intends to pursue a degree in law. This is her first year with the “U” Crew.

### Global Focus Team

**Khang Pham** - Khang is from Vietnam and is currently a student in the IH Asper School of Business. His parents moved to Winnipeg in 1990. He loves the University of Manitoba because of the variety of learning opportunities and the friendships he says will last him a lifetime. He hopes to share his cultural values with others, while learning new ones. Khang is also an accomplished speaker and has been involved in the University 1 student council.

**Michiko Furata** - Michiko is from Japan and in her third year in the Faculty of Physical Education and Recreation Studies. Originally Michiko had intended only to study English and then return to Japan, but she liked the University of Manitoba so much she decided to stay and complete a degree. Her goals are to expand recreational activities for Japanese people, to learn more about activities for people with disabilities and to create better facilities, such as outdoor parks.

**Leon Espira** - Leon is from Kenya and is in his second year in the Faculty of Science, majoring in Genetics. He came to the University of Manitoba because of the reasonable cost and because it’s a family tradition (both his brother and sister attended the university). He feels the field of genetics has the potential to make the world a better place, and looks forward to achieving at least a Master’s degree.



“...the circumference of life  
cannot be rightly drawn

until the **centre** is set.”

Benjamin E. Mays (1895-1984), Educator



## Message from the Chair of the Board of Governors

In this, our 125<sup>th</sup> year, we can all take great pride in the key role our university plays in the development and well-being of our province and our country. Within these pages you will find many examples of the exceptional quality of the University of Manitoba’s people – faculty, staff, students and graduates – and products – the innovative research and outstanding contributions to the community.

The Board of Governors is grateful for the very generous support of the internal and external communities for *Building on Strengths: Campaign for the University of Manitoba*, and we again pay tribute to the Government of Manitoba for its key commitment of \$50 million to the campaign for infrastructure renewal. All who visit the university’s campuses and other locations will note the intensity of construction, much of it made possible through private donations and the government pledge.

As always, the Board is committed to working with the Council on Post-Secondary Education and the Government of Manitoba toward maintaining the university as one of Canada’s best universities. We offer our appreciation to Chancellor Norrie, and to President Szathmáry and her administration for their leadership, and our thanks to the faculty and staff for their dedication to excellence in teaching, research and community service.

Finally, I want to thank the Board for the privilege of serving for the past six years, the last five as Chair. I am proud of this great institution, and I offer my best wishes for its continued success over the coming years.

**Paul M. Soubry**  
Chair

## Message from the President and Vice-Chancellor

This year’s annual report chronicles another year of great achievement by faculty, staff, students and alumni, from all walks of life and in dozens of disciplines. I am very pleased that the report contains a new section which brings forth information on the university’s social and economic impact on the province.

An outstanding record of individual and institutional achievement combined with measures of the university’s worth to the community make for a compelling picture of the University of Manitoba as an institution of which all of our constituents can be proud. The stakeholders in the university – government, taxpayers, grantors and donors – can rest assured that they have invested wisely in one of Canada’s premier institutions of higher learning.

As we celebrate our 125<sup>th</sup> year of education, research and service to the community, I reflect with pride on our continuing dedication to nurturing growth in our students, innovation in our research, and collaboration with the community. I believe those who pioneered the vision of a University of Manitoba would be pleased with the university that has come into being, and whose impact on our province, nation and world remains significant.

On behalf of the university community, I thank the members of the Board of Governors for their contributions. I pay special tribute to Paul Soubry, who, as chair for the past five years, served the university with great distinction.

**Emőke J.E. Szathmáry**, Ph.D.  
President and  
Vice-Chancellor





*Jen Dowdall and*

*Tammy Mahon, Canadian*

*Interuniversity Sport*

*Women’s Volleyball*

*Champions, and Second*

*Team All-Canadians*

*and Canada West First*

*Team All-Stars.*

# student achievements

*The University of Manitoba prides itself on*

*providing a world-class education to many of*

*Canada’s best and brightest students.*

*By recognizing the potential in all who have*

*a desire to learn and by providing students*

*with an exceptional education in a supportive*

*environment, the University of Manitoba opens*

*doors to a future of possibilities.*

## International Awards

Graduate students in architecture **Alyssa Schwann**, **Katherine Davey**, **Jaspal Atwal** and **Saša Radulovic** won first prize (£10,000) in the Lochend Butterfly Urban Sustainability Competition organized by the Royal Institute of British Architects in Edinburgh, Scotland. A total of 84 entries were received from practitioners and students based in 19 countries. The winning entry was exhibited in the Royal Institute of Art in Scotland (RIAS) Gallery from April 4 to May 3, 2002.

A plethora of business and management students has brought many additional honours to the University of Manitoba with their outstanding work in competitions at other institutions. Two of these honours include:

- **Cordell Jacks**, **Andy Wu**, **Romel Dhallia** and **Brent McFerran** placed third in the Lee Kuan Yew Global Business Plan Competition at Singapore Management University, winning \$10,000 in prize money. Of the 280 teams competing for this international event, only six moved on to the final round.

- **Tyson Carrion**, **Tom Harder**, **Jonathan Dyck** and **Jon Seltzer** won the \$15,000 2001 New Venture Creation Competition at the University of Oregon.

University of Manitoba engineering students placed third out of 37 teams in the 2001 SAE Aero Design competition. The goal of the international competition is for students to construct a model airplane that can lift the most weight without crashing. Team members included: **Matthew Shewfelt**, **Jason Grzela**, **Grant Johnson**, **David Chuang**, **Mathew Joyce** and **Don Hatch**.

**Aleksandra Leligdowicz** won the Canadian Bureau for International Exchange (CBIE) Learning Grant for International Study. Leligdowicz will be starting the first semester of her third year in the Genetics Honours program at Deakin University in Australia. The grant offers a maximum \$6,000 for a full year or \$3,000 for a semester to 19 students from across Canada.

**Margaret (Beth) Tait**, a fourth-year neuropsychology student, is one of 16 students worldwide to receive a Pfizer Epilepsy Scholarship worth \$3,000 for one year of study. Tait works with the Manitoba Epilepsy Association and is Manitoba’s delegate to the Canadian Epilepsy Alliance. She was the only Canadian to win one of the 16 awards out of more than 450 students worldwide who applied.

**David Hamblin**, agricultural and food sciences, **Kevin Hamblin**, agricultural and food sciences, and **Ross Derksen**, physical education and recreation studies, beat Sweden to win gold at the World Junior Curling Championship. The fourth team member, Ross McCannel, is a student at the University of Winnipeg.

**Student Ambassadors** of the Alumni Association were recently selected as one of five regional award recipients of The Commonwealth Youth Programme Youth Service Award, for Loonie Lines, a program that raises money at the University of Manitoba to purchase food hampers for needy students.

## National Awards

**Dale Smith**, social work, received \$50,000 from the Federal Department of Justice’s “Community Mobilization Funding Program.” The program funds projects that address crime and

victimization issues in communities across Canada. Smith’s project is to develop an anti-homophobia workshop for university staff.

**Lori Mitchell**, PhD student in community health sciences, has been awarded a studentship in the Western Regional Training Centre for Health Services Research (WRTC), a joint program with the University of British Columbia. The WRTC is funded by the Canadian Health Services Research Foundation, and provides an annual studentship of \$19,030, plus \$1,200 for travel/research expenses for three years.

## U-FACT

The University of Manitoba is first in Western Canada and third in the country in the number of Rhodes Scholars.



**Jaspal Atwal** and **Saša Radulovic**, winners with fellow students **Alyssa Schwann** and **Katherine Davey** of the Lochend Butterfly Urban Sustainability Competition.



**David Chen** was awarded one of three Global Science Scholarships by Lucent Technologies Canada. Scholars are selected on the basis of both academic and extracurricular achievement. Winners receive a cash award of \$7,500 and are offered a four-month internship at Lucent's Canadian Wireless Innovation Lab in Markham, Ontario.

**Destiny Alcock**, arts, received a Native Student Award from RBC Financial Group. Every year, RBC awards five scholarships worth \$4,000 a year for up to four years to Aboriginal students across Canada based on their personal and academic achievements as well as financial need.

**Michael Dooley**, University 1, was awarded the Prince of Wales Community Service Scholarship for his commitment to community service. The honour earned him a \$3,000 scholarship and a trip to Ottawa where he met with Prime Minister Jean Chrétien and Heritage Minister Sheila Copps.

**Lori Warford**, a master's of science student in the department of human nutritional sciences, was awarded a Dieticians of Canada Graduate Award in Dietetics worth \$2,000.

**The Bisons Women's Volleyball Team** won the Canadian Interuniversity Sport Women's Volleyball Championship over the top-seeded Calgary Dinosaurs. **Kathy Preston** was named Most Outstanding Player, a First Team All-Canadian, Canada



**Lori Warford**, recipient of the Dieticians of Canada Graduate Award in Dietetics.

# staff achievements

*Faculty and staff have a proven track record*

*of excelling in their chosen disciplines and*

*fields. Year after year University of Manitoba*

*educators, researchers and support staff are*

*recognized for their outstanding achievements*

*nationally and internationally.*



**Lori Mitchell**, PhD student, recipient of a studentship in the Western Regional Training Centre for Health Services Research.



West Most Valuable Player and a First Team All-Star **Jen Dowdall** and **Tammy Mahon** were both named Second Team All-Canadians and Canada West First Team All-Stars.

Bisons football centre **Chris Bochen**, guard **Devin Rodger**, and place-kicker **Jamie Boreham** were named first-team All-Canadians, and running back **Ken Vermette** and wide receiver **Joe Orel** were named second-team All-Canadians by Canadian Interuniversity Sport. **The Bisons** made it all the way to the Vanier Cup for the first time in 30 years but were defeated by the St. Mary's Huskies.

## U-FACT STUDENTS

- 23,618 total enrolment (November 2001)  
56.6% female, 43.4% male
- 20,534 undergraduate students  
(15,376 full time, 5,158 part-time)
- 2,693 graduate students  
(1,884 full-time, 809 part-time)
- 4.1% of students are international,  
representing 99 countries

## Geography Scholar Recipient of Rh Medal

**Vaclav Smil**, geography, received the 2001 Winnipeg Rh Institute Foundation Medal for Excellence in Research. Smil is recognized as the world's leading expert in environmental issues in China, and has been highly influential in developing policy on critical public issues such as environmental sustainability.

## Six Researchers Win Rh Awards

Six investigators at the University of Manitoba won the 2001 Rh Awards. The award supports researchers in the early stages of their research careers, who display exceptional innovation, leadership and promise in their respective fields. The Rh Award was established by the Winnipeg Rh Institute, now the Winnipeg Rh Institute Foundation, in 1973.

**Joe LoVetri**, electrical and computer engineering, is a recognized authority in the field of electromagnetic compatibility.

**Peter Rasmussen**, civil engineering, is a water resources engineer recognized for his expertise in time series analysis of hydrometric and hydroclimatic records.

**Spencer Gibson**, biochemistry and medical genetics, is a leader in the study of apoptosis or programmed cell death.

**Peter Nickerson**, internal medicine and immunology, is a leader in the field of kidney transplantation.

**Mark Lawall**, classics, is an archaeologist and economic historian specializing in the northern Aegean in the sixth century B.C. through to southern Egypt in the fifth century A.D.

**Adele Perry**, history, is one of Canada's leading young historians. She researches Canadian history with an emphasis on immigration, gender issues and indigenous peoples.

## Social Work Professor Elected to the Royal Society of Canada

Ranjan Roy, social work, has been elected to the Royal Society of Canada, regarded over its 120-year history as Canada's most prestigious academic accolade. Roy has devoted much of his career to exploring social dimensions in the causes, management and treatment of sufferers of chronic pain, including demonstrating the central role of the family in all facets of illness.

## University of Manitoba Press and Historian Win for Best Book

The U of M Press and University of Manitoba historian **Jack Bumsted** won the Mary Scorer Award for best book by a Manitoba publisher in 2002. The award for *The University of Manitoba: An Illustrated History* was presented at the Manitoba Writing and Publishing Awards. The book also won the silver award from the Council for the Advancement and Support of Education (CASE) for best anniversary publication.

**Shirley Gelskey**, dentistry, recipient of the Canadian Dental Association's 2001 Oral Health Promotions Award.





*Vaclav Smil, geography,*

*recipient of the 2001*

*Winnipeg Rh Institute*

*Foundation*

*Medal for*

*Excellence in*

*Research.*

**U • FACT:**  
**STAFF**  
• 4,483 total staff members  
• 2,004 academic staff (1,469 full-time, 535 part-time)  
• 2,479 support staff (2,040 full-time, 439 part-time)  
• In addition, there are 1,519 employed in casual positions.

**Staff Earn National and International Honours**

**Emőke Szathmáry**, president and vice-chancellor, received an honorary Doctor of Laws degree from the University of Toronto. Szathmáry, who holds academic appointments in the anthropology and biochemistry and medical genetics departments at the University of Manitoba, was recognized for her contributions to research and the advancement of education.

**Arnold Naimark**, Centre for the Advancement of Medicine, received the 2001 Lieutenant Governor’s Medal for Excellence in Public Administration from the Institute of Public Administration of Canada. Naimark was president of the University of Manitoba from 1981 to 1996.

**Heather Dean**, pediatrics, received the 2001 Distinguished Service Award from the Canadian Society for Endocrinology and Metabolism. Dean was recognized for her outstanding contributions to the advancement of research training and clinical practice in endocrinology in Canada and internationally.

**Jack Armstrong**, pediatrics, received the Canadian Medical Association’s Medal of Service. The medal is awarded to a person who has made an outstanding contribution to the advancement of health care in Canada.

**Amarjit Arneja**, internal medicine, received a medal of merit from the International Society for Heart Research.

**Evelyn Shapiro**, community health sciences, earned the Canadian Association of Gerontology Distinguished Member Award and the Canadian Medical Association Medal of Honour for outstanding public service.

Staff in External Relations won a gold award from the Canadian Council for the Advancement of Education (CCAЕ) for their cover photo of the 2000-01 Annual Report. **Julie Mikuska** and **Sara Scott** of External Relations shared the best-photograph honour with **Nardella Photography** and **Bounce Communication Design**.

The University of Manitoba won a gold award for the best institutional home page in Canada from the Canadian Council for the Advancement of Education (CCAЕ). The team from Information Services and Technology includes **Jennifer St. Laurent**, **Paula Horeczy**, **Amanda Jeninga**, **Tracey Keryluk**, **Brian McLean**, **Bill Moore** and **Lonnie Smetana**.

**Shirley Gelskey**, dental diagnostic and surgical sciences, received the Canadian Dental Association’s Oral Health Promotions Award for 2001. The award recognizes her leadership role in the Faculty of Dentistry’s comprehensive intervention initiative on tobacco use.

**George Bowden**, oral biology, received the International Association for Dental Research (IADR) annual award for outstanding research in dental caries. Bowden is the first Canadian to receive the award, which recognized his contributions to oral microbiology and the microbiology of dental caries.

**David Gregory**, nursing, received the second annual Award for Academic Administrative Excellence from the Canadian Association of University Schools of Nursing. The award recognized Gregory as an administrator who has met significant challenges and developed innovative strategies to strengthen the quality of nursing academic programs and his nursing school.

**Andrew Vernooy**, architecture, received the American Concrete Institute’s Structural Engineering Award for a paper he co-authored, describing how guidelines that balance aesthetics and efficiency can be developed for bridge engineers.

**Richard Harbeck**, education, received a Distinguished Teaching Achievement Award from the National Council for Geographic Education.

**Maria Cheung**, social work, received a Professional Leadership award from the Canadian International Development Agency (CIDA) for research on a project assessing distance education needs in Chinese social work with women.

**John Adair**, social psychology, received the biennial Inter-American Psychology Award from the Inter-American Society of Psychology in Santiago, Chile, for his contributions to the advancement of psychology in the Americas.

**Joseph Pear**, psychology, received the 2002 Fred S. Keller Award for Distinguished Contributions to Education from the American Psychological Association, in honour of his work in behavioural education. He also earned an award for “Innovative Excellence in Teaching, Learning, and Technology” at the 13<sup>th</sup> International Conference on College Teaching and Learning.

**Terrence Hogan**, I.H. Asper School of Business, received the 2001 Member of the Year Award from the Canadian Psychological Association, which recognizes exceptional service or distinguished contribution to the association during the year.

**Rob Warren**, I.H. Asper School of Business, received the 2001-02 Leaders in Management Education Award in the Western Canada region from sponsors PriceWaterhouseCoopers LLP and the *National Post*.

**James Graham**, civil and geological engineering, received a Canadian Engineers’ Award for distinction in engineering education from the Canadian Council of Professional Engineers. He also received the R.F. Legget Medal, the most senior and prestigious award from the Canadian Geotechnical Society. The medal recognized his significant achievements in geotechnical engineering.

**Emery Lajtai**, civil engineering, was awarded the annual Canadian Geotechnical Society’s National Thomas Roy Award for his contributions to engineering geology in Canada.

**Joseph Pear**, psychology, recipient of the 2002 Fred S. Keller Award for Distinguished Contributions to Education.

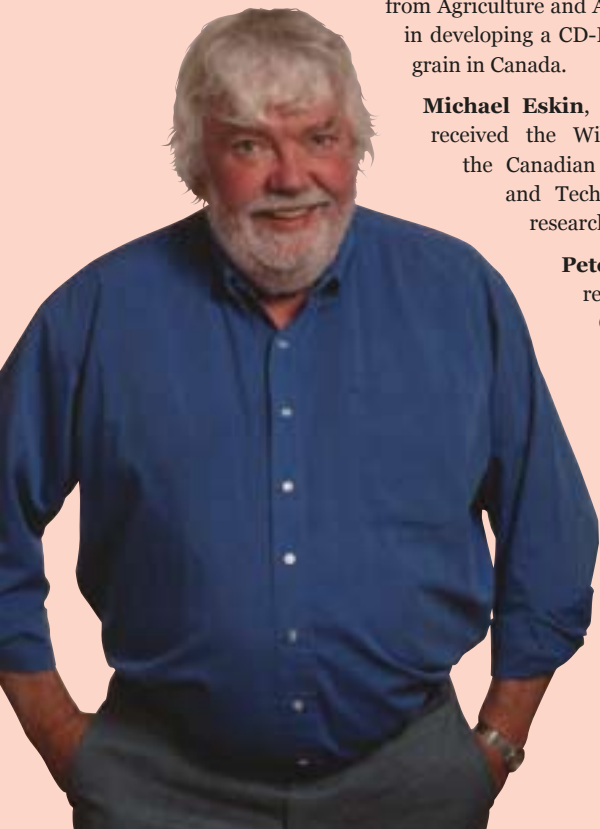






***Maria  
Cheung,  
social work,  
recipient of a  
Professional Leadership award  
from the Canadian International  
Development Agency (CIDA).***

**David Arnason,  
English and  
Icelandic, nominated  
for the Leacock  
Medal for Humour.**



**Digvir Jayas**, biosystems engineering, received the John Clark Award from the Canadian Society for Engineering in Agricultural, Food and Biological Systems in 2001. The award recognized his outstanding contribution to research and teaching, and his internationally renowned leadership in food engineering. Jayas also received the Agcellence Award from Agriculture and Agri-Food Canada for his role in developing a CD-ROM on protection of stored grain in Canada.

**Michael Eskin**, human nutritional sciences, received the William J. Eva Award from the Canadian Institute for Food Science and Technology for his outstanding research and service.

**Peter Loewen**, microbiology, received the Roche Diagnostics/Canadian Society of Microbiologists Award for lifetime achievement.

**Peter Mills**, senior laboratory technician in the department of animal science, won the Sigma Xi Award for Support Staff in 2001. The award from Sigma Xi, an honour society for scientists and engineers, recognized Mills' operation

and maintenance of the most complex equipment in the department's nutrition lab.

**Gary Mills**, information systems and technology, received honours from Canada's Advanced Internet Development Organization for helping develop Canada's .ca domain on the Internet in the early 1990s.

**Margaret Groome**, English, received the Richard Plant Award from the Association for Canadian Theatre Research, for the best essay in English published in the past year.

**David Arnason**, English and Icelandic, was nominated for the national Leacock Medal for Humour for his novel *King Terry*.

**Francis Carroll**, history, was awarded the 2002 John Wesley Dafoe Book Prize from the John Wesley Dafoe Foundation for *A Good and Wise Measure: The Struggle for the Canadian-American Border 1783-1842*. The \$15,000 prize honours the book that best contributes to the understanding of Canada and its place in the world.

**Vladimir Simosko**, Eckhardt-Gramatté library, won the 2001 Award for Best Research in the Field of Recorded Jazz from the Association of Recorded Sound Collections for his book *Artie Shaw: A Musical Biography and Discography*. Simosko also was nominated for the award in 1999.

**Brian Dobie**, Bisons football coach, was named Canadian Football League/Canadian Interuniversity Sport Coach of the Year. Dobie is the first University of Manitoba coach in 32 years to receive the award. Dobie led the Bisons through a record-breaking year and to the Vanier Cup in Toronto.

**Helen Bochonko**, education, was presented with a certificate by Premier Gary Doer for outstanding achievement in science and technology in Manitoba during 2000.

**Ray Perry**, psychology and Centre for Higher Education Research and Development, received the 2001 Education and Training Award from the Canadian Psychological Association for his outstanding work over the past 25 years.

**Bill Wsiaki**, St. Paul's College library, won the William & Mary Kotash Award for his documentary, *Headlines: 90 Years of the Ukrainian Voice Weekly, 1910-2000*. The national award, presented annually through the Ukrainian Resource and Development Centre in Edmonton, recognizes excellence in film and video promoting Ukrainian-Canadian identity.

**Charlie Thomsen**, architecture, received the President's Award from the Canadian Society of Landscape Architects for his leadership and dedication in developing the International Peace Garden on the Canada-U.S. border.

**Appointments**

**Ostap Hawaleshka**, mechanical and industrial engineering, was appointed Member of the Order of Canada in 2001. Hawaleshka played a key role in developing the university's industrial engineering program and founding the Science and Technology Centre in Ukraine.

**Petr Cerny**, geological sciences, was elected an honorary member of the Learned Society of Czech Republic, the equivalent of Canada's Royal Society, of which Cerny is a member. Cerny also received a medal from the Asociacion Geologica Argentina.

**Jane Ursel**, sociology, and **Naranjan Dhalla**, physiology, were named to the Order of Manitoba. Ursel founded and directs RESOLVE Manitoba, a research centre for solutions to violence and abuse. She has worked with community groups and local government to combat family violence. Dhalla founded and directs the world-renowned Institute of Cardiovascular Sciences. He has received 76 honours from around the world, including the Order of Canada and the Royal Society of Canada.



**U•FACT**  
Five colleges are affiliated with the university:  
• St. Andrew's (Ukrainian Orthodox),  
• St. Paul's (Roman Catholic),  
• St. John's (Anglican),  
• University College (Secular),  
• Collège universitaire de Saint-Boniface (French-language).



# teaching, learning and student support

*The University of Manitoba acts as a catalyst for  
social and economic growth in Manitoba and abroad  
through teaching and learning excellence and  
participation in leading-edge initiatives.*



**Sheryl Zelenitsky,**  
pharmacy, recognized  
at the 2001 Students’  
Teacher Recognition  
Awards.

## New Faculty of Environment to Open in 2003

After several years of planning, the University of Manitoba will create an “environment” faculty. Initially, the faculty will include the departments of geological sciences and geography, the environmental sciences program, and the Natural Resources Institute. The faculty is expected to open in September 2003 and will offer undergraduate and graduate programs in environmental sciences and environmental studies, including philosophy, art, history, recreation, architecture and other disciplines.

## New Dental Simulation Lab First in Canada

The Faculty of Dentistry recently completed a \$4-million Dental Simulation Facility that contains the only virtual-reality computer system in Canada. The virtual-reality simulator lab allows students to learn pre-clinical skills in artificial environments closely resembling real clinical situations. Students can practise dentistry techniques and receive instant feedback from the computer model.

## Phys Ed Course Unique in North America

The Faculty of Physical Education and Recreation Studies offered a new course in 2001-02 called “Drugs and Ergogenic Aids in Sport,” the only undergraduate course of its kind in North America. The course brings together experts in pharmacological, ethical, psychological, sociological, nutritional and educational aspects of sport, to address substance use and ergogenic aids in sport.

## New Aboriginal Programs First in Canada

The University of Manitoba will offer in fall 2002 a diploma program in Aboriginal Child and Family Services, and the undergraduate program in Aboriginal Governance will be expanded to admit more students. These programs are the first Aboriginal course offerings of their kind in the country. First Nations and Métis social service agencies, the university and the Manitoba government developed a new educational model to train child and family service providers in Aboriginal communities. The resulting diploma program will be offered through the university’s Aboriginal focus programs. The undergraduate program arose out of a request from the Sagkeeng First Nation in Manitoba and is the first in Canada to specialize in Aboriginal governance. Students may take a two-year diploma or a three-year or four-year Bachelor of Arts degree in Native Studies with a focus on Aboriginal governance.

## Students Travel Abroad

The university offered travel/study courses in several distant locations in summer 2001. In Pangnirtung, Baffin Island, students learned Inuktitut and studied Inuit society and culture as well as traditional land use, ecology, culture and history of Cumberland Sound. Others studied modern Icelandic language in Reykjavik, Iceland, Italian language in Rome, Polish language and culture in Poznan, Poland, Ukrainian language in Lviv, Ukraine, and Russian language, culture and civilization in Yaroslavl, Russia.

## Reception Honours Teachers Who Made a Difference

For the past 10 years, the Students’ Teacher Recognition Reception has given students from each faculty the opportunity to salute teachers from kindergarten to university who influenced them the most.

The following University of Manitoba professors were recognized at the 2001 Students’ Teacher Recognition Awards:

- **Marcella Eaton**, environmental design and landscape architecture (also recognized in 2000)
- **Gady Jacoby**, finance
- **Darren Dahl**, marketing
- **John Cranfield**, agricultural economics
- **Costas Nicolau**, economics
- **Jila Ghomeshi**, linguistics
- **Elizabeth Comack**, sociology
- **Susan Heald**, women’s studies (also recognized in 1995)
- **Wayne Serebrin**, education (early years) (also recognized in 1993, 1996, 1998 and 1999)
- **John Long**, education (administration, foundations and psychology)
- **Daryl McCartney**, civil engineering
- **Ken Ferens**, computer engineering (also recognized in 1998)
- **Connie Magalhaes**, human nutritional sciences
- **Elaine Mordoch**, nursing
- **Sheryl Zelenitsky**, pharmacy (also recognized in 1995, 1996 and 1997)
- **Elizabeth Ready**, physical education
- **David Kelly**, mathematics
- **Glen Klassen**, microbiology
- **John Page**, physics
- **Diane Hiebert-Murphy**, social work
- **Charles Horton**, music (also recognized in 1998)

## Awards Salute Excellence in Teaching

At the Spring 2001 convocation, four professors in curriculum, teaching and learning; political studies; philosophy; and human anatomy and cell science, were recognized for their outstanding efforts in teaching.

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

**James Fergusson**, political studies, who teaches international relations, earned praise for expressing a keen desire to see students succeed. Fergusson (BA/82, MA/86) joined the department in 1988.

**Beverly Zakaluk**, curriculum, teaching and learning, who specializes in reading and literacy, was described as a professor who “spends hour upon hour working with students to achieve their goals.” Zakaluk (BA/69, BEd/74, MEd/77) joined the Faculty of Education in 1977.

## The Olive Beatrice Stanton Award for Excellence in Teaching

**Carl Matheson**, philosophy, who heads the department and specializes in the philosophy of art and popular culture, earned accolades as one whom “students love listening to” and who can kindle an interest in philosophy in even the most reluctant student. Matheson joined the department in 1984.

## The Graduate Students’ Association Award for Excellence in Graduate Teaching

**Judy Anderson**, human anatomy and cell science, who teaches neuroscience, gross anatomy, and medical ethics, was named as a professor whose most valuable quality is “the way in which she is able to inspire individuals to achieve and believe in their own ability.” Anderson (BSc Med/81, PhD/85) joined the Faculty of Medicine in 1988.

## New U1 Teaching Award

Tony Secco, chemistry, won in 2002 the first U1 Teaching Award for Excellence in First-Year Instruction, presented through University 1 and University Teaching Services.

## Student Affairs in Action: 2001-2002

- Housing and Student Life conducted its largest Parents’ Orientation, with 800 attendees, and coordinated Skills for Success – a full-day workshop – for 1,500 new and continuing students.
- Student Affairs units continue to reach out to the university by organizing major events, including the Week of Excellence in the fall, Information Days in the winter, and the Aboriginal Reunion Dinner and Powwow, and Parents’ Orientation in spring. Fall and spring convocations are also major events.
- Student recruitment in British Columbia and Minnesota was highly successful, as demand for campus tours, and interest in enrolment, increased. The Student Recruitment unit will launch a marketing plan to attract large numbers of Ontario high school graduates in 2003.
- Bursary funding increased by one third in the past year, to \$900,000 from \$600,000.
- The number of students with disabilities seeking help from Disability Services rose by two thirds in the past year. The unit accommodated and served 400 students, compared to 228 in 2000.
- The Student Counselling and Career Centre conducted a regional workshop on the role of student services in “Promoting Aboriginal Student Success at Post-Secondary Institutions”. The unit received external grant funding for collaborative research projects exploring career decision-making in students, accessibility issues for students with learning disabilities, and creating an atmosphere of safety on campus for gay, lesbian, bisexual and transgendered students.

## First Elders Gathering Held

The Aboriginal Student Centre (ASC) co-hosted with the Department of Native Studies the first-ever Elders and Traditional Peoples Gathering at the University of Manitoba. Twenty-eight elders and traditional teachers from Canada, the United States and Paraguay took part. The event focused on Aboriginal spirituality, knowledge and culture. The ASC now has a sweat lodge on campus for student and staff use.

## U • FACT

Enrolment grew  
by an average of  
7% in 2001-02,  
the fourth year in  
a row to record  
an increase.





**Connie Magalhaes, human nutritional**

**sciences, recognized at the 2001 Students’**

**Teacher Recognition Awards.**



**U • FACT**  
The University of Manitoba offers 79 degrees, diplomas and certificates conferred by Senate, 51 of which are at the undergraduate level.

**First Engineer-in-Residence in North America**

In 2001, the Faculty of Engineering named **Mal Symonds**, P. Eng., the first engineer-in-residence at a North American university, a professional who helps students apply their classroom knowledge to the workplace. The faculty plans to have engineers-in-residence in all six engineering programs.

**New Adventure Program Offered to Organizations**

Recreation Services, a unit of the Faculty of Physical Education and Recreation Studies, introduced the program “Experiential Based Organizational Development (EBOD)” to help local organizations meet their staff development needs by participating in adventurous experiences. Staff work with clients to develop specific experiences incorporating progressive risk, emotional and physical safety, debriefing, assessment and follow-up.

**“Dance and Religion” Course First in Canada**

A new course integrating religion and dance is the first in Canada to look at dance as religious study. The course offered by the department of religion examines ritual movement and dance in worship settings, the influence of Judeo-Christian themes on the North American modern dance scene, and the relationship of movement to non-denominational spirituality in contemporary choreography. Students in the past year heard from Aboriginal, South Asian and African guest speakers.

**MCHP Receives Canadian Award**

The Manitoba Centre for Health Policy (MCHP) received the Health Services Advancement Award from the Canadian Health Services Research Foundation in 2001.

**Asper Centre Recognized for Excellence in Entrepreneurship Education**

The Asper Centre for Entrepreneurship in 2001 was nominated for best educational practices from the Association of Small Business and Entrepreneurship in the U.S. The centre was also the only Canadian institution invited to join the U.S.-based National Consortium of Entrepreneurship Centres, a group of elite schools including MIT, Stanford and Cornell. The centre’s summer program for non-traditional students captured two global awards from the National Foundation for Teaching Entrepreneurship.

**University 1 Produces Award-Winning Newsletter**

University 1’s newsletter *One* received the National Academic Advising Association’s (NACADA) Outstanding Advisee Publication award in fall 2001, winning over a large number of Canadian and American competitors. The newsletter, published three times during the academic year, contains study tips; information on university resources; rules and regulations; notices of important deadlines; student council news; and other articles aimed at helping first-year students make a smooth transition from high school to university.

**Asian Studies Launches E-Journal**

The Asian Studies Centre has launched an e-journal, *The University of Manitoba Journal of Translation*, to introduce Chinese writers and their works to English readers, and Canadian writers and their works to Chinese readers. The journal will appear semi-annually. The first issue appeared in February 2002.

**Math Newsletter Woos High School Students**

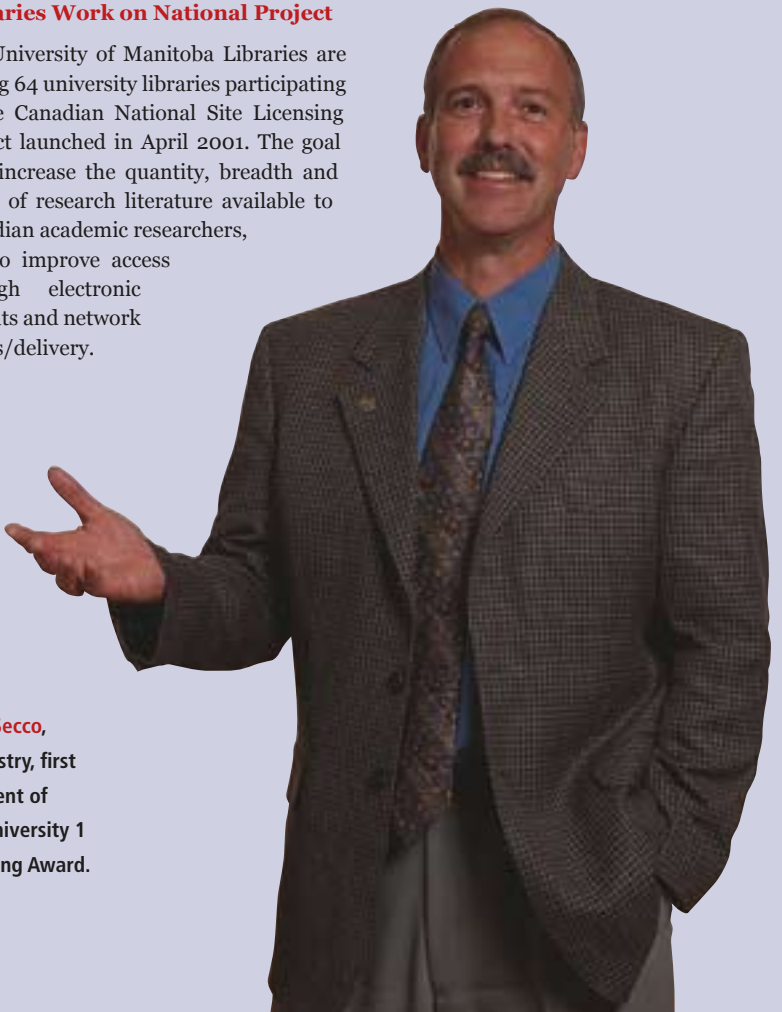
The Department of Mathematics publishes *Math Links*, a newsletter for senior high school students interested in math. The quarterly contains articles about interesting aspects of math, math puzzles and contests, information about math careers and university math programs, and math-related websites. It is distributed to schools in Manitoba, eastern Saskatchewan, and northwestern Ontario.

**Music School Welcomes Trumpeter as Artist-in-Residence**

The School of Music is hosting **Ram Oren**, associate principal trumpet of the Israel Philharmonic, as artist-in-residence this year. Oren will give lessons and master classes in trumpet, and teach orchestral repertoire and techniques classes.

**Libraries Work on National Project**

The University of Manitoba Libraries are among 64 university libraries participating in the Canadian National Site Licensing Project launched in April 2001. The goal is to increase the quantity, breadth and depth of research literature available to Canadian academic researchers, and to improve access through electronic formats and network access/delivery.



**Tony Secco,**  
**chemistry, first**  
**recipient of**  
**the University 1**  
**Teaching Award.**





# research

*Research at the University of Manitoba has resulted*

*in the elimination of Rh disease of the newborn, the*

*development of canola, smart bridges, advances in*

*wireless communication and countless other*

*insights and discoveries.*

**Ekrum Hossain**,  
electrical and  
computer engineering,  
researching next-  
generation wireless  
communication  
networks.

## Seven New Canada Research Chairs

Seven researchers at the University of Manitoba were awarded prestigious Canada Research Chairs during 2001-02. This \$900 million federal government program was designed to attract and retain outstanding researchers in Canada. The university now has a total of 18 chairs.

**David Barber**, geography, chair in Arctic system science

**Fikret Berkes**, Natural Resources Institute, chair in community-based resource management

**Mahesh Chaturvedi**, mechanical and industrial engineering, chair in aerospace materials

**Phillip Gardiner**, physical education and recreation studies, chair in physical activity and health studies

**Robert Hoppa**, anthropology, chair in skeletal biology

**Digvir Jayas**, biosystems engineering, chair in stored-grain ecosystems

**Lotfollah Shafai**, electrical and computer engineering, chair in applied electromagnetics

## New Training Programs to Attract the Best, Brightest

University of Manitoba researchers have received three of 51 Training Program Grants awarded nationally by the Canadian Institutes of Health Research (CIHR). This new funding initiative supports groups of mentors, both accomplished in the field of health research and working collaboratively, to offer research training programs. The six-year training programs are worth \$1.8 million each.

- Canada Research Chair holder **Kent HayGlass**, immunology, will lead a program researching the causes and management of human allergic disease. Researchers from the departments of community health sciences, immunology, internal medicine, medical microbiology, pediatrics and child health, and physiology are also involved.

- **Sabine Mai**, biochemistry and medical genetics/physiology/Manitoba Institute of Cell Biology, a joint institute between the university and CancerCare Manitoba, will lead a program that focuses on integrated training in advanced molecular imaging for use in many different fields including cancer, genetics, and neurodegenerative disease.

- Canada Research Chair holder **Francis Plummer**, medical microbiology, will head a multi-disciplinary training program that will introduce students and other trainees to the entire range of research approaches to the problem of infectious diseases. The program is also supported by the Province of Manitoba, Health Canada, and the Winnipeg Regional Health Authority.

## Functional Foods and Nutraceutical Research Centre Set to Rise

The University of Manitoba is set to become home to a new \$25 million functional foods and nutraceutical research and development centre. The centre will tap into a growing industry which is expected to generate \$500 billion in sales by 2010. Nutraceuticals are products such as pills or powders made from foods and have medicinal qualities. Functional foods have health-enhancing properties in addition to normal nutritional benefits. The centre will explore everything from the way plants are grown, to nutritional benefits and finally, medical benefits.

This facility is a collaborative venture involving the faculties of Agricultural and Food Sciences, Human Ecology, Medicine and Pharmacy. The provincial and federal governments have each contributed \$6 million to the centre which will be located in Smartpark. CIBC has also contributed \$1 zmillion.

## ISIS Canada’s Innovative Performance Earns Further Funding

Intelligent Sensing for Innovative Structures (ISIS) Canada has been renewed as a Network Centres of Excellence for a second, seven-year funding term. A total of \$12.8 million will be awarded over the next four years. Headquartered at the university, ISIS is a collaborative effort between Canadian universities specializing in civil, mechanical, materials, aerospace, and electrical engineering. Last year, 276 researchers and 44 industries were involved in 50 ISIS research projects and 40 demonstration projects.

## Aboriginal Projects Build Positive Partnerships

**John O’Neil**, community health sciences and director of the Manitoba First Nations Centre for Aboriginal Health Research, received two grants worth \$3.7 million over the next five years from the Canadian Institutes of Health Research (CIHR) and other funding partners to create collaborative research environments within Aboriginal communities. The first grant is worth \$2.5 million to establish a Centre for Aboriginal Health Research training program. The second grant is valued at \$1.2 million and will be used to improve health survey activity in First Nations, Métis and Inuit communities.

## University Continues to Build its Internationally Recognized HIV/AIDS Research Capacity

**Stephen Moses**, medical microbiology, was awarded a \$7.8 million contract from the Canadian International Development Agency to support the third phase of the Strengthening Sexually Transmitted Diseases (STD) HIV Control in Kenya. For the past 20 years, the university and the University of Nairobi have successfully worked on the first two phases of the project and developed HIV/AIDS prevention program strategies. The goal is to work on reducing the incidence of STD/HIV and decrease its impact by focusing on HIV/AIDS prevention and control, strengthen resources, and reinforce Kenya’s capacity to manage and control its HIV/AIDS epidemic.

The Bill & Melinda Gates Foundation also donated \$1 million US to the project, which is under the directorship of **Aine Costigan**, medical microbiology, and **Elizabeth Ngugi**, community health sciences. Bill Gates, Sr. and former US president Jimmy Carter announced the funding during a visit to Nairobi.

**Francis Plummer**, medical microbiology, received one of two national HIV/AIDS group grants. The \$1.8 million, five-year grant from CIHR focuses on the biology of sexually transmitted infections. The research team includes **Stephen Moses**, **Robert Brunham**, **Keith Fowke**, **Grant McClarty**, **Joanne Embree**, **Neil Simonsen**, and **Allan Ronald**, all of medical microbiology.

## Limb Girdle Muscular Dystrophy Gene Identified

Led by **Klaus Wrogemann**, biochemistry and medical genetics, University of Manitoba researchers working with colleagues at the McGill University Health Centre Research Unit have discovered the gene responsible for limb girdle muscular dystrophy type 2H. This type of dystrophy, which is characterized by the loss of muscle strength in the arms and legs, so far has only been seen in Hutterite families. Further research could provide important insight into the genetic causes leading to muscular dystrophies in general.

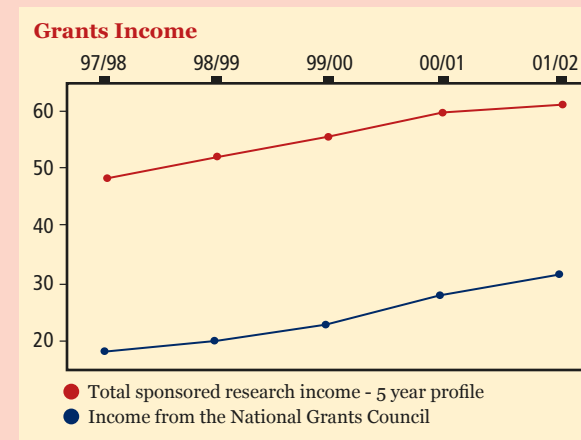
## Supercomputer Debuts on Campus

The University of Manitoba has acquired a new high-performance research computer, the Sun Fire 6800. The powerful number-cruncher is the first of its kind to be delivered in Canada. Named Polaris, the system is equipped with 12 Ultra Sparc CPUs, 12 gigabytes of RAM and 200 gigabytes of disk space. Project partners include Sun Microsystems of Canada, the Province of Manitoba, and Western Economic Diversification Canada.

## New State-of-the-Art Research Space Developed at the University

Over the past year, four new facilities were opened at the university. Funding for these projects has come from the Canada Foundation for Innovation (CFI), a national program to fund cutting-edge research and innovative researchers. These funds are matched by the Province of Manitoba’s program, the Manitoba Innovations Fund (MIF).

The Centre for Genetic Models of Human Disease has the capability to open new doors for medical scientists researching cancer, heart disease, diabetes, asthma, transplant rejection, and spinal cord injuries. Many human diseases remain untreatable or treatment is slow in developing because researchers are unable to study them in a mammalian system. Under the direction of **Robert Shiu**, physiology, this unique centre can breed transgenic and gene “knockout” mice, the most important model systems for studying the development of human disease and testing novel treatments, including gene therapy.



## U • FACT

The University received \$83.7 million in research and special project funds in 2001-02. Federal government sources provided \$42 million, Manitoba government sources provided \$14.4 million, and a wide range of business, industry, foundations, individuals and other governments provided \$27.3 million.





*Kent HayGlass, immunology,  
and Canada Research Chair*

*holder, leading a  
program researching  
the causes and  
management  
of human  
allergic disease.*



The Viral Immunology Laboratory is now the only lab in Manitoba, except for the National Microbiology Laboratory, that is fully certified as a Level 3 facility. Under the direction of **Keith Fowke**, medical microbiology, this lab can deal with non-aerosol organisms. Fowke and his team are researching how to prevent new HIV infections by developing a vaccine, and for those already infected, how to make HIV a chronic, non-fatal infection.

The Manitoba Centre for Health Policy (MCHP) celebrated its 10<sup>th</sup> anniversary by officially opening its new space at the Brodie Centre. The construction of this \$2.7 million facility, which is under the direction of Canada Research Chair holder **Noralou Roos**, community health sciences, will enable MCHP to put an even finer focus on the health of all Manitobans, and maintain its position as a national leader in health policy research.

A rapid prototyping system installed at the university is the first facility of its kind in western Canada. Principal researcher **Gary Wang**, mechanical and industrial engineering, and his team including **Paul Krueger**, are working on how to design

products more quickly, better and cheaper by integrating and developing new techniques and methodologies. The system employs the latest technology by using 3-D images to create high-endurance resin molds capable of producing components used in sporting goods, medical devices, and toys.

**New Faculty Earn Important Infrastructure Funding**

The university was also awarded \$2.3 million in funding from CFI's New Opportunities program that helps new researchers establish innovative research facilities. Twelve university scientists from five faculties can now work on developing their new labs and take their research to new levels.

**Innovation Fund Grants**

This past year, the University of Manitoba secured \$7.2 million in funding from CFI through its Innovation Fund to establish and acquire research facilities and equipment.

- \$1,197,694 to acquire equipment which will be used to understand structures and composition of materials at a very small scale; project leader: Canada Research Chair holder **Mahesh Chaturvedi**, mechanical and industrial engineering.
- \$1,207,868 to establish a centre to conduct research on identification of biological markers for early detection of breast cancer; project leader: **James Davie**, cell biology/biochemistry and medical genetics, and director of the Manitoba Institute of Cell Biology, a joint institute of CancerCare Manitoba and the university.
- \$376,546 to purchase equipment capable of assessing compositional variation in minerals at a scale equal to the one millionth part of a metre; project leader: **Norman Halden**, geological sciences.

- \$836,168 for the purchase of magnetic resonance instrumentation to reveal atomic-level structure in biological systems and in inorganic materials such as glasses for nuclear waste disposal; project leader: **Scott Kroeker**, chemistry.
- \$3,540,825 to establish a unique national centre for sustainable livestock production systems; project leader: **Karin Wittenberg**, animal science.

**Notable Research Funding**

**Charles Bernstein**, internal medicine, and a team of co-investigators received a five-year, \$1.2 million grant from the Canadian Institutes of Health Research (CIHR), to study a recently diagnosed group of people with inflammatory bowel disease (IBD). Bernstein plans to map genes related to IBD, conduct psychological profiles, and study the disease's progression to determine what variables can be used to predict disease outcomes.

**David Collins**, pharmacy, and co-investigators **Anita Kozyrskyj**, pharmacy/community health sciences, and **Brent Kvern**, continuing medical education, received a \$210,000 grant from Pharmacia Canada Inc. to evaluate how new drugs gain access into a fiscally constrained marketplace.

**Dimos Polyzois**, civil engineering, was awarded a \$236,075, twelve-month contract from the Town of Churchill to investigate alternative housing for northern communities.

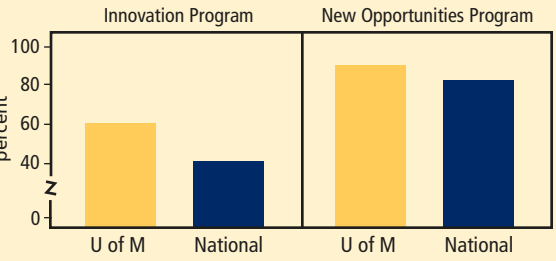
**John Wilkins**, internal medicine/immunology, received one of two national awards under CIHR's collaborative genomics special projects. The three-year, \$2 million grant will support the further development of a biomedical proteomics program. Co-investigators include **Kevin Coombs**, medical microbiology, **Werner Ens**, physics, **Peter Nickerson**, internal medicine/immunology, and **Ronald Beavis**, biochemistry and medical genetics. The group also received a one-year, \$345,965 equipment grant.

**Rae Bridgman**, city planning, received a three-year, \$99,165 grant from the Social Sciences and Humanities Research Council of Canada (SSHRC) to study child-friendly cities and participatory planning and design in Canada.

**Rae Bridgman**,  
city planning,  
researching  
child-friendly cities.



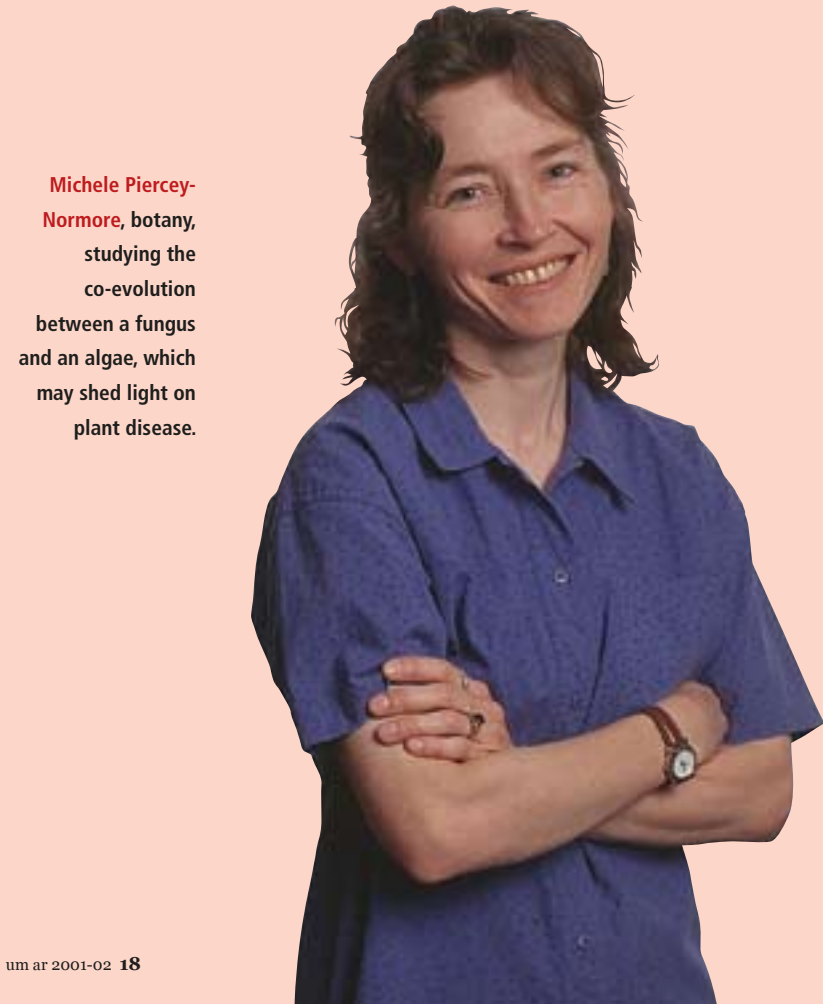
**Success rates of applications funded under the programs of the CFI (cumulative to March 31, 2001)**







*Gary Wang and Paul Krueger, mechanical and industrial engineering, using 3-D images to create resin molds capable of producing components used in sporting goods, medical devices and toys.*



**Michele Piercey-Normore**, botany, studying the co-evolution between a fungus and an algae, which may shed light on plant disease.

**Dilantha Fernando**, plant science, received a two-year, \$348,000 contract from the Canada/Manitoba Agri-food Research and Development Initiative and Western Grains Research Foundation to evaluate screening methods and new management strategies for fusarium head blight in wheat.

**Ruth Berry**, family studies, received a one-year, \$123,898 grant from the Ontario Problem Gambling Research Centre to conduct research into women's experiences of gambling and problem gambling.

**Charlotte Evans**, education, received a three-year, \$60,015 grant from SSHRC to support her study of determining the efficacy of a literacy learning curriculum for deaf students.

**Ekram Hossain**, electrical and computer engineering, received a four-year, \$84,000 Natural Sciences and Engineering Research Council of Canada (NSERC) grant to establish a fundamental research base in high-speed communication technology for next-generation wireless communication networks.

**Michele Piercey-Normore**, botany, received a four-year, \$80,000 grant from NSERC to study the classification and coevolution between a fungus and an alga, the two organisms that make up a lichen. Insight into this beneficial relationship may shed light on evolution of the harmful relationships between plants and their disease organisms.

**Research Partnerships**

**Peter McVetty**, plant science, and **CanAmera Foods**, won a 2001 University-Industry Synergy R&D Partnership Award for their work into the development and commercialization of high erucic acid rapeseed cultivars. Cultivars such as these have unique properties that produce biodegradable oils for use as an industrial strength lubricant or a cosmetics ingredient. The award is sponsored by NSERC and the Conference Board of Canada.

The university's **School of Medical Rehabilitation** partnered with **Riverview Health Centre** and **GBR Architects Ltd.** to design and create a full-size mock-up of how space in a modern rehabilitation facility could be configured. The functionality of the test facility, which incorporated Velcro walls to make repositioning of amenities easier, was evaluated by key stakeholders including health care workers, patients and caregivers, and community agencies.

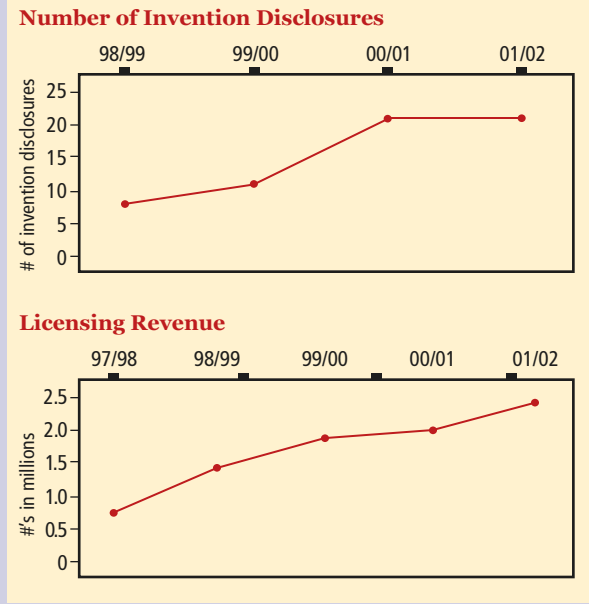
**Greg Naterer** and **Neil Popplewell**, mechanical and industrial engineering, received a four-year, collaborative research and development grant totalling \$137,000 from NSERC in support of their research into the role of external surface configuration in droplet dynamics and heat transfer for aircraft engine intake flow. Westland Technologies Canada is also contributing \$234,000 for the project.

**Annemieke Farenhorst** and **David Lobb**, soil science, received a four-year, \$446,447 strategic project program grant from NSERC to support their research on tillage erosion and its impact on soil characteristics and pesticide fate processes. Co-investigators come from the North Central Soil Conservation

Research Laboratory, U.S. department of Agriculture, and the Southern Crop Protection and Food Research Centre, Agriculture & Agri-Food Canada.

**Technology Commercialization**

During 2001-02, an innovative and comprehensive suite of programs and services for technology commercialization and intellectual property assessment was developed. This effort resulted in national recognition and spurred new activity on the commercialization front.







*Annemieke Farenhorst and David Lobb, soil science, studying tillage erosion and its impact on soil.*

**Patenting University-Derived Inventions**

The university received 21 invention disclosures for review by its newly created Commercialization Assessment Group. Currently, the university has more than 70 patents for technology developed at the university and holds over 53 licenses with companies to commercialize this technology. The patents and licensing revenue for 2001-02 is \$2.4 million.

In 2001-02, the university filed 21 U.S. patent applications for a wide variety of inventions. The university was also awarded several patents. These include:

**Magdy Younes**, internal medicine: a European patent for the design and function of a piston-based ventilator that ventilates patients’ lungs. The ventilator is designed to alter pressure according to specified functions resulting in greater comfort. In all, Younes holds over 25 patents relating to this technology.

**Kenneth Standing**, physics: a US patent for a method of cooling, or slowing, a group of ions so that their flight time may be more precisely measured as they travel through a time-of-flight mass spectrometer. Once the flight times have been determined for the molecules they are working with, scientists can determine how heavy they are and how they are put together.

**Lorne Brandes**, Manitoba Institute of Cell Biology, a joint institute between the university and CancerCare Manitoba: a Japanese patent for an improved method of treating hormone-unresponsive metastatic prostate cancer using chemotherapy.

**VentureBox Takes Care of Business**

The VentureBox program was designed to successfully create and grow high-tech and biotech start-up companies at the university. Under the development program, a company will be incorporated for each eligible technology after an invention disclosure. Companies created under VentureBox stand to benefit from the program’s promotion of the opportunity and from its business development assistance.

**Springboard Fund Leaps into Action**

Crocus Investment Fund, in partnership with the university, created a new fund dedicated exclusively to investment in the university’s start-up opportunities. It aims to close the traditional “investment gap” between venture capital investment and interest in the early stage ventures that typically derive from university research. Capitalization of the Springboard Fund, will be driven by the number of opportunities funded by it. Initially, it could support upwards of \$4 million in total investments with average individual investments expected to be around \$100,000 to \$150,000, but possibly as high as \$500,000.

**A Top Three National Finish Brings in over \$1 Million**

As the lead institution, the University of Manitoba, in collaboration with Brandon University, the University of Winnipeg, the Health Sciences Centre and CancerCare Manitoba received \$1.1 million for intellectual property management and commercialization programs over the next three years. The Intellectual Property Management (IPM) Award is sponsored by the Natural Sciences and Engineering Research Council (NSERC), the Canadian Institutes of Health Research (CIHR), and the Social Sciences and Humanities Research Council (SSHRC). It will be used to raise the profile of IP and technology commercialization issues within the partner institutions and promote professional development of staff involved in IP management.

**Smartpark Builds Momentum**

Smartpark Development Corporation has completed plans to construct a multi-tenant facility which offers prospective tenants the opportunity to connect with students, faculty and staff, and access to world-class research facilities in fields such as information technology and wireless communication, advanced manufacturing and materials, functional foods and nutraceuticals and proteomics. Construction is scheduled to start in the summer of 2002.







*Shelley Sweeney, archives and*

*special collections, with The*

*Winnipeg Tribune*

*Archives, made*

*available on-*

*line, including*

*photographs*

*and negatives.*



# external relations

*The University of Manitoba's influence is evident not*

*only through its outstanding education programs,*

*but also through research,*

*community service and*

*the graduation of well-*

*educated citizens. Beyond*

*the province's borders, the*

*University of Manitoba's*

*influence can be felt throughout Canada*

*and the rest of the world.*



## University Celebrates 125<sup>th</sup> Anniversary

The University of Manitoba celebrated its 125<sup>th</sup> anniversary on February 28, 2002, with a ceremonial cake cutting and music. Other events included the launch and sale of a new commemorative stamp and the resurrection of the musical farce, *You Can't Beat Fun!* by the School of Music for a three-night run at the Walker Theatre. The festivities continue throughout the year with an archival display at the Manitoba Museum, an exhibition at the Winnipeg Art Gallery and a gala evening with the Winnipeg Symphony Orchestra in November.

### Building on Strengths

The university launched *Building on Strengths: Campaign for the University of Manitoba* on November 22, 2001 with \$131,847,203 of the \$200-million goal raised for infrastructure renewal and endowment funds. The kickoff ended the quiet phase of the campaign, which began in 1999; the campaign will continue through 2003. The campaign is chaired by **David Friesen** (BA/69), president and CEO of Friesens Corporation.

The key campaign goals include new and renewed facilities, including the Engineering and Information Technology Complex and the Centre for Music, Art and Design, increased funding for teaching and research, and greater numbers of scholarships, bursaries and fellowships.

Through the campaign, students, alumni, faculty and staff, as well as the private sector and government have shown their support for the university. As of March 31, 2002, the university raised \$148.6 million toward the goal, including a \$50-million commitment from the Province of Manitoba.

## Getting the Word Out

Public Affairs expanded its marketing efforts this year to raise the profile and public awareness of the university in Manitoba. A billboard campaign in spring and fall 2001 reached over 150,000 Winnipeggers daily. With the combined participation of faculties and units, the university was able to make a huge impact across the city with 70 billboards.

The university continues to garner significant attention in the media with 1003 (930 in 2000) newspaper articles concerning events, research or programs at the university; front page stories noting the University of Manitoba at 65 (61 in 2000) and photographs relating the university at 127 (121 in 2000).

A television microseries highlighting teaching, research and community service excellence at the university ran on local stations in fall 2001.

The university's shuttle bus has been repainted to give it a distinctive university look with the logo on one side and the 'At the Centre of it All' campaign look on the other.

### Alumni Association Celebrates 80 years

The past year marked the 80<sup>th</sup> anniversary of the Alumni Association of the University of Manitoba, a registered not-for-profit, volunteer-governed association. To commemorate this occasion, the association created an 80<sup>th</sup> anniversary logo, which appears on a large banner that was signed by volunteers and friends of the university at alumni events that took place throughout the year, including Homecoming.

### Libraries Share History and Health Information

On October 9, 2001, a new web page for **The Winnipeg Tribune Archives** was launched. The *Tribune*, one of western

Canada's first newspapers, was in operation from 1890 to 1980. Soon after it closed, the newspaper's archives were turned over for retention at the University of Manitoba Archives and Special Collections. Rich in local, national and international history, the files date primarily from the 1930s to 1980, and are the actual morgue file of photographs and clippings that reporters used to research background information for their stories. The *Tribune* archive is one of many unique collections in the Libraries' Archives and Special Collections.

Patients and their families now have a new resource for finding quality health information with the new **Consumer and Patient Health Information Service** at the Neil John Maclean Health Sciences Library. The collection of materials and information service is provided for patients, their families and the general public seeking more information about specific conditions, treatments or health lifestyles. In addition to printed materials, the new service includes access to electronic resources, such as the Health Reference Center database, and

**David Friesen**, chair of *Building on Strengths: Campaign for the University of Manitoba*.





a specially developed consumer health web site with links to quality health information sites on the Internet.

**ISIS Helps Golden Boy Get Back Into Shape**

Intelligent Sensing for Innovative Structures (ISIS), the federal Network of Centres of Excellence focusing on innovative civil structures, is using its expertise to return the Golden Boy to its 83-year-old perch atop the Manitoba Legislative Building and keep him standing for years to come.

ISIS, headquartered in the Faculty of Engineering, is at the forefront of structural health monitoring technologies involving fibre optic sensors that collect data on how a structure is handling stresses, such as the high altitude winds and inhospitable temperatures faced by the Golden Boy.

Working under the guidance of **Aftab Mufti**, civil and geological engineering, master's student **Bogdan Bogdanovic** is examining the steel rod supporting the Golden Boy and the statue's reaction to stress caused by wind and gravity loads. Bogdanovic plans to propose repair techniques using carbon fibre reinforced polymers.

**New Services Added to Elizabeth Hill Counselling Centre**

The Men's Resource Centre at the Elizabeth Hill Counselling Centre was opened this year in response to the growing demand by men for supportive services. The Men's Resource Centre provides services in counselling, community outreach and peer support to assist men in forming respectful relationships with their families and communities.

The Elizabeth Hill Counselling Centre is a university-operated, community-based service located in downtown Winnipeg that provides free counselling services to individuals and families.

**Campus Manitoba in British Columbia**

By combining the distance education services of Campus Manitoba and the Canadian Forces University Program, the University of Manitoba is now offering courses at Canadian Forces Base Comox on Vancouver Island.

With no university nearby, base officials were seeking to provide degree studies in a classroom setting to their military personnel and families. The Continuing Education Division saw similarities with the needs of many of Manitoba's rural and remote communities that are served by Campus Manitoba (CMB), in which the University of Manitoba is a partner. The project has the potential to be applied in other locations across Canada.

**Keeping in Touch with Hong Kong Alumni**

The University of Manitoba is getting to know its 2000-plus Hong Kong-based alumni better

with new projects such as *Focus on Hong Kong*, an annual newsletter to graduates. Once a year, Hong Kong graduates receive the newsletter.

In April 2001, President and Vice-Chancellor **Emőke Szathmáry** attended a reception in Hong Kong to meet with graduates. The university is planning to hold similar receptions regularly to build greater connections with graduates. This year, Student Affairs sent representatives for the second time to the Hong Kong education fair, which brings together universities and recruiters from across Canada.

**Martha Stewart Gets the IDEA**

**Martha Stewart**, the internationally renowned television host, author and chief executive officer of Martha Stewart Living Omnimedia, Inc., received the 2002 International Distinguished Entrepreneur Award (IDEA) from the University of Manitoba.

Stewart has previously been named one of the 50 most powerful women by Fortune Magazine, has received an Edison Achievement award from the American Marketing Association and was inducted into the National Sales and Marketing Hall of Fame in the US. She was named publishing executive of the year by *Adweek*.

Established in 1983 and presented on behalf of the Associates of the I.H. Asper School of Business, the IDEA honours a business executive who has achieved international stature and outstanding entrepreneurial success and who has made an exemplary contribution to the economic life of Canada and the world at large.

**Staff Honoured with University Outreach Awards**

Each year the university honours both academic and support staff who have been notably active, particularly during the previous year, in outreach activities. This year, 21 individuals were honoured for their many valuable contributions to our university community and the wider community at large:

**Gisele Bourgeois-Law**, medicine; **Douglas Brothwell**, dentistry; **Lawrence Deane**, Winnipeg Education Centre; **Jonathan Geiger**, medicine; **Shiva Halli**, sociology; **Dean Kriellars**, medicine; **Gordon Goldsborough**, science; **Janet Hoskins**, St. John's College; **Jo-Ann Kubin**, University College; **Janice Linton**, Neil John Maclean Health Sciences Library; **Ann Lugsdin**, music; **Sabine Mai**, Manitoba Institute of Cell Biology; **Walt McKee**, physical education and recreation studies; **Francine Morin**, education; **David Ness**, student affairs; **Carol Ann Odwazny**, public affairs; **Jan Oleskiewicz**, engineering; **Lance Roberts**, sociology; **Janet Sealey**, arts; **Mark Torchia**, medicine; and **Rene Van Acker**, agricultural and food sciences.

**New External Relations Office on Bannatyne Campus**

In recognition of the importance of external relations and to focus on the needs of the faculties of Medicine and Dentistry, a new External Relations office on the Bannatyne Campus has been established. The department, which includes a development officer, an alumni relations officer and a public affairs officer, is led by head of dental diagnostic and surgery science, **Shirley Gelskey**, who has been appointed assistant dean, external relations, Bannatyne Campus.

# alumni achievements

*Graduates of the University of Manitoba*

*go on to become society's critical thinkers,*

*entrepreneurs, social leaders, artists and*

*scientists, who create jobs, make new*

*discoveries and add social and cultural*

*improvements to our way of life.*



**Rene Van Acker,**  
agricultural and food  
sciences, honoured  
with a University  
Outreach Award.



**U of M Grads Excel in Film and TV**

**Frantic Films**, led by **Ken Zorniak**, BComm(Hons)/93, vice-president, producer, project manager, and **Jamie Brown**, BSc/88, chief executive officer, received the Broadcast Entrepreneur of the Future award from CanWest Global Communications, and Innovator of the Year at the fifth annual Winnipeg Chamber of Commerce Innovation Awards. Frantic Films recently completed TV series *Quest for the Bay*, which aired on the History Channel in January 2002, and produced the special effects for the explosion scene in the John Travolta movie, *Swordfish*.

**Sean Garrity**, BA/92, won best Canadian first feature for *Inertia*, and **deco dawson**, BEd/00, won best short film for *FILM (dzama)* at the 2001 Toronto International Film Festival. *Inertia* is a romantic comedy set in Winnipeg; *FILM (dzama)* is a 29-minute experimental film drawing on the works of Winnipeg visual artist Marcel Dzama, BFA/97.

**Sean Lewkiw**, BA/88, was part of the team that won Best Visual Effects for *Lord of the Rings: Fellowship of the Ring* at the 2002 Academy Awards. Lewkiw works for Weta Workshop, a New Zealand-based visual effects firm.

**Laura Michalchyshyn**, BA/89, senior vice-president of dramatic programming, Alliance Atlantis Broadcasting, is becoming one of Canada's most powerful broadcast executives. For the last four years, since being lured away from WTN by Showcase Television, she has defined and shaped the specialty cable channel's niche as the home of provocative fare—"Television without Borders."

**Alumni Garner Numerous Accolades**

**Arthur DeFehr**, BComm/64, LLD/98, president of Winnipeg-based Palliser Furniture, won the Lifetime Achievement Award at the Ernst & Young Prairie Entrepreneur Awards. The award is bestowed on individuals who exemplify entrepreneurship of a world-class calibre. At the same event, **Chuck Loewen**, BSc(Hons)/85, founder of Online Business Systems and **Robert Silver**, BSc/70, president of Western Glove Works Ltd., also emerged victorious—Loewen in the e-business category and Silver in the manufacturing category.

**Valdine Anderson**, BMusPerf/89, won for the best classical recording, for *Mahler's Symphony No. 4* at the third annual Prairie Music Awards. Anderson has been the featured soprano with orchestras all over Europe and North America, and has recorded extensively.

**Paul Normandeau**, BA(Hons)/75, MA/76, CertEd/81, was awarded the NFL/CFL National High School Coach of the Year Award. Normandeau, a teacher at Kelvin High School and the Kelvin Clippers' football coach since 1988, was nominated by Scott Coe, a former Kelvin player who is now a CIS First-Team All-Canadian Bisons linebacker.

**Valdine Anderson,**  
BMusPerf/89,  
winner at the third  
annual Prairie  
Music Awards.





*Jamie Brown BSc/88 and Ken Zorniak*

*BComm(Hons)/93 of Frantic Films,*

*recipients of the Broadcast Entrepreneur*

*of the Future award from CanWest*

*Global Communications.*



**Gilles Pinette,**  
BSc/93, MD/97, received  
a National Aboriginal  
Achievement Award.

**Karen Lyon Reid**, BID/84, won the 2001 Award for Excellence in Research from the National Facilities Management Association, and the Award for Innovation in Product Supply from the National Association of Women in Construction. Lyon Reid is manager of accommodation, strategic planning and executive projects with the Queensland State Government in Australia.

**Gilles Pinette**, BSc/93, MD/97, received a National Aboriginal Achievement Award, which honours the contribution of working professionals. Pinette, associate director of the university's special Pre-Medical Studies program, is the host of the Aboriginal Peoples Television Network's Aboriginal health showcase, *Medicine Chest*, and practises family medicine in Winnipeg where he treats his patients using a mixture of modern-day Western medicine and traditional Aboriginal teachings.

**Shirley L. Render**, BA/64, MA/84, received the International Northwest Aviation Council 2001 Roll of Honor Award for Distinguished Service to Aviation. Render has filmed three documentaries and authored two books on Canadian aviation history.

**Sir George Bain**, BA(Hons)/61, MA/64, was knighted in London, England. Bain is head of Belfast's Queen's University and grew up in Winnipeg. Bain was given a knighthood for services to higher education and for heading an inquiry into establishing a minimum wage in Great Britain.

**Israel Asper, O.C.**, BA/53, LLB/57, LLM/64, LLD/98, was awarded the prestigious Edmund C. Bovey Award for leadership in support of the arts. The award, presented annually by the Council for Business and the Arts in Canada, recognizes business leaders who have contributed vision, expertise, time and money to the arts.

**Michael Phelps**, BA/67, LLB/70 and **Howard Pawley**, BA/57, LLB/61, were appointed officers of the Order of Canada, and **Alice Cheatley**, BA/64, BEd/64, MEd/73, **Allan Rae Downs**, MD/54, DipSurg/58 and **Vernon Burrows**, BSA/51, MSc/53, were appointed members of the Order of Canada.

**Saul Cherniack**, P.C., C.M., LLB/39, **Sterling R. Lyon**, BA/48, LLB/53, **Murray Smith**, BSc/55, and **Monty Hall**, BSc/46, LLD/87, were appointed to the Order of Manitoba for their outstanding contributions to the social, cultural or economic well being of Manitoba and its residents.

**Diana Thorncroft**, BFA(Hons)/79, and **Laura Letinsky** BFA(Hons)/76, were the only two Canadian photographers selected for inclusion in the book BLINK, an overview of contemporary photography. BLINK contains the works of 100 photographers who have broken new ground in photography in the last five years. Thorncroft also teaches drawing at the University of Manitoba.

**Kathleen Arthur**, BSc(Hons)/76, former Managing Director of Norsk Chevron AS in Oslo, Norway is the new vice-president of the Gulf of Mexico Deepwater Business Unit (DBU). Chevron's DBU is one of the company's two New Orleans-based strategic business units focused on exploration and production in the Gulf of Mexico.

**Pamela LeBoldus**, BA/63, is chair of the 125<sup>th</sup> Anniversary celebrations for the University of Manitoba. LeBoldus has a long history with the university, as member and chair of the Board of Governors, president of the Alumni Association and as co-mayor of the Pan Am Athletes village. LeBoldus has also been an active volunteer in Winnipeg for over 30 years and received the Premier's Volunteer Service Award in 1999.



**U • FACT**

- 150,426 graduates since 1877
- 118,528 known living alumni
- 71,109 graduates living in Manitoba (53,864 in Winnipeg, 17,245 elsewhere in Manitoba)
- 36,413 graduates living elsewhere in Canada; 6,829 in the U.S. and 4,717 throughout the rest of the world





*University staff*

*volunteering at*

*Campus*

*Beautification*

*Day.*

# administration

*The University of Manitoba continues its commitment to ensuring its people, products, partnerships and processes achieve the goal of making our instituion a leader in advancing knowledge and understanding in Canada.*



## New Buildings Transforming University

The university is embarking on a multi-year, infrastructure renewal program that will add new buildings and significant upgrades to existing facilities across the university.

The new projects include the new 300-bed **Arthur Mauro Student Residence**, the **Engineering and Information Technology Complex**, the **Centre for Music, Art and Design** and the expectation of three new building projects in Smartpark. A renovation and expansion of the Agricultural Engineering building which began in Spring 2002 will help make way for the Engineering and Information Technology Complex.

New developments in Smartpark include:

- Smartpark Development Corporation is building a 30,000-square-foot \$3-million multi-tenant facility for new high-tech companies.
- The University has begun work on its new \$25-million Centre for Functional Foods and Nutraceuticals.

## University Centre Roof Repaired

The university's physical plant completed the second phase of a \$1-million project to upgrade and repair the University Centre roof with a better irrigation system, new paving, lighting and landscaping. Extra care was taken to ensure that the current crop of trees and plants on the roof survived the construction project.

## University Responds to September 11

The International Centre for Students, the Aboriginal Student Centre and the university chaplains hosted a solidarity gathering on September 14, 2001, for those affected by the events of September 11. The event included a native healing ceremony conducted by Elder-in-Residence **Roger Armitte**. Although the event was planned for international students, it grew to include many others from the university community.

On September 18, a memorial service was held in the Duckworth Quadrangle followed by a roundtable discussion sponsored by the University of Manitoba Students' Union.

## United Way Campaign Raises over \$325,000

The University of Manitoba's United Way campaign raised \$329,619, or more than \$8,000 above the goal set for the 2001 campaign. The final result includes donations from both the Fort Garry and Bannatyne campuses and from retirees, and \$19,678 raised through special events. The university's United Way campaign is one of the largest employee campaigns in Winnipeg.

## A Little Colour Makes a Big Difference

About 800 volunteers pitched in by planting flowers, cleaning streets and weeding gardens during the fourth annual Campus Beautification Day at the Fort Garry and Bannatyne campuses on May 25, 2001. Staff in physical plant co-ordinate the massive one-day cleanup.

## Service Focus through Administrative Systems Renewal

The University of Manitoba plans to enhance service delivery through the Administrative Renewal Project. The objective of this project is to replace old mainframe technology with new systems in Human Resources, Financial Management and Student Information to improve the efficacy and efficiency of the administration of these services.

## Twelfth Lap for Sneaker Day Walk

University staff at Fort Garry and Bannatyne campuses donned costumes and joined the 12<sup>th</sup> annual Sneaker Day Walk on May 9, 2001. The walk kicks off Recreation Services' Summer Active Fun Leagues campaign. Through the event, Bannatyne campus raised over \$1,600 for the child life department, which supports both the Children's Hospital and CancerCare Manitoba.

## University of Manitoba Host of Risk Management Conference

The University of Manitoba served as host to the Western Canadian University Risk and Liability Conference in November, 2001. The conference provided an opportunity for over eighty delegates, representing twelve universities, to discuss how to ensure safe university campus environments.



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2001-2002



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Wayne Anderson  
B.S.A., M.B.A.



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B.A. (Hons.), Ph.D., LL.D.

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Joanna Plater  
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Harry W. Duckworth  
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Assessors

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University of Manitoba Students' Union

Ranjan Roy,  
University of Manitoba Faculty Association

Linda Chartier,  
Support Staff

Elected by Graduates



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B.S.A., M.B.A.



Ian Smith  
B.Sc., M.Sc., Ph.D, D.Sc.



Wendi Thiessen  
B. Comm. (Hons.), M.B.A.

Elected by The University of Manitoba Students' Union



James Kusie



Nicholas Louizos



Romel Dhalla  
B.A.

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Vice-President (Academic) and Provost

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School of Dental Hygiene

Salme Lavigne, Dip.D.H., B.A., M.S.

School of Medical Rehabilitation

Juliette (Archie) Cooper, Dip.P. and O.T., B.O.T., M.Sc., Ph.D.

School of Music

Dale Lonis, M.Mus., Ph.D., Mus.Ed.

Continuing Education Division

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St. Andrew’s College, Principal

Vivian Olender, B.A.(Hons.), M.A., Ph.D.

Collège universitaire de Saint-Boniface, Recteur

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St. John’s College, Warden

Janet Hoskins, B.E.S., M.Sc., Ph.D.

St. Paul’s College, Rector

John Stapleton, B.S., M.T.S., M.A., Ph.D.

University College, Provost

Gene Walz, B.A., M.A., Ph.D.

University 1

Beverly Cameron, B.A., M.A., Ph.D.





# economic and social impact

*The University of Manitoba has throughout its history contributed substantially to the economic, social and cultural development of Manitobans through outstanding instruction, research and community service. The university is the only research-intensive university in the province, and the largest and most comprehensive, with more than 79 degree, diploma and certificate programs and nearly 45,000 students.*

## Economic Impact

To a degree that is unparalleled among universities in other provinces, the University of Manitoba plays an indispensable role in the province's economy, providing education and research in areas relevant to Manitoba's industrial sectors. For example, the new Centre for Functional Foods and Nutraceuticals will enable Manitoba producers and processors to contribute to an important new industry; ISIS Canada (Intelligent Sensing for Innovative Structures) takes cutting-edge research to reality in monitoring the health of bridges and other civil structures; and the Transport Institute collaborates extensively with partners throughout the transportation industry to advance Manitoba's interests in the world.

The economic impact of the university for the fiscal year ending March 31, 2001 has been studied, based on a model developed by the Manitoba Bureau of Statistics. The study revealed that the university, which is one of the province's largest employers, expended \$406.8 million in serving its mission, which contributes directly to the economy. Of this expenditure, \$254.3 million is attributed to the general campus operation including all aspects of academic delivery, staffing and operation of university facilities. Research and special project activity accounts for \$127.6 million of the direct expenditure. The self-sustaining operations of the book store, parking, residences and the pharmacy post office account for \$22.5 million; in addition, \$2.4 million is allocated from trust and endowment funds to support scholarships and bursaries.

When considering the indirect "spin-off" resulting from the university's expenditures, the university contributes almost \$1 billion to the Manitoba economy. As a result of its activity, the university is estimated to contribute to the employment of over 9,000 Manitobans and generates over \$140 million of tax revenue for the three levels of government.

The University of Manitoba is responsible for the bulk of the research activity in the province. The university's research and special project expenditures of \$127.6 million in 2000-01 are estimated to have a gross impact of \$332 million with estimated employment of 2,530 full-time equivalent jobs. These calculations demonstrate the significance of the role played by research activity; however, they do not quantify the impact of innovation and technology discovery on the private and public sectors which are known to generate significant economic and social value.

Over the past four years, the University of Manitoba continued to experience growth in the number of invention disclosures and, over the same time period, licensing revenue grew from \$1.3 million in 1998-1999 to \$2.4 million in 2001-2002. The university ranks fourth out of fifteen universities in its performance in licensing income received and ranks sixth out of fifteen in U.S. patents issued.

The figures for research activity are substantial; however, beyond the numbers can be seen the increasingly critical role that the University of Manitoba plays in maintaining a knowledge-based economy and a skilled and knowledgeable

workforce that allow the province to compete favorably on the world stage. Through its alumni, students and faculty, the University of Manitoba produces a highly qualified workforce, giving business and industry a crucial reason to settle and stay in the province. The university also helps create and sustain a warm business climate by sharing expertise, laboratories, and advanced technology with other universities, government agencies and the private sector.





Social Impact

Encouraging an educated citizenry is one of the most important responsibilities of any university. The University of Manitoba prides itself in particular on a philosophy of accessibility and inclusivity, and on welcoming all students with a desire to learn – from all backgrounds, ethnicities, financial circumstances and interests. For example:

- The Access programs, first established in 1975, have given the opportunity to refugees, Aboriginal peoples, and people living in remote locations the opportunity to pursue university studies. The programs, from which there have been more than 1,000 graduates, provide support to the students who graduate with the same qualifications as all other University of Manitoba students. Access programs have a long history of educating high-performing individuals in all fields who have become leaders and role models in the province and in the country, and especially in Aboriginal communities.
- In partnership with the Department of National Defence, the University of Manitoba provides Canadian military personnel with the opportunity to complete degrees through the Canadian Forces University Program in the Continuing Education Division. The program accommodates the extensive mobility of people in the forces, offering net-based study and correspondence courses as well as on-campus study. Since the inception of this program, 1165 students have graduated.
- International students experience a top-quality education at the University of Manitoba and benefit enormously from the contacts made among faculty and students. In turn, they bring a wealth of knowledge and insight about their own countries which adds to the rich diversity found on the university’s campuses. The benefits of mutual respect and understanding open the doors to potential partnerships in business and research after international alumni return home – critical in an increasingly global economy.

Indeed, the University of Manitoba encourages people at a young age to consider post-secondary education through the outstanding programs of Mini-University, designed to introduce young students to the rewards of the various academic disciplines; and of Biz Camp, which empowers underprivileged youth with the experience of entrepreneurship.

University of Manitoba graduates influence significantly the cultural landscape of our province. The cultural communities of the university offer a rich and diverse cadre of talent and creativity. Manitobans look to our university as an impressive and invigorating cultural base for the province. We have produced artists, musicians, actors, environmental designers, city planners and cultural leaders who have raised the quality of life in Manitoba and throughout the country.

The University of Manitoba contributes to the province with every graduate who remains in Manitoba. Since most graduates with professional degrees stay in the province, the university provides Manitoba a continuous supply of dentists, physicians, engineers, lawyers, nurses, teachers, social workers, rehabilitation specialists, pharmacists, architects and information technology specialists.

\*\*\*

In its 125<sup>th</sup> year, the University of Manitoba is positioning itself to meet the growing demands of the province and of society in the new global economy. With eyes firmly on the future, the university maintains an unwavering commitment to outstanding programs and teaching, leading research and caring community service, to the benefit of all Manitobans, and people throughout the world.



financial report

*The University of Manitoba strives to be responsive and to develop new opportunities*

*for the benefit of its community, while managing almost \$450 million in annual*

*revenues in a fiscally responsible manner. The University seeks to make significant*

*contributions to the citizens of Manitoba, Canada and abroad through its work*

*in education, research and community service.*

Accountability: The Focus on Results

An Overview of the 2001-2002 Fiscal Year

In serving its mission, the University of Manitoba is accountable to the citizens of Manitoba and reports regularly through the annual report and other media about its activities and outcomes. In the following analysis of the 2001-02 performance results, activities and outcomes of the university that demonstrate the value of investment in the university are highlighted.

During 2001-02 student enrolment grew for the fourth consecutive year, with an average across all faculties of 7%. The growth in enrolment is double that experienced in 2000-2001 and this trend of increasing student enrolment is one that is anticipated to continue in the near term. Given the provincial freeze on tuition fees, any increase in tuition fee revenues is due almost entirely to growth in student numbers. The growth of almost 8% in student tuition and related fees essentially mirrors the growth of student enrolment. For 2001-2002 tuition revenue comprised approximately 23% of the total General Fund revenues. Table 1 depicts the tuition income in relation to student numbers and the operating grant.

Operating Grant\*, Tuition Income and Standard Student\*\* Numbers Between 1979-1980 and 2001-2002

(Operating Grant and Tuition Income adjusted to 1979-1980 constant dollars using CPI)

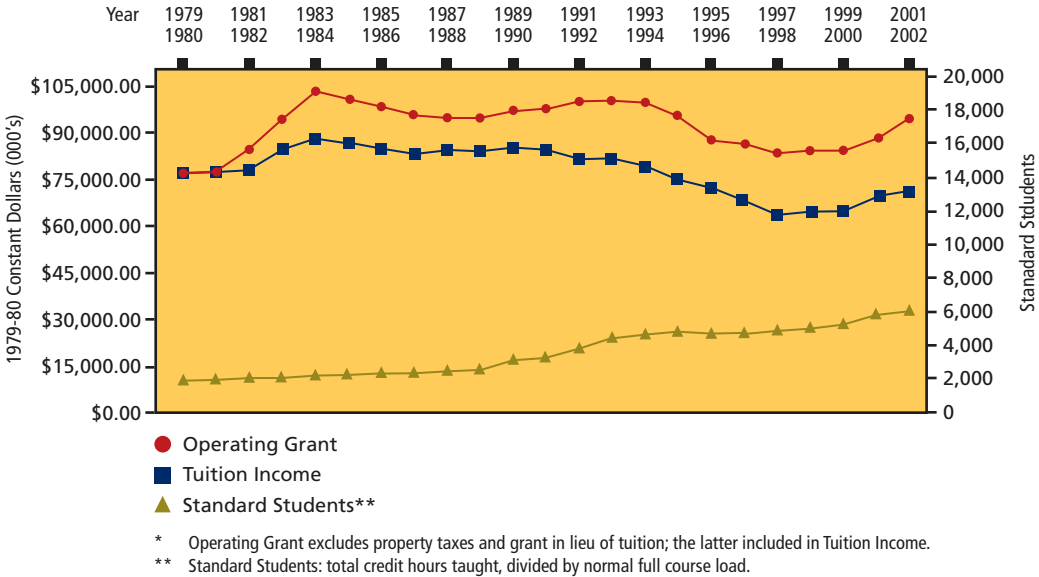


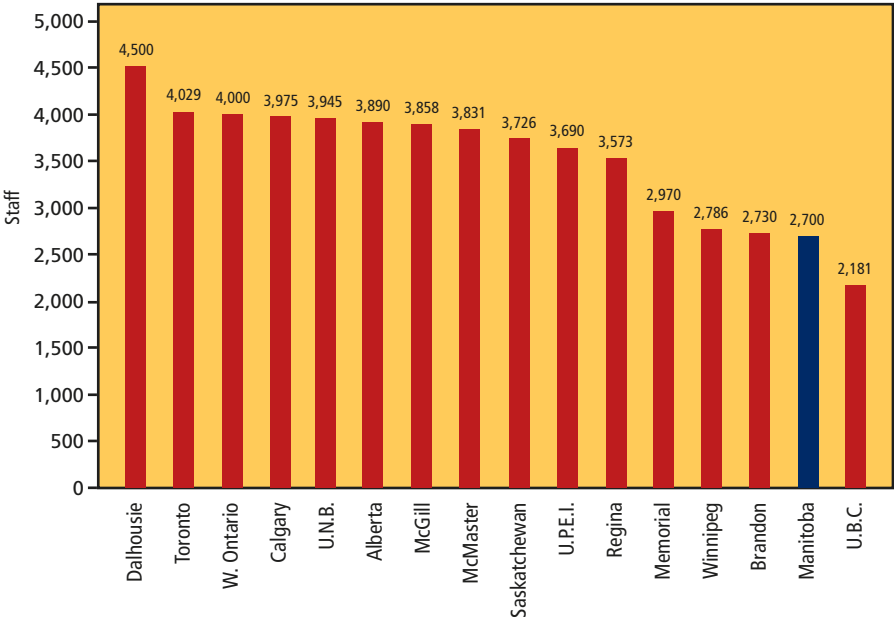
Table 1



The challenge arising from enrolment growth is to build the resource infrastructure of the university to accommodate this increased demand and ensure that the university is able to serve the expanded range of learners arising from this growth. Growth in enrolment cannot by itself generate sufficient additional revenues to cover the costs associated with graduating students with a quality education and providing the infrastructure necessary for the creation of knowledge. At best tuition fee revenues cover 50% of the total costs of course programming, and in some professional programs tuition fees cover only about 20% of total program costs.

Table 2 depicts comparative undergraduate tuition fees of selected Canadian universities for 2001-2002. In addition to the tuition freeze at 1999-2000 levels, the Province of Manitoba, through the Council of Post-Secondary Education (COPSE), continued to offer a 10% rebate of tuition fee for students. For 2001-2002 this amounted to \$6.8 million reimbursement to the University of Manitoba for tuition fee rebates provided to students. During this same period the university expenditure in scholarships, bursaries, prizes and awards increased by \$1.0 million for a total of \$8.0 million directed to students. The university and its donors and supporters continue to work diligently in increasing financial support to enhance access to this institution.

**Comparative Undergraduate Tuition Fees of Selected Canadian Universities for the 2001-2002 Academic Year**  
(30 Credit Hours of Arts Courses)

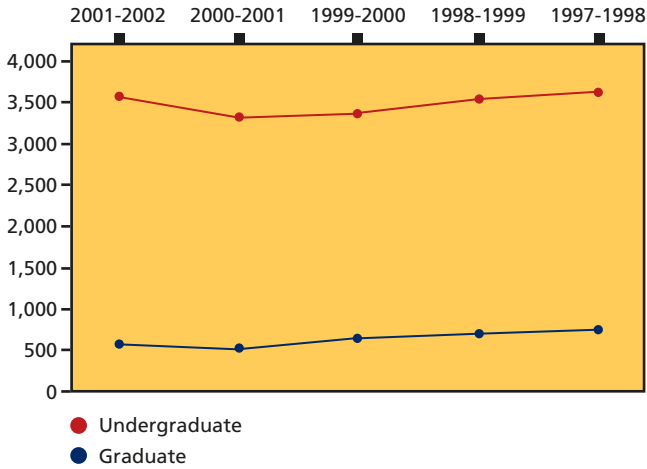


1. The fees for the University of Manitoba, University of Brandon and University of Winnipeg reflect the 10% rebate received by Canadian students from the Manitoba Government.

**Table 2**

Table 3 details the Degrees, Diplomas, Certificates conferred for the fiscal year 2001-2002 as 4,097 for both undergraduate and graduate programs. This outcome represents a growth of 5% over the previous year.

**Degrees, Diplomas, Certificates Conferred**



**Table 3**

For 2001-2002, COPSE grants to the University of Manitoba increased by \$10.7 million (a 5.5% increase over the previous year) for a total of \$205.8 million. The funds provided by COPSE are essential to sustain the University operations and account for almost 61% of the university General Fund revenues (\$320.0 million) for last year, and 46% of Total Fund revenues (\$450.0 million). Increased funding from COPSE includes increases in the amount of the 10% rebate for tuition fees, increase in the operating grant to support operating cost increases and an increase to grants for special program initiatives approved through COPSE. Special program areas funded included Nursing, Social Work, Computer Science, and the Access programs. The funding of the Manitoba Nursing Education Strategy (\$5.6 million) and Access programs (\$3.0 million) were previously funded from other Province of Manitoba sources, which for the most part relate to specific research and education priorities, and account for 4.5% of Total Funds revenues.

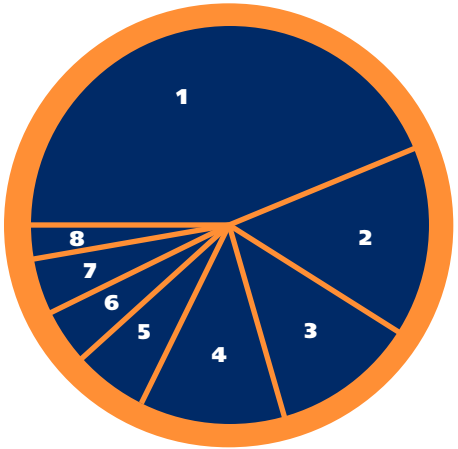
Incremental COPSE operating grant funding, which partially addresses cost increases, is important to the university. However, the challenge remains to find additional funding to cover the full costs of operating a research-intensive university and this continues to be a significant concern to the university. Expanded student numbers and program requirements challenge the capacity and infrastructure of the university. Maintaining and expanding the aging facilities, continually advancing technologies and enhancing the capacity of human resources through both development and recruitment effort are vital to the continued success of the university in serving its mission.

Key contributors to the revenues of the University of Manitoba include our large community of local, national and international donors (10.3% of Total Funds revenues). The Government of Canada (10.3% of Total Funds revenues) represents primarily contributions to specific research priorities from the federal granting councils. In addition, the university generates investment income (2.7% of Total Funds revenues) and revenues from support services offered through its ancillary enterprises (5.7% of Total Funds revenues). The sale of various goods and services (4.3% of Total Funds) generates revenues for several faculties. Table 4 details the breakdown of the various sources of revenue for the University of Manitoba.

For 2001-2002, the university experienced a 6% decline in the Total Funds revenue earned from the various sources noted above as compared to 2000-2001 (\$450.0 from previous year \$478.5). For the most part, this decline can be attributed to the timing of the receipt of significant capital campaign donations and to investment gains recorded in the previous fiscal year as a result of an accounting recognition of previously unrealized gains. To a lesser extent, the decline in revenue can be attributed to timing differences associated with research activities that impact grant revenue recognition.

In 2001-02 the University of Manitoba publicly announced the \$200 million *Building on Strengths: Campaign for the University of Manitoba* to raise the necessary funds to support numerous projects, including infrastructure renewal, scholarship funding and library support. By year end the university had \$148.6 million in pledged support, including \$50 million from the Province of Manitoba, and set a target of achieving the campaign goal by the end of 2003.

**The University of Manitoba  
Total Revenue - All Funds (General Operating \$320M; Restricted \$123.9M; Endowment \$6.1M) 2001-2002**  
(in thousands of dollars)



**Table 4**

1	Council on Post-Secondary Education	\$ 205,769
2	Tuition and Related Fees	73,713
3	Contrib., Donations, Non-Gov. Grants	48,285
4	Government of Canada	46,243
5	Ancillary	25,591
6	Sales of Goods and Service	19,396
7	Other Province of Manitoba	18,702
8	Investment Income	12,253
	<b>\$ 449,952</b>	



University Operations

General Operating Fund

The University operating budget for 2001-2002 together with a comparative summary statement of operations is included at Table 5. Revenues are shown by source and expenditures by function to provide a general understanding of the revenue and expenditure activities related to the General Operating Fund. Total operating revenues increased by \$18.9 million (6.2%) over the previous fiscal year. Most of this increase is attributed to the increased COPSE funding for specified programs and initiatives and the increased tuition fee revenues relating to student enrolment.

General Operations

Summary Statement (in thousands of dollars)

	April 1, 2001 Budget	March 31, 2002 Actual	March 31, 2001 Actual
Revenue:			
Council on Post-Secondary Education grants	\$ 193,748	\$ 194,254	\$ 183,913
Other Province of Manitoba	50	1,203	576
Tuition and related fees	68,941	73,713	68,306
Ancillary Enterprises	24,629	25,591	24,714
Sales of goods & services	17,657	19,396	19,418
Investment & other revenues	7,806	5,848	4,223
	<u>312,831</u>	<u>320,005</u>	<u>301,150</u>
Expense by Function:			
Instruction	\$ 179,494	\$ 195,210	\$ 183,083
Physical Plant	30,551	28,166	29,002
Ancillary Enterprises	24,629	25,045	23,239
Property tax	15,889	12,990	6,635
Central reserves *	17,497		
Administration	12,227	12,749	11,887
Student Services	11,587	11,931	11,457
Libraries	16,199	17,566	15,762
Other	4,758	6,793	7,146
	<u>312,831</u>	<u>310,450</u>	<u>288,211</u>
Net Revenue		9,555	12,939
Net Transfer to Other Funds		(9,205)	(12,641)
Net Increase to Fund Balance	\$	\$ 350	\$ 298
Expense by Object Code:			
Academic salaries	\$ 92,110	\$ 98,392	\$ 94,043
Other instruction salaries	7,743	11,282	9,800
Support staff salaries	67,706	72,755	67,401
Staff benefits	25,386	26,909	24,798
Payroll tax levy	3,550	3,868	3,625
Supplies and expenses	45,497	47,525	47,389
Ancillaries cost of goods sold	14,152	14,987	14,886
Utilities	17,279	15,305	14,210
Library acquisitions	6,022	6,437	5,424
Central reserves *	17,497		
Property tax	15,889	12,990	6,635
	<u>\$ 312,831</u>	<u>\$ 310,450</u>	<u>\$ 288,211</u>

\* Represents funds budgeted for distribution to units' budgets during the year for salary and contract increases and other centrally funded purposes.

Table 5

General operating expenses increased by \$21.0 million during fiscal 2001-2002. For the most part the \$21.0 million of increased expenditures related to cost increases of ongoing operations. In review of the expenditures by function, 57% of the increased expenditure is attributable to instruction, 30% is related to increased expenditure in property taxes and the remaining 13% of expenditure increase is attributable to general operations including the libraries, student services and administration.

In review of the expenditures by expenditure type, 64% of the \$21.0 million expenditure increase is attributed to salaries and related benefits cost increases. Over the course of fiscal 2001-2002 there was a net increase in academic and support staff of 118 positions. Table 6 depicts historical comparisons of academic and support staff positions. Finally, 30 % of the increased operating expenditure is related to increased expenditure in property taxes and the remaining 6% is attributed to various items including supplies and expenses, cost of goods sold, utilities and library acquisitions.

Property taxes for 2001-2002 are double that recorded in fiscal 2000-2001 as tax expenditures had been reduced for that prior year by a one-time retroactive property tax re-assessment and refund. Near the end of fiscal year 2001-2002 the Province announced its commitment to adjust the assessment model for

universities and effectively phase out requirement for the university to pay property taxes on all property except residences and commercial use space. This phase out will take effect over the next five years.

Ancillary Enterprises of the university are operated on a break-even basis and for 2001-2002 they served the University community by offering affordable services in the bookstore, parking services, residences, the pharmacy and post office. The Ancillary operations are required to fund all operating and capital costs of their operations, as well as support debt repayment for their capital assets, renewal of technology infrastructure and help subsidize support services offered to the campus community such as Security Services.

Capital Asset Fund

In 2001-2002, the University invested \$56.2 million in capital. Of this \$27.1 million is attributed to physical infrastructure renewal that includes investment in items such as parking lots, buildings, roofs, and technology infrastructure to address significant problems faced as a result of the aging campus. In addition, \$12.5 million of the capital expenditure was invested in general equipment and furniture requirement, \$8.3 million was invested in technology equipment and finally, \$7.0 million was invested in library holdings and works of art. Vehicles and general capital leases account for the balance of the \$56.2 million capital expenditure.

Research Fund

In fiscal 2001-2002 a total of \$20.7 million was received for Special Projects in addition to the \$68 million relating to Sponsored or Assisted Research for a total of \$88.7 million (2000-2001 \$30.2 million and \$60 million respectively). Late in the fiscal year the Federal government announced a one-time grant in support of the indirect costs of research. This was received by the University subsequent to year end, and is not recorded in the current fiscal year. The University of Manitoba received \$5.5 million in indirect cost support from this Federal program.

Conclusion

Increased investment in the university is the right choice for Manitoba and will result in sustaining the capacity of the university to support learning, innovation in research and community service. The university acknowledges with gratitude the support of the Province and COPSE, and thanks all students, staff, alumni, and community stakeholders for their continuing support.

Historical Comparisons of Academic and Support Staff Positions

1979-2001

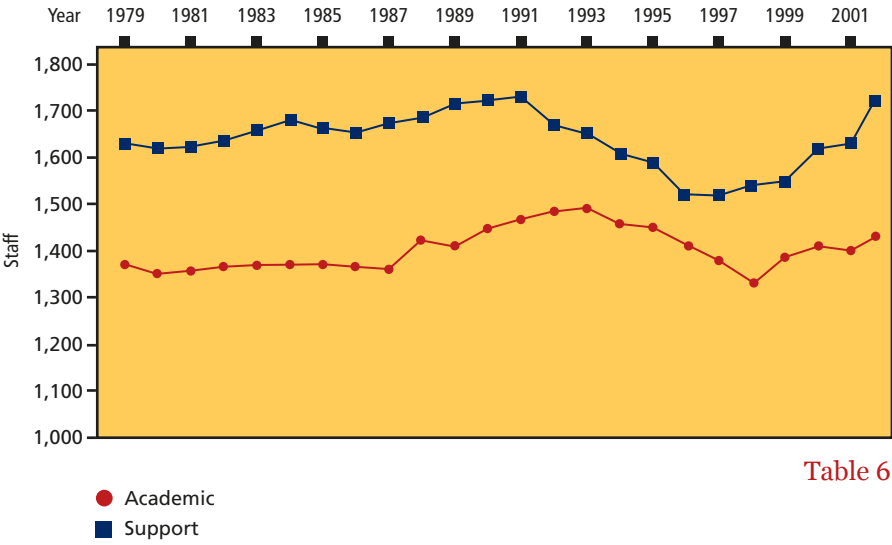


Table 6

● Academic  
■ Support

Notes:  
1. Staff positions are FTE operating budget postions (excl. ancillary services).  
2. Academic Librarians included in support staff.  
3. Strategic Initiative Fund FTEs included: starting in 2001/2002.



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 2001

Margaret Newall

Spring 2002

Jeffrey Simpson, columnist for the *Globe and Mail*  
Adrienne Clarkson, Governor General of Canada  
Murray Sinclair, Justice of the Court of Queen’s Bench in Manitoba  
Gerald Niznick, dentist, inventor, and entrepreneur  
Raymond Breton, sociologist

Emeritus Honours

Each year the Board of Governors confers “emeritus” status on academic staff members who distinguish themselves in leadership, scholarship and teaching. The recognition is awarded at retirement.

Dean Emeritus (2002)

John J. Stapleton, Education

Professors Emeriti (2002)

Francis Carroll, History  
Victor Chernick, Medicine  
Ian Robert Hamilton, Dentistry  
Richard Lebrun, French and European History  
William Muir, Biosystems Engineering  
Keith Sandiford, History  
John F. Templeton, Pharmacy  
John Wortley, History

Peter D. Curry Chancellor’s Award

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

Distinguished Professor Award

The title of Distinguished Professor is conferred by the university on academic staff members who have demonstrated outstanding distinction in research, scholarship, or creative professional activity as well as teaching. Not more than three candidates may receive this recognition each year, and not more than 20 professors may hold the title at one time.

Gerald Friesen (2001)  
Lotfollah Shafai (2002)



Margaret Newall



Murray Sinclair



Jeffrey Simpson



Gerald Niznick



Adrienne Clarkson



Raymond Breton

R.C. Armatage Award

Given annually to a student who becomes involved in and committed to the betterment of student life by serving on committees, councils and other governing bodies within the university.

Vasili Mattheos, Environmental Design

Distinguished Alumni Award

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

Jaroslav Barwinsky

Distinguished Service Award

Presented by the Board of Governors for exceptional contributions to Manitoba or the university.

Maureen Dowds (2001)  
John Dafoe (2002)  
Joseph Du (2002)



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