

At the centre of it all
annual report 2000 - 2001



UNIVERSITY
OF MANITOBA



Cover Story

The University of Manitoba is truly "At the Centre of It All" - contributing substantially to the cultural, economic and social well being of the people of Manitoba,

Canada and the world. In addition to top-quality research and caring community service, the university graduates thousands of outstanding students each year like

Edouardo López-Dabdoub (BMusPerf/01).

Born in El Salvador and living in Winnipeg since 1991, López-Dabdoub has been a finalist in clarinet at the Canadian Music Competitions and the National Music Festival and has participated in the

summer masterclass program at the Banff Centre for the Arts. He also

won the Lawrence Genser Performance Competition and has received numerous scholarships since enrolling at the University of Manitoba. López-

Dabdoub, who likes to perform in orchestral and chamber ensembles and as a soloist, says the University of Manitoba not only gave him the necessary theoretical training,

but also gave him the confidence to give live performances. López-Dabdoub attributes much of his success to Professor Naoum Gomon whose constant encouragement helped López-Dabdoub remain motivated. He is planning on pursuing a Masters degree in New York.





**The University of
Manitoba has recorded
yet another exceptional
year of achievement –
by our students, staff
and graduates.**

Message from the Chair of the Board of Governors

the University of Manitoba has recorded yet another exceptional year of achievement – by our students, staff and graduates – and in our contributions to the community and the world around us.

In 2000-01 our researchers were recognized through a variety of programs for their promise and innovation. We were proud to announce the first Canada Research Chairs earlier in 2001, and we continue to applaud our professors for their consistent results in garnering research funding from all the national and provincial granting agencies.

I want to express thanks on behalf of the Board and the university community to the Government of Manitoba for their unprecedented \$50 million commitment toward the renewal of the physical infrastructure of our campuses, in recognition of the University of Manitoba's key role in the economy of the province. We have pledged to match the government's commitment through *Building on Strengths: Campaign for the University of Manitoba* and we are confident that the university family and the community will step forward to support one of Canada's premier institutions of higher learning.

I wish to pay special tribute to Chancellor Arthur Mauro, whose third and final term ended May 31, 2001. He has been a stellar advocate for the University of Manitoba in the community, ensuring that business and community leaders understand the importance of the university to the people of the province. His association with the university has lasted more than 50 years, throughout which we have been the grateful beneficiary of his wisdom and diplomacy.

I also want to welcome Chancellor Mauro's successor, William Norrie, who is well-known for his commitment to the community. We are fortunate that he has agreed to lend his considerable talents to strengthen the university community for the good of the province and the nation, and we look forward to working with him.

The Board continues to be committed to working with the Council on Post-Secondary Education and the Government of Manitoba toward our mutual goal of ensuring the University of Manitoba maintains its place among Canada's top research-intensive universities. We offer our profound appreciation to President Szathmáry for her outstanding leadership, and to the faculty and staff for their unwavering dedication to excellence in teaching, research and administration.

Paul M. Soubry

Chair

Message from the President

The concept of citizens as stakeholders in public institutions is now established. Like shareholders in a corporation, stakeholders seek information about the growth in value of their investment, which is made for them by government. This is the fifth report submitted during my term as president that details a record of achievements against a background of prudent financial management.

This report compels thinking about the purpose of The University of Manitoba and the value of its education, research and community service. Though the university's significant economic impact on its community is periodically documented, the university's real value exceeds that which can be measured by dollars and cents. What sum can one equate with self-confidence and the self-actualizing ability that are by-products of a university education? What amount can measure the respect shown by international and national bodies towards professors? How do the recipients of the community service work undertaken by the university's staff and students express their regard for what they receive? How do alumni assess their *alma mater*? This report compels thinking about the valuation of such intangibles.

Consider, for example, the university's ACCESS programs, which were devised 25 years ago to assist aboriginal people, refugees, and people living in remote locations to undertake university studies. ACCESS provides academic and social counseling as well as financial aid, and ACCESS students meet the same academic requirements as do other students in their programs of study. Among the more than 1000 graduates of ACCESS programs are 35 engineers, 20 physicians and 50 lawyers of aboriginal ancestry. Their success, like that of the other ACCESS graduates, cannot be expressed in financial terms.

Examples of significant achievements and recognition of the work of professors, staff, students and graduates abound in this report. Nevertheless, the selection of a University of Manitoba professor for an award by the American Association for the Advancement of Science - the largest and most powerful body of scientists in the world - commands worldwide attention. Equally, the Phenomenal Woman Award, conferred this year on a University of Manitoba professor, draws broad public interest across the continent. Such recognition of faculty is invaluable. In the International Year of the Volunteer, many members of the university were nominated for Outreach Awards, and over 20 received them for volunteering their time and knowledge to benefit others. The array of honours given our graduates, whether it is one's naming as Prairie Entrepreneur of the Year, or receiving a medal authorized by the President of France and the French Interior Ministry, or becoming a Laureate of the Canadian Medical Hall of Fame, or receiving one of the Prime Minister's Awards for Teaching Excellence, is outstanding. This brief sampling of the cases listed in this annual report, attest the real value of The University of Manitoba to our community.

The gift of \$10 million to the I.H. Asper School of Business, and \$50 million from the Province of Manitoba to renew the university's physical infrastructure, demonstrate that an alumnus and government are convinced that the university is worthy of these levels of support. The University's gratitude to Dr. Israel Asper and our other benefactors whose actions show what they believe about their *alma mater*, is boundless. We are proud of government's investment in our institution.

On behalf of the university, I thank members of the Board of Governors, and especially its Chair, Mr. Paul M. Soubry, for their diligence and service to our institution. Finally, I salute Dr. Arthur V. Mauro, 11th Chancellor of The University of Manitoba, who for nine years embodied the values of the university. Dr. Mauro has been the university's unwavering friend in the world under all circumstances, and his gift of friendship has been and remains priceless.



Emőke J.E. Szathmáry
President and Vice-Chancellor

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.



University of Manitoba Takes Home Women's and Men's CIAU Titles for 2001

In a landslide victory for the University of Manitoba, the Bison women's and men's volleyball teams won the Canadian Interuniversity Athletic Union (CIAU) titles for 2001.

The Bison Women's no. 5-ranked team

captured the CIAU title in a four-set triumph over the no. 3-ranked Vert et Or from Sherbrooke (18-25, 26-24, 25-20 and 25-18) at the home court Investors Group Athletic Centre. This victory is head coach Ken Bentley's fourth national title in 15 seasons, but first since 1991-92 when the program captured its third title in a row. Kathy Hrehirchuk was named the Most Valuable Player (MVP).

The Bison Men's volleyball team defeated Laval Rouge et Or at Université Laval in Ste-Foy, Quebec, for a second straight year, giving the Bisons back-to-back CIAU titles. In his first season back since coaching Canada's national men's team for the past four years, head coach Garth Pischke led his no. 1-ranked team to a 3-1 (25-16, 23-25, 25-21, 25-14) victory over the no. 2-ranked Laval. Mike Munday was named tournament MVP, while Bryan Enns and Dan Lewis were named to the All-Star team.

Asper School of Business

Students Excel in International Competitions

Over the last five years, students from the I.H. Asper School of Business have won more international business plan competitions than any other Canadian school and have consistently won over the top-ranked US schools. Asper School students have won more than \$100,000 in prize money and raised over \$3 million in venture capital for their winning plans.

The Asper School's Finance Team—**Jonathon Dyck** and **Jean Potter**—won the Finance Case Competition in the Intercollegiate Business Competition at Queen's University, the most prestigious academic business competition in Canada. This was the first year American teams were invited to compete.

U Fact

The University of Manitoba offers 66 degrees, diplomas and certificates, 50 of which are at the undergraduate level.



Stephen Christie and Paul Grower, law students, brought home the Sopinka Cup after emerging victorious in the third annual national mock trial competition in Ottawa. In contrast to athletic competitions, mock court competitors have no idea whether or not they have won, or are winning, until all the trials are over. In fact, competitors can't watch any other trial in the competition until after they have completed their own trial. There were eight two-person teams in the national final with four mock trials over two days.

Anton Loukine and **Kim Liban** won the Treasury Management Association of Canada Student Essay Contest in September 2000. The essay was entitled, "Alternative Trading Systems: the Canadian Perspective." An edited version of their essay was published in the October/November 2000 edition of the *Canadian Treasurer*.

Sharath Cherian, third year student, I.H. Asper School of Business, was the recipient of the Student Entrepreneur of the Year award for his company HipHopDX.com—a hip-hop and culture website that allows fans and musicians to discuss and access the latest news and releases. The award, sponsored by CIBC, was presented at the Young Entrepreneurs awards dinner in Toronto, which was hosted by the Association of Canadian Entrepreneurs. The award is given annually to full-time Canadian university or college students running a business while attending school. Applicants were judged on their operation success, job creation, use of resources, innovation, community involvement and growth potential.

Students Shine at National and International Levels

Joey Mikawoz, a linebacker for the University of Manitoba Bison football team, was presented the 2000 President's Trophy, which honours the most outstanding defensive player in the Canadian Interuniversity Athletic Union. Twice named the CFL 'Radically Canadian' defensive player of the week, the mechanical engineering student was the heart and soul of the Manitoba Bisons defense this season. Mikawoz was also honoured with a First Team All-Canadian selection.

Dean Medeiros, a third year student in the Faculty of Science, was awarded a Learning Through Service Award. The award is from Canadian International Development Agency (CIDA), administered by Association of Universities and Colleges in Canada and funds a semester of international work experience to an undergraduate student. Only 12 such awards were made in Canada for this program, which is a CIDA pilot project.

Pat Tomczyszyn (BA/81, MSc/00) was awarded the Material History Review Student Writing Prize 2000 for Excellence in Canadian Material History Research. Her submission entitled "Sifting Through Papers of the Past: Using Archival Documents for Costume Research in 17th and 18th Century Quebec" was published in the Spring issue of the *Material History Review*.



Sharath Cherian,
Student of the Year
Award entrepreneur.

Marianne Amodio, a master's student in the department of architecture, has been appointed as a student representative to the Canadian Architectural Certification Board. Amodio is the first student appointed to the Board, making the University of Manitoba the first school directly represented.

Master of nursing student **Sarah Brown** was one of two Canadians awarded a Maurice Legault Clinical Cancer Nursing Fellowship, valued at \$18,870 (plus up to \$1,000 each for travel and tuition). Brown's research interest is palliative care with a focus on delirium in terminally ill cancer patients. The fellowship is sponsored by the Canadian Cancer Society.

Paul Komenda, (BSc/97) and fourth year medical student, received the Frosst Scholarship for the Best Clinical Study Project of seroepidemiology of *cryptosporidium parvum*, the parasite that can be found in Winnipeg's water supply.

Each year the North Central section of the Mathematical Association of America sponsors a mathematics Team Competition for undergraduate students. Sets of three students enter as a team, and compete with other teams from colleges and universities in the upper Mid-West. This year, four official University of Manitoba teams were entered in a competition of 54 teams. The four teams, coached by Robert Craigen, mathematics, finished in 4th, 10th, 13th, and 29th place. The 4th place team was composed of **Daniel Neilson**, **Kurt Thomsen**, and **Mark Wiebe**.

Sharla Cowling, student: agricultural and food sciences; balancing studies with hockey.



Sharla Cowling, a third year agricultural and food sciences student, not only plays defense for the Bison women's hockey team, while maintaining a 4.3 GPA, but thanks to her academic and athletic endeavors she has won numerous awards that have almost entirely funded her university career. This year's awards include: Isbister Scholarship in Agriculture - for highest standing in Agriculture; Stefansson Award in Plant Science - High standing, intention to specialize in Plant Breeding and Genetics, Plant Breeding or Agronomy; Dr. A.W. Hogg Undergraduate Scholarship - Highest standing in Agriculture; UMSU Scholarship - standing in the top 4 per cent of one's class; University of Manitoba Athletic Award - high academic standing while playing on Women's Hockey Team; George Weston Scholarship - high academic standing and demonstrated community involvement and exceptional communication skills.

Kareena Schnabl, presently pursuing her master's degree in pharmacy, received the Rogers Media Healthcare Publishing Fellowship worth \$15,000. The fellowship is awarded to deserving young Canadian researchers.

Zachary Pritchard, a PhD student in statistics working under the supervision of John F. Brewster, received a two-year grant of \$33,400. The grant was awarded to the Institute of Industrial Mathematical Sciences (IIMS) (Faculty of Science) by Manitoba Hydro for a project entitled "Robust Modeling and Prediction of the Demand for Electrical Power."

In June 2000, the University of Manitoba's aero design team took fifth place out of 24 competitors across North America for their plane - the "Flyin' Bison" - at a Society of Aerospace Engineers (SAE) competition in Palmdale, California. The purpose of the competition is for students to design, construct, and fly a remote-controlled aircraft in an effort to carry more cargo payload than their competitors. The team must also provide a 25-page design report, detailed plans and a ten-minute oral presentation. Team members included team leader **Patrick Lestition, Matthew Shewfelt, Damjan Simonovic, David Chuang, Morris Diaz, David Doerksen, Mike Hudek, Mark Shead, Richard Wareing, Geoff Gibbings, Curtis Mah** and pilot **Don Hatch**.

Ryan Yakimishen, a biosystems engineering student, was the recipient of the Marijane E. and William J. Adams Jr. scholarship of the American Society of Agricultural Engineers. The \$1000 scholarship is an annual award intended for students interested in careers in agricultural machinery product design.



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.

recognized for creating one of the world's premier infectious diseases groups. In addition, Ronald received the Ronald Christie Award from the Canadian Association of Professors of Medicine for 2000. Ronald is also leading a group of international experts to build Africa's first modern AIDS medical training facility, which will train 80 clinicians per year in the most advanced medical practices to combat the disease. Cardiac researcher **Naranjan S. Dhalla**, physiology, was also named a Fellow to the Royal Society of Canada in 2000. Dhalla is the Director of The Institute of Cardiovascular Services, a joint institute of the university and St. Boniface General Hospital.

Three professors in the Faculty of Arts were named in 2001 to the Royal Society of Canada and will be formally inducted later this year. **Gerald Friesen**, history, is an expert on Canadian history. His writings on cultural and political themes have helped to define the heritage of the prairie provinces and the nation. **Mary Kinnear**, history, pioneered research in the study of women's historical roles. In six books, she has used provincial and national sources to illustrate trends evident in modern industrial societies. **Garry Martin**, psychology, is an international leader in the study of behaviour modification. His pioneering research in behavioural training technologies has improved the quality of life for people by helping them engage in healthy adaptive behaviours. Thirty-nine professors of the University of Manitoba have been elected to the Royal Society.

U of M History Scholar Recipient of Rh Medal

Timothy Anna, history, was named the recipient of the 2000 Winnipeg Rh Institute Foundation Medal. Anna, whose research expertise is in the field of Latin American history, has been credited as revolutionizing contemporary thinking about the evolution of the Mexican state. He is also known as one of the world's leading scholars in 19th century political history. Anna is a past Killam Research Fellow and a Fellow of the Royal Society of Canada.

Top Scientists and Scholars at the U of M Elected to the Royal Society of Canada

five University of Manitoba staff have been elected to the Royal Society of Canada. Since its inception 119 years ago, the Royal Society of Canada has been regarded as a force for the enrichment, interpretation and strengthening of Canada's intellectual heritage. Its mandate is to promote and develop learning and research in the arts and sciences. Fellowship in the Royal Society is considered Canada's senior academic accolade to which scholars and scientists aspire.

Allan Ronald, professor emeritus, was named as a Fellow to the Royal Society of Canada (2000). He is



U Fact

The university employs 1,751 academic staff and 1,927 support staff.

Timothy Anna, history, and recipient of the 2000 Winnipeg Rh Institute Foundation Medal.



Greg Monks, anthropology, has recently been appointed to the Editorial Board of the journal *Archaeofauna*, which is the publication outlet of the Archaeozoological Association of Spain. Monks teaches archaeology and is interested in the analyses of faunal remains, particularly on the northwest coast of North America.

Six U of M Researchers Win Rh Awards

Six researchers at the University of Manitoba are winners of the 2000 Rh Awards. The honours are given to researchers who are in the early stages of their research careers and who display exceptional innovation, leadership and promise in their respective fields. Past winners have become internationally known researchers, so this recognition of early success augurs well for the future. The Rh Awards were established in 1973 by the Winnipeg Rh Institute from funds set aside from the sale and production of medical formulae. Each winner receives \$5,000 for further research.

Rae Bridgman, city planning, has a specialized interest in the social and cultural aspects of urban design and planning. Her research focuses on documenting the life histories of chronically homeless women and men, many of whom suffer from severe substance abuse addictions and mental illness.

Rhonda Martens, philosophy, has specialties in the history of philosophy and feminist scientific thought. Her focus has been on the writings of early astronomer Johannes Kepler, especially with regard to his philosophical views on God and the ultimate nature of reality during the scientific revolution of the 16th and 17th centuries.

Lorna Jakobson, psychology, is a recognized expert in the field of perceptual, cognitive and motor development. Her work on the functional organization of the primate cortical visual system is included in many introductory and graduate psychology textbooks. Her research includes an examination of Tourette's syndrome, autism and the neuropsychology of musical abilities and musical knowledge.

Robert Hoppa, anthropology, is studying historical issues of health and well-being in past populations. In skeletal biology, Hoppa is refining methods used to estimate life spans. In historical epidemiology, he is challenging traditional notions of declining health among Aboriginal populations. He is analyzing ethnohistoric, demographic and ecological data found in church records, the Hudson's Bay Company Archives, the National Archives of Canada and Medical Services Branch files.

Raghavan Jayaraman, mechanical and industrial engineering, is a Junior Natural Sciences and Engineering Council of Canada Industrial Research Chair in Aerospace Materials. The major portion of his research involves experiments with polymer composite materials used in aircraft engines, bridge reinforcement and other commercial applications.

Xi Yang, medical microbiology, has three avenues of active research, all supported by grants from the Canadian Institutes of Health Research. He is studying immunity to bacterial infection of chlamydia, a serious sexually transmitted disease, and the development of a possible vaccine against it. He is also examining the relationship between allergy and infection, looking at how certain bacterial infections appear to suppress asthma.

Staff Earn National and International Honours

Thomas Hack, assistant professor in the Faculty of Nursing, was recently awarded the first Dorothy J. Lamont Scientist Award. A joint effort between the Canadian Institutes of Health Research and the National Cancer Institute of Canada, the award recognizes Hack's "significant contribution to research aimed at enhancing the psychosocial well-being of people living with cancer." His research helps patients adjust to living with cancer and helps to enhance communication between patients and health professionals. Hack is also a member of the department of clinical health psychology, Faculty of Medicine, and is a clinical psychologist at CancerCare Manitoba.

Robert Roughley, agricultural and food sciences, had a new species of fly, *paraphytomyza roughleyi*, named after him—a great honour.

Carol Shields and **Clarence Barber** were named to the Order of Manitoba. Shields, professor emerita, was named for her contributions to the province through her novels, poetry, short stories and plays. She has received international acclaim for her writings, including the Pulitzer Prize and the Governor General's Award. Shields was inducted as a member of the Royal Society of Canada, and has received both a



Robert Roughley, entomology, had a new species of fly named after him.



The March of Dimes Birth Defects Foundation awarded David Eisenstat, Manitoba Institute of Cell Biology, the Basil O'Connor Starter Scholar Research Award. This prestigious international award is worth \$150,000 (US) over two years and will allow Eisenstat, an assistant professor in the Faculty of Medicine, to study the causes of blindness in children.

Guggenheim Fellowship and the Order of Canada. Barber, Professor Emeritus and former Distinguished Professor, was named for the contributions he made by tracking the historical circumstances and political context in which economic policy was formed. Barber is a member of the Royal Society of Canada and an officer of the Order of Canada.

Sheri Blake, architecture, has been selected as the recipient of a Fulbright Scholarship for her proposal entitled “Community Design Methodologies: A Community-Driven Approach to Planning and Design.” Research for the nine-month scholarship, worth \$15,000 (US), will be conducted at the Pratt Institute Centre for Community and Environmental Development, in Brooklyn, New York.

Helen Bochonko, education, was selected as a Distinguished Educator for a two-year term in an international program sponsored by Apple Computers. As part of this award she will participate in conferences and workshops, bringing together a “worldwide community of remarkably innovative K-12 and higher education educators” who are focused on excellence and leadership in education.

Roland Penner, law, has been named to the Order of Canada. The Order, which recognizes people who have made an impact in Canada, was bestowed on Penner for his implementation of legislation on freedom of information, human rights, Charter of Rights and Freedoms compliance and justice for crime victims during his time as Manitoba’s attorney general. He was also the founding chairman of the Legal Aid Services Society of Manitoba. **Jennifer Shay**, botany, was promoted to officer of the Order of Canada. She is a professor emerita in the Faculty of Science at the university, where she taught from 1959 until her retirement in 1993; she also helped found the university’s landscape architecture graduate program.

In 2000, the University of Manitoba won three awards from the Canadian Council for the Advancement of Education (CCA) 2000 Prix D’Excellence award program. This annual competition attracts close to 500 entries. CCA encompasses professionals in alumni affairs, fundraising, public affairs and student recruitment at colleges and universities in Canada. The winners were: **Angela Heck**, public affairs, bronze in the Most Improved Newsletter or Newspaper Category (The Bulletin); **Faye Hellner**, Partners Program, Faculty of Architecture, gold in the Best Private Sector Partnership category; and **Sandra Woloschuck** and **Brigitt Martin**, gold, Best Program: Alumni Affairs, for Homecoming 1999.



Judy Anderson, human anatomy and cell science, recipient of the Phenomenal Woman Award.

Judy Anderson, human anatomy and cell science, was honored with the Phenomenal Women Award, which is sponsored by the Phenomenal Women Organization. Anderson was one of six women chosen from 2000 nominations. The award was created by Amy Sky, a singer-songwriter, to celebrate women who have survived rough times in life (Anderson beat Multiple Sclerosis) and made a contribution to their community. The award winners were profiled on a Mother’s Day special broadcast on Global Television.

John Loxley, economics, has been awarded the 2000 Joseph Zuken Citizen Activist Award for his work with Choices, A Coalition for Social Justice and the Canadian Centre for Policy Alternatives. Loxley is a leading figure on the world development scene, serving as an advisor to the governments of Tanzania, Uganda, Mozambique, Madagascar, St. Kitts and Nevis, and South Africa. Loxley was also elected as the Chair of the board of directors of the North-South Institute.

Frank Plummer, internal medicine, has been appointed by Health Minister Allan Rock as the scientific director of Health Canada’s Canadian Science Centre for Human and Animal Health’s National Microbiology Laboratory—a facility that is the premier centre of microbiology, public health and scientific excellence in Canada. In his new position, Plummer will lead scientists responsible for the identification, investigation, control and prevention of infectious diseases.

Carol D. Hussa Harvey, family studies, received the National Council of Family Relations’ Certified Family Life Educator designation. Her research focuses on older Canadians, particularly ethnic Finns and Cree. She is also a professional home economist.



The ACCESS Program was selected by the Conference Board of Canada as one of two national winners of the first National Award for Fostering Aboriginal Learning and Achievement. Harvey Ranville, ACCESS Program Coordinator and Randy Hermann, Director ACCESS Programs

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.



The ACCESS programs also drew the interest of the Governor General of Canada, Her Excellency the Right Honourable Adrienne Clarkson and His Excellency John Ralston Saul who participated in a roundtable discussion of the university's ACCESS programs during their visit in August, 2000.

Student Affairs in Action: 2000-2001

- Student Affairs units continue to reach out to the university through their organization of major events. These events included the Week of Excellence in the fall; Information Days in the winter; and the Aboriginal Reunion Dinner and Powwow and Parents' Orientation in the spring. In addition, both fall and spring convocations continue to be major events for students and their families and friends.
- Student recruitment remains a major focus in student affairs' outreach activities, and a significant increase in the size of the first-year class was the result. Aboriginal student recruitment was given special attention with the hiring of an Aboriginal student recruitment officer and the establishment of the Aboriginal U crew - a group of seven Aboriginal students who made a substantial contribution in this area. The International Students Recruitment Project completed its second year and significant progress was made towards increasing the number of international students.

ACCESS Programs Continue Growing, Gaining Notice

The ACCESS Programs provide a support network for students without the same opportunities as others for a successful university experience due to social, economic, geographic or cultural barriers or a lack of formal education.

Since its inception in 1975, almost 1,000 students have graduated from the ACCESS Programs in a wide variety of degree programs.

By the end of 2000, the ACCESS Programs had many reasons to celebrate:

- The general ACCESS Program celebrated its 25th anniversary.
- The Special Premedical Studies Program celebrated its 21st anniversary.
- The Professional Health Program celebrated its 19th anniversary.
- The Engineering Access Program celebrated its 15th anniversary.
- The Nursing Access Program was initiated with the appointment of a Nursing ACCESS coordinator.
- The ACCESS Program was selected by the Conference Board of Canada as one of two national winners of the first National Award for Fostering Aboriginal Learning and Achievement.

U Fact

The U of M libraries carry more than 2 million books and bound journals; more than 9,000 subscriptions to periodicals and more than 2 million microforms and multimedia materials.

- Enrolment Services manages both the Canada Student Loan Program and the university's scholarships and awards. In the past year, \$25 million was awarded—a five per cent increase over last year. In terms of the university's own scholarship and awards program, 6,206 scholarships and awards were distributed (an increase of 19.65 per cent over the same period last year), with a total value of \$5,442,330 (an increase of 22.28 per cent over the same period last year).
- Direct service to students has increased dramatically. Student Counselling and Career Centre, Student Advocacy/Student Resource Services and University Health Services all report an increased demand for service.

UTS Enhances Teaching and Learning

University Teaching Services (UTS) initiates and organizes a wide range of activities for faculty and graduate students to enhance the quality of teaching and learning at the University of Manitoba. Some of the services and programs offered include:

- a spring workshop series with more than 50 sessions ranging from: Effective Questioning in the Classroom to Techniques for Teaching with Technology.
- a new faculty orientation offered in late August with seminars and workshops designed to integrate new faculty into the academic community (offered in partnership with the Office of the President).
- a Peer Consultation Program which allows faculty to work one-on-one with a trained consultant to enhance their teaching skills.
- a Teaching and Learning with Technology Grants Program which provides opportunities for faculty members to apply for grants to develop and/or test technology-assisted teaching and learning strategies.
- a certificate in higher education teaching program for PhD students to prepare them for a full range of faculty responsibilities and for other careers where presentation and communications skills are needed.

New Approach to Training Teachers

The Bachelor of Education (BEd) has gone from a four-year degree to a two-year after-degree program, reflecting a need for increased preparedness for teachers entering the schools. A significant part of this change is the inclusion of more time spent in school classrooms apart from courses on campus. Changes to the BEd program also include the development of three distinct streams, including early, middle and senior

years. Students in education, now called teacher candidates, will focus on a particular stream and devote studies to understanding how children learn within a specific stage of development.

Pilot Project for School Field Trips a Success

A Mini-University pilot project has been developed in conjunction with the Special Functions department to encourage high school students to pursue higher education by familiarizing them with the University of Manitoba.

The project provided students from Birtle Collegiate in Birtle, Manitoba a first-hand opportunity to learn about University of Manitoba offerings such as nursing, law, robotics, television production, theatre and sports in an alternative teaching setting. Students were provided with meals, accommodations and an activity-packed schedule over three days that met with rave reviews.

U of M Joins Network for Web-Based Education

The University of Manitoba has become a WebCT Institute, a program for colleges and universities committed to online training.

WebCT is the leading provider of web-based course tools. More than 6.8 million students are taught with WebCT courses in 56 countries around the world.

The university adopted WebCT as its online web-based course development platform in 1996 after an internal study of courseware products. Since that time, WebCT usage on campus has doubled every year.

The University of Manitoba joins the University of Alberta, the University of Western Ontario, Concordia University, the College of the North Atlantic and the University of British Columbia as Canadian partners in the WebCT Institute Program.

University to Recruit More Rural Medical Students

The provincial government and the University of Manitoba have teamed up to recruit students interested in working as physicians in rural and northern communities throughout Manitoba. With \$5.9 million in funding from the province over the next six years, the Faculty of Medicine will create 15 additional training positions. These new positions will restore first-year enrolment back to 85 positions from the current 70.

In addition, an action plan will encourage the recruiting, retention and training opportunities for rural physicians. The plan is based in part on a 1996 study by the University of Manitoba on low enrolments in rural and female medical students.

Learning Far Beyond the Classroom

Architecture students spent twelve weeks exploring the 13,000 acre Butala Ranch, one of the last remaining regions of uncultivated short grass prairie in Canada. Fourteen students ventured to the southwest border of Saskatchewan to study this rare landscape, and to design a series of research buildings that would work in harmony with the unique landscape.

In addition to investigating the prairie landscapes of Manitoba, Saskatchewan, and northern Montana in design studios, students worked with Herbert Enns, architecture, on the design of mobile architecture for Manitoba's network of northern winter roads.

Student Exchange Agreement

The university increased its international ties with the signing of a Student Exchange Agreement with Tokyo's Kokugakuin University. The signing, which took place at the University of Manitoba in August 2000, opens the way for the exchange of students between the two universities. This year's student exchange was a follow-up to a general agreement of co-operation signed by the universities in 1997.

For the past few years, a group of Kokugakuin University students accompanied by administrative staff members have been coming to the university to study English as a Second Language in the Continuing Education Division. This contact encouraged the development of greater links between the two institutions. Kokugakuin University is a 120-year-old institution and has approximately 10,000 students.

University 1 Helps Students Get Oriented

All new students entering University 1 (U1) are introduced to the University of Manitoba at informational Start@U1 sessions. Approximately 40 Start@U1 sessions were held in June and July to assist students in program and course selection and prepare them for the telephone registration process.

At Start@U1 sessions, students received a copy of the STARTbook, designed to help U1 students select and register for courses. During the academic year, U1 students received three issues of One, a newsletter containing timely information on topics such as voluntary withdrawals, university regulations, study skills, and career planning. A special U1 Orientation welcomed more than 3000 new students to the university before the start of classes in September.



Carolynne Presser,
director, libraries:
U of M Libraries
received an Innovation
Achievement Award.

U1 accepted its first student in September 1998, and it has continued to be a popular program with increasing enrolments. U1 gives students the "freedom to choose" to move directly toward a chosen field of study, as well as the opportunity to explore courses in a number of disciplines before selecting a career path.

Libraries Win Innovative Achievement Award

The University of Manitoba Libraries received an Innovation Achievement Award from the Canadian Association of College and University Libraries for their contribution to the development of GODOT (Generalized Online Document Ordering and Text). Known in the Libraries as the NETDOC Web Request Feature, GODOT provides researchers with an instant link from search results in the most popular citation databases to a list of libraries that hold the cited book or journal. A further link allows users to request documents easily and accurately from another library if they are not available locally.

Technology Resource Centre Opened at Elizabeth Dafoe Library

The new Elizabeth Dafoe Library Technology Resource Centre makes advanced equipment readily available to students. The centre, made possible through a \$100,000 donation by David and Rosemary Malaher, benefits thousands of students and staff from a full range of academic programs. The centre contains 16 computers and an instructor's station, and is used for library seminars, course labs and general use during regular library hours.

Barbara McMillan, education, recognized by students as an outstanding teacher.



Reception Honours Teachers Who Made a Difference

For the past nine years, the Students' Teacher Recognition Reception has given students from each of the faculties the opportunity to salute teachers from kindergarten to university who have influenced them the most.

The following University of Manitoba professors were recognized at this year's Students' Teacher Recognition Awards:

- Gregory Bridges**, electrical and computer engineering
- Ron Britton**, biosystems engineering
(also recognized in 1996)
- Rob Budde**, English
- Lloyd Campbell**, animal science
- Peter Cooney**, accounting
- Linda Diffey**, clothing and textiles
- Marcella Eaton**, environmental design and landscape architecture
- Michael Feld**, philosophy
- Bruce Ford**, botany
- Norman Halden**, geological sciences
(also recognized in 1995)
- Richard Harbeck**, education (also recognized in 1997)
- Jack Harper**, recreation studies and facility planning
- Peter Hudson**, social work
- William Kocay**, computer science
(also recognized in 1998)
- Jan Kocman**, music
- Pat McCormack-Speak**, nursing

- Barbara McMillan**, education
- Arthur Schafer**, philosophy
- David Stangeland**, accounting and finance
(also recognized in 1996 and 1997)
- George Toles**, film studies
- Lavern Vercaigne**, clinical pharmacy
(also recognized in 1998)

Awards Salute Excellence in Teaching

At the Spring 2000 convocation, four professors in English, engineering, psychology and pharmacology were recognized for their outstanding efforts in teaching.

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

Edward Shweddyk, electrical and computer engineering, earned accolades from students as one who "shares his broad knowledge and expertise with lucid word and subtle wit." He is also described as an "organized and down-to-earth instructor who always gives practical examples and makes theory relevant." He began teaching at the university in 1974.

John Rempel, English, a specialist in the literature of the Restoration Era and the 18th Century, earned praise for being "an innovative teacher who constantly re-appraises his own teaching and experiments with new techniques." Students described him as "engaging and stimulating intellectually." Rempel joined the University of Manitoba in 1970.

The Olive Beatrice Stanton Award for Excellence in Teaching

Linda Wilson, psychology, who specializes in behavioural neuroscience, received praise for her ability to present overwhelming topics in "small, easy to grasp concepts." She is also described as a professor who "spends a substantial amount of her academic time attending to her teaching responsibilities, which always involves attempts on her part to improve her methods of instruction." Wilson joined the university in 1978.

The Graduate Students' Association Award for Excellence in Graduate Teaching

Wayne Lutt, pharmacology and therapeutics, was recognized for his outstanding work with graduate students. He was commended for his encouragement of open discussion and debate and his "excellent way of making students to grow both intellectually and emotionally turning them into real scientists and not technicians." Lutt joined the department in 1984.

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.



John O'Neil,
community health sciences, directs the new
Aboriginal Health Research Centre.

Leaders in New Aboriginal Health Initiatives

The Manitoba First Nations Centre for Aboriginal Health Research, a joint project of the Assembly of Manitoba Chiefs, the Health Sciences Centre, and the university, was officially opened in the spring of 2001. The centre, which will develop new ways of conducting health research in partnership with the Aboriginal community, is funded by grants from the Assembly of Manitoba Chiefs, the Canada Foundation for Innovation and the Manitoba Innovation Fund. Centre director **John O'Neil**, community health sciences, was also one of 10 Canadians to receive a prestigious senior investigator award from the CIHR to support his internationally renowned research on Aboriginal health.

Diabetes among Aboriginal people is the focus of a five-year, \$2.5 million grant from the Canadian Institutes for Health Research, one of 10 awards made nationally under its interdisciplinary health research team program.

T. Kue Young, community health sciences, is the project leader along with **James Blanchard**, community health sciences, **Wayne Lutt**, pharmacology and therapeutics, and **Gail Marchessault**, foods and nutrition. The project also involves researchers from other universities in Canada, the U.S. and Europe.

12 Canada Research Chairs

In the past year, 12 University of Manitoba researchers were awarded prestigious Canada Research Chairs as part of a \$900 million federal government program designed to attract and retain outstanding researchers in Canada.

Recipients of Canada Research Chair awards during 2000-01 were:

- **Brian Cox**, psychiatry, chair in mood and anxiety disorders.
- **Arnold Greenberg**, Manitoba Institute of Cell Biology, chair in molecular oncology (Greenberg died shortly after the announcement of this award).
- **Brian Hasinoff**, pharmacy, chair in drug development.
- **Frank Hawthorne**, geological sciences, chair in crystallography and mineralogy.
- **Kent HayGlass**, immunology, chair in immune regulation.
- **Geoffrey Hicks**, Manitoba Institute of Cell Biology, chair in functional genomics.
- **Larry Hryshko**, physiology, chair in cardiac electrophysiology.
- **Lorrie Kirshenbaum**, physiology, chair in molecular cardiology.
- **Hélène Perreault**, chemistry, chair in bioanalytical mass spectrometry.
- **Frank Plummer**, medical microbiology, chair in resistance and susceptibility to infections.
- **Noralou Roos**, community health sciences, chair in population health research.
- **Lea Stirling**, classics, chair in Roman archaeology.

U Fact

The university received \$90.2 million in research and special projects grants in 2000-01.

The University of Manitoba is the location of four industrial research chairs, 18 research centres or institutes, and a partner with eight other centres or institutes.



Greg Naterer, received \$239,408 from the Canada Foundation for Innovation, matched by the Manitoba Innovations Fund, for laboratory facilities to further his work on predicting and preventing icing on hydro transmission lines.

Innovative Chairs Developed for “Design Engineering” and Nursing

The Faculty of Engineering received a five-year \$1 million award from the Natural Sciences and Engineering Research Council for a Chair in Design Engineering, one of only five funded by the council. The objective of the chair program is to develop “design ready” engineers and will be led by **Ron Britton**, biosystems engineering. Britton is the chair holder and associate dean (design program).

The Faculty of Nursing received \$1.7 million to create a chair to study cancer care, palliative care, and cancer prevention. This chair, funded by a joint grant from the Canadian Health Services Research Foundation and the Canadian Institutes of Health Research, is held by **Lesley Degner**, nursing. Her research into the development of evidence-based nursing practices will ensure that the latest knowledge in the field of cancer nursing can be applied for the benefit of patients and their families.

CFI Awards Give Impetus to Leading Research

University of Manitoba researchers continue to be successful in obtaining major awards from the Canada Foundation for Innovation (CFI), a national program to fund cutting-edge research and innovative researchers. These awards are matched by the Province of Manitoba through the Manitoba Innovations Fund (MIF).

In the past year, 19 University of Manitoba projects were funded: eight through the CFI Innovation Fund, and 11 through the New Opportunities Fund.

Research Infrastructure Projects Earn Innovation Fund Grants

This past year, the University of Manitoba secured \$4.4 million in funding from CFI through its Innovation Fund to establish and acquire state-of-the-art research facilities and equipment.

- \$685,748 to support systems-based field research in sustainable cropping; project leader: **Martin Entz**, plant science.
- \$615,630 to purchase an electron microprobe to characterize crystals and rare-metal minerals as well as optimizing gold recovery; project leader: **Frank Hawthorne**, geological sciences.
- \$423,854 for a laboratory for refined molecular stratification (molecular profiling) of human breast lesion for determination of cancer risk and prognosis; project leader: **Leigh Murphy**, biochemistry and medical genetics.

- \$112,200 for the development of a biological and networked database of information on the one million insect specimens in the J.B. Wallis Museum of the department of entomology; project leader: **Robert Roughley**, entomology.
- \$948,293 for expansion of the antenna laboratory to include research capability in microfabricated software adaptive antennas; project leader: **Lotfollah Shafai**, electrical and computer engineering.
- \$777,309 to establish a centre for genetic models of human disease; project leader: **Robert Shiu**, physiology.
- \$605,242 to create a centre for proteomics and mass spectrometry, a research area that explores genetic information for the precise nature of gene function and how the functions interact; project leader: **John Wilkins**, internal medicine.

New Faculty Secure New Opportunity Grants

The university was awarded \$2.19 million in funding CFI's New Opportunities awards program to establish unique research facilities for several new researchers:

- \$193,865 for a skin research facility to examine new drug delivery systems; project leader: **Heather Benson**, pharmacy.
- \$150,815 for equipment to identify how plants and microbes adapt to environmental stresses such as salt and cold, and how the organisms affect the environment; project leaders: **Pavel Dibrov**, microbiology, and **John Markham** and **Sylvie Renault**, botany.
- \$133,163 for research to develop a vaccine against sexually-transmitted diseases; project leader: **Keith Fowke**, medical microbiology.
- \$308,548 for identification of targets for prevention and treatment of breast cancer; project leaders: **Spencer Gibson**, Manitoba Institute of Cell Biology, and **Etienne Leygue**, biochemistry and medical genetics.
- \$199,925 for facilities to study innovations in agricultural tilling equipment, practices and systems; project leader: **David Lobb**, soil science.
- \$193,445 for equipment and facilities to test and analyze structures under test loads that reflect actual environmental conditions; project leader: **Meera Singh**, mechanical and industrial engineering.
- \$175,345 for a project to study and design improvements in the application of e-commerce, Internet performance and industrial scheduling; project leaders: **Michel Toulouse**, **John Anderson**, **Sylvanus Ehikioya** and **Rasit Eskicioglu**, computer science.



The world's largest recorded complete trilobite fossil was presented to the public in May 2000. Bob Elias and Graham Young, geological sciences, were part of the team that discovered the "monster bug," which, at 70 cm long, is almost six times longer than most trilobite fossils. This huge fossil was discovered on the shore of Hudson Bay near Churchill. Trilobites are long-extinct arthropods distantly related to crabs, scorpions and insects.

- \$200,000 to create a rapid prototyping laboratory for research and innovation in manufacturing; project leader: **Gary Wang**, mechanical and industrial engineering.
- \$199,617 to establish three integrated laboratories for the study of pain and its relief through rehabilitative strategies; project leader: **Anthony Wright**, medical rehabilitation.
- \$199,644 to establish a growth chamber laboratory essential for studying the development of fungal plant pathogens; project leader: **Georg Hausner**, botany.
- \$199,202 to create a molecular neuroscience imaging laboratory for research into finding ways to protect neurons from brain inflammation; project leader: **Michael Mayne**, pharmacology and therapeutics.

Synergy Awards are Examples of Industry Link

Two Manitoba research projects receiving Synergy Awards from the Natural Sciences and Engineering Research Council are dramatic examples of university-industry partnerships that capitalize on the strengths and resources of each partner.

- **Ken Standing**, physics, who directs the university's Time-of-Flight Mass Spectrometry Laboratory, and **Bill Davidson**, of MDS Sciex, combined the expertise of their laboratories to create a powerful new tool for researchers in proteomics. The result is a potential revolution in diagnosis and treatment of diseases. The partnership began in 1996 when the research staff at MDS Sciex wanted to explore the possibility of creating a powerful new instrument by combining its technology with a time-of-flight mass analyzer.
- A state-of-the-art computer relay device was developed by **Peter McLaren**, electrical and computer engineering, and **Dean Weiten**, senior engineer at APT Power Technologies, to monitor, detect and remove problems in electrical power utility systems before customers even notice a flicker. Manitoba Hydro engineers initiated the idea for the device almost 12 years ago and after successful tests Vansco Electronics Ltd. helped build the commercial prototype. In 1998 this resulted in the creation of APT Power Technologies as a separate division to manufacture the device, which has since has grown from five to 20 employees, 10 of whom are University of Manitoba engineering graduates.

University Industry Liaison Office Brings Innovation to Market

The University Industry Liaison Office (UILO) is responsible for providing advice on intellectual property, including patents and copyrights, as well as promoting commercialization opportunities for university developed technologies. In 2000-01, royalty revenues from 53 licenses and options totaled \$1.8 million. The University of Manitoba holds more than 70 patents for technology.

In 2000-01 the University of Manitoba was awarded the following patents:

- **Nasreen Khalil**, formerly of internal medicine and CancerCare Manitoba: U.S. patent for the use of protein fragments in the treatment of inflammatory and fibrotic diseases (such as cirrhosis of the liver, rheumatoid arthritis, and Crohn's disease).
- **Lynn Batten**, formerly of mathematics: U.S. patent for a method to establishing secure, digitally signed communications using an encryption key based on a blocking set cryptosystem.
- **Alec Sehon, Judith Kapp, Glen Lang and Tong Ke**, all of immunology: U.S. patent for a method of preventing unwanted immune responses during gene therapy treatment.
- **Kenneth Dolynchuk and John Bowness**, surgery: Canadian patent for an ointment to inhibit the formation of scar tissue and to promote the healing of mature scar tissue; the ointment has applications in the treatment of surgical incisions, injuries or burns.

Large Grants Boost Spinal Cord Research

The Spinal Cord Research Centre acquired more than \$6 million in research grants from Canadian and American funders. It received \$757,405 per year for five years from the Canadian Institutes of Health Research, and a further \$2.3 million from the National Institutes of Health in the U.S. The research centre is headed by **Larry Jordan**, physiology, and includes researchers **David McRea, Susan Shefchyk, Brian Schmidt** and **Robert Brownstone**. The centre's research projects focuses on how the spinal cord functions normally and after injury with a view to finding ways of restoring lost functions.



Rachael Scarth, plant science, received grants totaling \$446,996 from the Agri-Food Research and Development Initiative, the Canola Council of Canada, and Manitoba Canola Growers for the development of low saturate canola *Brassica napus*. Canola is a multi-billion dollar industry.

Flood Studies Project to Focus on Red River

The memories of the floods of 1997 and 1950 cast such a long shadow in Winnipeg that it is appropriate that the University of Manitoba was selected to lead a program to explore how governments and the public make decisions related to flood management. The project is directed by **John Sinclair**, Natural Resources Institute. Partners include all three levels of government, researchers at the universities of Brandon, Lakehead, Simon Fraser, and Western Ontario, and four community organizations: the Water Resources Branch of Manitoba Conservation, the Town of Emerson and the Rural Municipalities of Morris and Ritchot. The \$600,000 three-year grant came from the Social Sciences and Humanities Research Council's Community-University Research Alliance program.

Community Health Sciences a Big Winner in New National Funding Program

The Canadian Institutes of Health Research (CIHR) and the Social Sciences and Humanities Research Council (SSHRC) made grants totaling \$5,604,635 to three University of Manitoba research projects, all in the department of community health sciences, under its newly developed joint Community Alliances for Health Research Program. No other university received more awards under this major new funding initiative.

- **Patricia Martens** and **Charlyn Black** were awarded \$2.2 million for a five-year project to examine collaborative research by the Manitoba Centre for Health Policy and Evaluation, rural and northern regional health authorities, and Manitoba Health.
- **John O'Neil** received a four-year grant of \$1.4 million for an examination of factors on the development of a First Nations-controlled health-care system in Manitoba. The project will include co-investigators from arts, medicine and nursing.
- **Annalee Yassi**, along with co-researchers **Robert Tate**, community health sciences, and **Juliette Cooper**, medical rehabilitation, received a five-year grant of \$1.9 million for a project making health-care a healthier place to work.

A major component of all three projects will be links with community health-care agencies and organizations in the community.

U of M a Partner in New National Child and Youth Centre

The Prairie Centre of Excellence for Child and Youth Centre Communities was established in 2000 as one of five national centres of excellence to study children's well-being that was initiated by the federal government. The Social Planning Council of Winnipeg, in partnership with the university's Faculty of Social Work, the Manitoba government and the Aboriginal Health and Wellness Centre will oversee the centre's activities which focus on examining how communities support children and families. Funding ranges from \$500,000 to \$700,000 per year over the five years.

U of M Researchers Continue to Lead the Way in HIV/AIDS Research

Stephen Moses, medical microbiology, received \$2.4 million from the Canadian International Development Agency (CIDA) for an AIDS prevention and control project in India. Three of six grants from the Canadian Institutes for Health Research/Health Canada HIV/AIDS research program were also awarded to University of Manitoba researchers. Grants totaling \$1.6 million were awarded to **Frank Plummer**, medical microbiology, who received two of these awards, one for a project in immune mechanisms and the other for research into HIV/AIDS genetics. The third grant went to **Keith Fowke**, medical microbiology, for a project into HIV resistance.

Notable Research Funding

In 2000-01, the University of Manitoba received \$90.2 million in research and special project income. Some of the notable research grants include:

Members of the U of M's Particle and Nuclear Physics Group, **Charles Davies**, adjunct professor, **James Birchall**, **Willie Falk**, **Shelley Page**, **Willem van Oers**, physics and astronomy, received a three-year major equipment grant of \$280,000 from the Natural Sciences and Engineering Council of Canada (NSERC) to construct a portion of a large, eight-sector aerogel Cherenkov detector. The detector will be used in zero gravity experiments in collaboration with the Tri-Universities Meson Facility (TRIUMF) in Vancouver, B.C. and the Thomas Jefferson National Accelerator Facility.



David Burton, soil science, was awarded \$183,500 over three years from the joint partnership grant program of Agriculture and Agri-Food Canada and NSERC for research on reducing nitrous oxide emissions through fertilizer management technologies. An additional \$97,500 is coming from the Canadian Fertilizer Institute. Burton received another three-year grant of \$200,000 from Agriculture and Agri-Food Canada for research into soil nutrient management practices for the reduction of greenhouse gas emissions.

Elizabeth Troutt and **Laura Brown**, economics, received a two-year grant of \$59,780 from SSHRC's non-profit section in Canada special joint funding initiative with the Kahanoff Foundation for a project to explore the effects of funding mechanisms on the non-profit sector.

Robert Hoppa, anthropology, received \$75,000 from SSHRC, for research into the historical interactions of environment, behaviour, and mortality among the western James Bay Cree.

Jan Oleszkiewicz, civil and geological engineering, will use a three-year grant of \$139,300 from NSERC's strategic grants program for research into decreasing the cost of upgrading wastewater treatment plants for nitrogen removal.

Gordon Goldsborough, botany, received a two-year grant of \$171,200 from Manitoba Hydro to conduct a detailed inventory of coastal wetlands of Lakes Winnipeg, Manitoba, and Winnipegosis using remotely sensed data and to examine the responses of a coastal wetland to changes in fish access and water quality.

Carla Taylor, foods and nutrition, along with **Peter Zahradka**, physiology, received a two-year grant of \$45,000 from NSERC, with matching funds from Dairy Farmers of Canada, for a project on insulin action, obesity and dietary conjugated linoleic acid.

Rosemary Mills, family studies, was awarded a \$60,090 contract from Health Canada to investigate community social capital and the psychosocial adjustment and health of urban and non-urban children in Canada.

Christina Sue-Chan, business administration, received \$45,794 from SSHRC, to explore human resource management issues in team building, coaching and individual behaviour.

John Doering, civil and geological engineering, was awarded a three-year grant of \$122,438 from NSERC for a collaborative research and development project to study frazil and anchor ice processes. Manitoba Hydro is providing matching funds.

James Davie and **Ethan Emberly**, both of biochemistry and medical genetics, each received separate three-year research contracts from the U.S. Army for research into breast cancer. Davie received \$259,625 to examine the isolation of estrogen-responsive genes in human breast cancer cells. Emberly received \$132,970 for a study into markers of increased risk in pre-invasive breast cancer.

Rick Baydack, Natural Resources Institute, will use a three-year \$195,000 grant awarded jointly by NSERC, SSHRC, and the Canadian Forest Service to support a project called an ecosite-based decision support system for sustainable forest management. An additional gift-in-kind of \$102,000 is coming from Manitoba Model Forest Inc. and Manitoba Hydro.

Judy Chipperfield, Health, Leisure and Human Performance Research Institute, received a five-year \$520,000 grant from CIHR to study how older people handle changes in their health and social interactions as they continue to age.

Mike Butler, microbiology, will be using a four-year grant of \$375,000 from NSERC, with matching funds from the Cangene Corporation, for a project on cell culture process development for the production of consistent biological products.

P.N. Shivakumar, mathematics, and co-investigators **James Peters**, electrical and computer engineering, and **Kiril Kopotun**, mathematics, received a two-year grant of \$91,000 from Manitoba Hydro for a project to develop mathematical formulas needed for the software to operate robots used in the de-icing of power lines.

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.

Israel Asper Name Synonymous with Giving

Israel Asper (BA/53, LLB/57, LLM/64, LLD/98, OC, OM), executive chairman of CanWest Global Communications Corp., has once again demonstrated his support for the University of Manitoba with a personal commitment of \$10 million in November, 2000 to kick off a fund-raising campaign for the I.H. Asper School of Business.

The I.H. Asper School of Business Endowment campaign has an overall goal of \$30 million, and is part of the university's major capital campaign. Asper has challenged the School to raise a matching \$10 million, after which he has pledged to raise the final \$10 million.

In May, 2000 the Faculty of Management was officially named the I.H. Asper School of Business/Faculty of Management. The naming of an academic unit in recognition of a distinguished individual is a rare and significant honour, unprecedented at the University of Manitoba. Only five other business schools in Canada have honoured individuals in this way.

U Fact

The university received \$23,390,613 million in gifts in 2000, an increase of 46 per cent over 1999.

University to Receive More Than \$50 Million Facelift

With Premier Gary Doer's announcement of \$50 million in provincial support for the University of Manitoba's physical infrastructure, students and staff can look forward to working and learning in a renewed environment.

The announcement—made on November 1, 2000—is the largest provincial post-secondary capital investment in over 20 years.

The money will come in the form of \$8 million per year in new funding, plus a guarantee of at least \$2 million per year out of the existing university capital base.

The university has pledged to match the government's gift through a private donor campaign, which will also include support for students and researchers and strategic academic initiatives throughout the university.

Chair in Telecommunications Created Through Donation by Alumnus

A \$1 million donation by distinguished graduate David Graves (BScME/83) has resulted in the creation of the Centara Chair in Telecommunications Research in the Faculty of Engineering.

Designed to be the hub of a world-class telecommunications research program at the University of Manitoba, this new research chair will allow the faculty to hire an internationally recognized leader in the telecommunications area who will spearhead the development of a centre of excellence with close ties to industry.



David Graves
Centara Corporation;
New chair in telecommunications research.



Each year the University of Manitoba honours support and academic staff who have been notably active in outreach activities throughout the year. Yvonne Pompana, social work, received an Outreach award for her leadership in linking the faculty with the profession.

Graves is chairman and CEO of Centara Corporation and chair of the board of the university's SMARTpark.

30th Anniversary of Northern Medical Unit Celebrated

The J.A. Hildes Northern Medical Unit (NMU) of the University of Manitoba celebrated its 30th anniversary on December 2, 2000 at the Bannatyne Campus. Events for the day included an accredited symposium on Aboriginal health, a reception and an anniversary dinner. The symposium, which was open to the public, had students and clinicians present topics on issues in the North like suicide, palliative care, consultant services, infectious diseases and genetics.

The keynote speaker for the evening was **Ovide Mercredi**, political advisor to the National Chief, Assembly of First Nations and graduate of the University of Manitoba.

Proceeds from the evening were directed to the in establishment of the J.A. Hildes Bursary, which will enhance education opportunities in the health professions for students of Aboriginal ancestry.

University Honours Entrepreneurs with International Award

Li Ka-shing of Hong Kong, one of the world's most successful businessmen and entrepreneurs, was the recipient of the 2000 International Distinguished Entrepreneur Award (IDEA) from the University of Manitoba. Li is chairman of the Cheung Kong Group of Companies, which have interests in such diverse areas as property development and financial management. Based in Hong Kong, the group is active in 26 countries with a market capitalization of HK \$700 billion.

Edward S. "Ted" Rogers, President and Chief Executive Officer of Rogers Communications Inc., was the 2001 recipient of the IDEA award. A true pioneer in the communications industry, Rogers has been involved at the start-up stage with numerous ventures in broadcasting, cable television and telecommunications, championing service and innovative engineering throughout.

Established in 1983, the IDEA award 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.

University of Manitoba has New Logo

The university's new graphic identity developed through the University of Manitoba's

Department of Public Affairs can now be widely seen on university material. The logo retains the university's distinct brown and gold colours, and pays tribute to the university's role as the premier academic institution in Manitoba.



Chancellor Bids Farewell to the University of Manitoba

Arthur Mauro (BA/49, LLB/53, LLM/56, LLD/87) said goodbye to the University of Manitoba after the end of his third and final term as Chancellor. As an outstanding volunteer and philanthropist, Mauro has received many honours for his contributions including the Order of Canada, Order of the Buffalo Hunt, the University of Manitoba Distinguished Service Award, Knight of St. Gregory by Pope Paul VI, National Human Relations Award of the Canadian Council of Christians and Jews, and Honorary Colonel to the Canadian Forces School of Aerospace Studies. He has also received honorary degrees from the University of Manitoba and Lakehead University.

Bill Norrie to Take Office as 12th Chancellor

William (Bill) Norrie (BA/50, LLB/55, LLD/93) was elected 12th Chancellor by the University of Manitoba for a three-year term, effective June 1, 2001. Norrie, who has distinguished himself in public service, most notably as Mayor of Winnipeg from 1979 to 1992, succeeds Arthur Mauro, who served as Chancellor from 1992 to 2001. The Chancellor confers all degrees and diplomas, and plays a lead role in advancing the university. Among Norrie's many honours, awards and appointments are the Order of Canada, the Order of Manitoba, and honorary degrees from the University of Manitoba and the University of Winnipeg.

Opening of Icelandic Collection Celebrates Rich History

The official opening of the Icelandic Collection and Iceland Reading Room in the Elizabeth Dafoe Library took place October 20, 2000 with hundreds of guests in attendance to celebrate the occasion, including Iceland's prime minister David Oddsson and Manitoba premier Gary Doer.

Construction was made possible through the VIP (Valuing Icelandic Presence) Millennium Campaign,

which raised \$1.5 million, including an unprecedented \$1 million gift from Iceland. The funds raised also support teaching and scholarship in the Icelandic Department.

A travelling exhibition entitled *Living and Reliving the Icelandic Sagas* was also unveiled at the event through collaboration with the National and University Library of Iceland, the Library of Congress, the Fiske Icelandic Collection of the Cornell University Library and the Icelandic Collection of the University of Manitoba Libraries. The exhibition includes original and replicated manuscripts of significant historical and cultural value, much of it never before seen outside of Iceland.

The support from the people of Iceland follows renewed academic and cultural ties coinciding in 2000 with the 125th anniversary of the arrival of Icelanders in Manitoba and the 1000th anniversary of Iceland's discovery of North America.



Outreach Award Recipients

Each year the University of Manitoba honours support and academic staff who have been notably active in outreach activities throughout the year.

Yvonne Pompana, social work, was honoured for linking the University of Manitoba to key communities and alumni through her leadership as co-chairperson of “Sharing Our Perspectives, Developing Our Path” the first ever conference in Manitoba designed by and for Aboriginal social workers, and as co-chairperson of the Alumni Committee, Faculty of Social Work for Homecoming 2000—a most successful two-day program, which helped develop strong ties to alumni and promoted the profession in the province of Manitoba.

Jila Ghomeshi, arts, was honoured for her very effective, entertaining way of communicating about the field

of linguistics on radio and in newspapers. Her columns on language and grammar, which have appeared in The Winnipeg Free Press and The Globe and Mail, make esoteric subjects highly accessible to readers. She now has a regular spot on CBC Manitoba's Information Radio to talk about language.

Other Outreach Award recipients were:

Chris Chinien, education; **Martin Entz**, agricultural and food sciences; **Leon Feduniw**, architecture; **Ian Macdonald**, architecture; **David Arnason**, arts; **Susan Prentice**, arts; **Jean Wilson**, arts; **Bruce Miller**, continuing education; **Laura MacDonald**, dentistry; **Dianne Boulay**, information services and technology; **Pamela Hawranik**, nursing; **Roberta Koscielny**, office of research services; **Gordon Giesbrecht**, physical education and recreation studies; **Esther Blum**, social work; **Lynn Smith**, student affairs; **Colleen Flather**, science; **Barbara L. Sherriff**, science.

University of Manitoba staff contribute historical expertise to television programs

Gerald Friesen, history, was one of seven main historical advisors for CBC's Canada: A People's History, an epic, 17-episode documentary that spans Canada's pre-history to the present day. Friesen reviewed scripts and video footage, and helped plan the second season of the program. **Harry Duckworth**, chemistry, and **Jack Bumsted**, history, participated as historical consultants for Episode 6, which includes stories of fur trade and the Red River settlement.

Bumsted also lent his knowledge of prairie development to History Television's Pioneer Quest, a re-creation of a year in the life of prairie settlers in the 1870s. As a historical advisor for the series, he wrote the original scenarios to describe a year in the life of a pioneer family and answered questions of historical appropriateness that arose as the series progressed.

U of M and Merck Frosst at Forefront of Arthritis Research

The University of Manitoba can now boast being at the forefront of international arthritis research thanks to a contribution of \$750,000 by Merck Frosst to create an endowed Chair in Rheumatology. The money will help to create the first-ever major Canadian study aimed at curbing the effects of the disease through early identification and intervention. The team of researchers will be headed by internationally renowned researcher, **Hani El-Gabalawy**, internal medicine.

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.

a **lison Lynch** (BN/84) 'by extension' shared in the Nobel Peace Prize, which was awarded to the philanthropic group "Médecins Sans Frontières" (Doctors without Borders) (MSF) in 2000. When the award was announced, Lynch was volunteering for the MSF in Sudan where she was working in a hospital located between the north and south boundaries. At the time, the area was being fought over by government troops and the rebels of the south, which put Lynch in a number of very dangerous situations. Other volunteer work for the MSF found Lynch working in Angola, the Amazon and Somalia.

Erika Bockstael (BRS/96, MSc/00) was the recipient of the prestigious World Leisure and Recreation Associations' Future Scholar Award. The award was presented to her at the National Parks and Recreation Association Conference held in October 2000.

David Friesen (BA/69), chairman and CEO of Friesens Corp., was named the Prairie Entrepreneur of the Year for manufacturing. Friesen's printing company, which printed seven million copies of the Harry Potter book *Goblet of Fire*, expects sales this year of about \$100 million. Friesens Corp., Altona's largest employer, provides 500 jobs in its four manufacturing plants.

Wayne Digby (BSA/68) has been recognized for linking Brandon to the world. He won the fourth annual Global Citizenship Award from the Marquis Project, an international development group. His accomplishments include two years of service with his wife in Canadian University Service Overseas (CUSO). After living in Botswana during the 1970s he opened a CUSO office and set up an aid organization called People to People. Digby also chaired a business-training program linking youth in Brandon and Tanzania.

Murray Sinclair (LLB/79) was appointed to the Manitoba Court of Queen's Bench. Sinclair gained national recognition through his work on the Aboriginal Justice Inquiry and an inquest into 12 baby deaths at Health Sciences Centre in 1994. He was appointed associate chief judge of the Manitoba provincial court in 1988, and soon after, co-commissioner to the Public Inquiry into the Administration of Justice and Aboriginal Peoples of Manitoba.

Carmen Nembhardt (BA/57, BEd/70, MSW/72) was appointed the new honorary consul for Jamaica in Winnipeg. Over the years, Nembhardt has been actively involved in the community in both African-Caribbean heritage organizations and non-ethnic organizations. Most recently, Nembhardt was on the board of directors for the Women's Enterprise Centre.

Colin Robertson (BA/76) was appointed Canadian consul-general in Los Angeles by Prime Minister Jean Chrétien. As consul-general, Robertson promotes Canada-United States relations, specifically Canadian business and culture to the United States. Robertson's career highlights include working at the United Nations promoting humanitarian issues, consul-general in Hong Kong from 1987-92, and playing a key role in putting together the Canada-US Free Trade Agreement and the North American Free Trade Agreement.

U Fact
149,341 students have graduated from the University of Manitoba since 1877. Of that number, 71,048 (or 47.6 per cent) now live in Manitoba.



Many English grads dream of landing a prestigious job at a publishing company. Two years ago, that dream came true for Balmoral Hall teacher Lindy Anne Ledohowski (BA(Hons)/98) when she was hired as senior submissions editor of romance novels for Winnipeg-based Ponder Publishing. An aspiring writer herself, Ledohowski wrote her own first novel at the age of 15. Ledohowski has also tried her hand at short fiction and, most recently, poetry, after attending a Sage Hill Poetry Writing Retreat with Dennis Cooley, an instructor at the University of Manitoba.

Laird Rankin (BA/62, BComm/64) received a Meritorious Service Cross (civil division) awarded by the Governor General of Canada. The award recognizes a recipient's individualism in their field. As the executive director of Canada's National History Society, Rankin was deeply involved in the 1996 creation and implementation of the Governor General's Award for Excellence in Teaching Canadian History.

Guy L. Roy (BALatPh/60, CertEd/67, BEd/71, MEd/83), assistant deputy minister, Bureau de l'éducation française, was presented the prestigious Médaille du Rayonnement culturel for his outstanding contribution to French language education in Manitoba, and in Canada in recognition of his significant contributions toward the promotion of the French language and culture in Canada. The Médaille du Rayonnement culturel is awarded by La Renaissance française under the patronage of the president of the French republic, as well as the ministers of External Affairs, Defence, Education and the Interior of the Government of France.

Henry Friesen (MD/58, BScMed/58, DSc/98) was selected as one of the Laureates for the Canadian Hall of Fame, and for the second time, a recipient of the Gairdner Foundation Wightman Award. Friesen was honoured for his leadership in Canadian medical research and the establishment of the Canadian Institutes of Health Research.

Entomologist **Sam Loschiavo** (BSc/46, MSc/50, PhD/64) and physician **Ed Hudson** (MD/41) have been named to the Order of Canada. Loschiavo, who was a founder of the Folklorama Heritage Festival, was named for his contributions to science and work as a community volunteer. Hudson was named for his more than 50 years of delivering medical care to his patients in rural Manitoba.

Gary Filmon (BScCE/64, MSc/67) was named to the Order of Manitoba, which recognizes Manitobans who have demonstrated excellence and achievement leading to outstanding benefits to the social, cultural or economic well being of Manitoba and its residents. Filmon was named for his contributions to the political and economic development of Manitoba and his dedication to community service.

D'Arcy Jones (BEnvD/95 and MArch/99) made Metropolitan Home Magazine's annual "Home of the Year" list with his design of a stylish 2,900 sq. ft. residence located high in the hills above Kamloops, BC. The



Laird Rankin, received a Meritorious Service Cross (civil division).

house was featured in the January/February 2001 issue of the popular American home-decorating magazine. Ten finalists were picked from approximately 500 entries.

David Barnes (BSc/74) and **Scott Radley** (BA Adv/85) were honoured with the 2000-2001 Prime Minister's Awards for Teaching Excellence. Fifteen teachers across Canada received national recognition from Prime Minister Jean Chrétien. Barnes, of Neelin High School in Brandon, teaches EcoOdyssey, a semester-long integrated course with credits in English, physical education, geography, environmental studies and biology. Under his tutelage, students dive into history, community service and environmental studies, helping them achieve academically and personally. Radley, of École Powerview School in Beausejour, teaches mathematics and computer science. His magnetic teaching-style has inspired school-wide interest and participation in technology and mathematics.

Marjorie Blankstein (BA/50) was the recipient of the 2000 Outstanding Volunteer Fund Raiser award. Blankstein was honoured for her commitment to the Jewish, Winnipeg and international communities. Marjorie has provided leadership to many organizations over the years, including MATCH International, LEAF, Women, Canadian Jewish Congress, Winnipeg Symphony Orchestra, St. Boniface Hospital and the United Way.

administration

U Fact

The university owns buildings and equipment valued in excess of \$775 million. Other assets include 10.3 km of roads, 6,300 parking spaces and residence rooms for 950 students.

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



Campus 2000 Conference organizers:

Back row, left to right: Harminder Dhanjal, Janice Sission.

Middle row, left to right: Sandi Herwig, Debbie Brown (co-chair), Trevor Schultz, Beth Clark (co-chair), Brent Clark, Caron Bueckert.

Front, left to right: Karen Kristjanson, Denise Reitsma.

University Hosts Support Staff Conference

more than 100 university and college middle managers from across Canada were in attendance for Campus 2000, the 4th annual conference of the Canadian Administrative, Management and Professional University Staff hosted by the University of Manitoba.

The conference focused on the theme of accountability in education, and featured keynote speaker, Ann Dowsett Johnson, editor of Maclean's Guide to Canadian Universities. In addition to professional development and plenary sessions, the conference presented an opportunity for support staff from across the country to connect with others who face similar challenges.

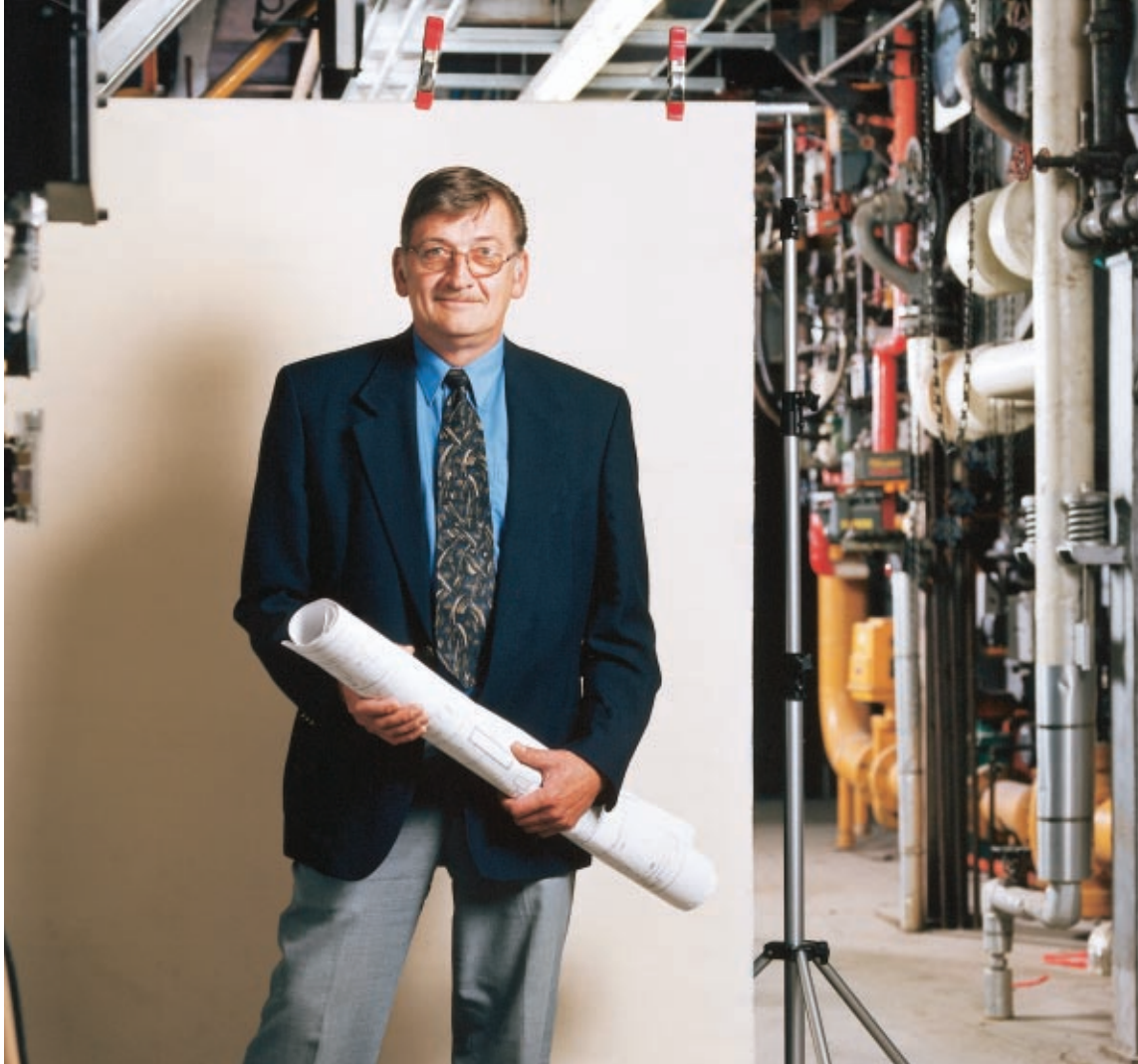
The Campus Master Plan

The University of Manitoba has undertaken a campus master plan project to take inventory of existing physical resources and plan for their future development. A Campus Master Plan development office, led by **Eduard Epp**, architecture, was mandated to examine existing built form and landscape designs and make recommendations through a comprehensive report on how both the physical environment and the planning process could be enhanced in the future.

The final document, entitled A Networked Campus, will encompass urban structure and form, landscape structure and form, built structure and form, land use and program, movement and access, way-finding and signage, lighting, place and administration of the plan.

Increase in Enrolment Largest in Almost 10 Years

Enrolment at the University of Manitoba increased sharply for the 2000-01 academic year, continuing a two-year upward trend. Classes opened with a total of 21,697 students, an increase of 3.4 per cent (716 students) over last year's first-day enrolment. The large numbers are attributed mainly to increases in new admissions to University 1, more students in the Faculties of Nursing, Arts and Science, and more international students.



Brian Rivers,
director, physical
plant; international
award for reducing
energy consumption.

First year enrolment in University 1 was up 7.3 per cent, undergraduate enrolment was up 4.2 per cent, and enrolment in the Faculty of Arts and the Faculty of Science was up 3.2 per cent and 3.3 per cent respectively. The number of new international students was up three per cent. The Faculty of Nursing experienced the greatest enrolment increase, with 36 per cent more students.

University Receives Award for Energy Conservation

An aggressive program to reduce energy consumption at the University of Manitoba not only succeeded in meeting its goals, but also earned an award sponsored by the Energy User News, an international magazine for building managers and engineers.

The university's \$13 million performance-based energy reduction program through MCW Energy Reduction Services is ahead of its target in realizing at least \$1.9 million in annual utility cost savings.

In the submission to the awards competition, MCW Energy Reduction reported reductions of 19 per cent in electrical energy; 14 per cent in steam energy; 21 per cent in chilled water for summer air conditioning; 8.7 per cent in natural gas; and 28 per cent in water.

Physical Plant Offers Disabled Youth Opportunity

Physical plant's caretaking services has teamed up with Shaftesbury High School in Winnipeg to offer mentally challenged youth an opportunity to gain work experience. Approximately a dozen students have come through the physical plant department in the past year to gain experience in the workplace.

Construction Projects Change Face of Campus

A wide range of projects made this year one of the busiest for new construction and renovation. The most visible new building projects on the Fort Garry campus are the grain storage research lab, the 'chiller' plant addition to the powerhouse, and the Centre for Architecture and Structural Technology (CAST) building for Architecture. Additional projects included the roof and deck replacement between University Centre and the Engineering building and sidewalk paving along Chancellor Matheson Road. At the Bannatyne Campus, research labs are being completed on the fourth level of Brodie Centre.

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Colleen Bready



Romel Dhalla
B.A.



Steven Fletcher
B.Sc.G.E.

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Digvir S. Jayas, B.Tech.(A.E.), M.Sc., Ph.D., P.Ag., P.Eng.

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Faculty of Architecture

Faculty of Arts

Faculty of Dentistry

Faculty of Education

Faculty of Engineering

Faculty of Graduate Studies

Faculty of Human Ecology

Faculty of Law

Faculty of Management

Faculty of Medicine

Faculty of Nursing

Faculty of Pharmacy

Faculty of Physical Education & Recreation Studies

Faculty of Science

Faculty of Social Work

School of Art

School of Dental Hygiene

School of Medical Rehabilitation

School of Music

Continuing Education Division

St. Andrew's College, Principal

Collège universitaire de Saint-Boniface, Recteur

St. John's College, Warden

St. Paul's College, Rector

University College, Provost

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Roman Bozyk, B.A., B.D., M.Div., M.A.(Th.).

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Robert Bright (Acting), B.A., M.A., Ph.D.

Financial Report

U Fact

Of the university's total operating budget, 58.6 per cent is funded by the Manitoba government; 22.4 per cent from tuition revenue; 11.4 per cent from income on investments, cost recoveries and other sources; 7.6 per cent from ancillary enterprises.

An Overview of the 2000-01 Fiscal Year

The financial statements in this Annual Report are summaries of the actual financial statements in the 2001 Annual Financial Report, which are audited by the Provincial Auditor. The report can be found online at www.umanitoba.ca/admin/financial_services.

Growth in student numbers of approximately 4% was experienced this year, the third consecutive year of growth or stable student numbers. Demographic projections for the next few years would indicate a continuation of enrolment growth.

During the year, the university completed construction of the infrastructure related to SMARTpark, a research park on the Fort Garry campus that promotes research and development at the university in partnership with government and industry.

The university Board approved new investment policies and procedures relating to the investment of trust and endowment funds, occasioned by changes to the University of Manitoba Act in 1999. The revised act now permits investment as a "prudent person" as opposed to the outdated and overly restrictive list of eligible investments that existed previously.

The university has embarked on a multi-year program of systems renewal for all major administrative computing systems i.e. student information, financial management and human resources.

The Province announced during 2000-01 that an incremental allocation of \$40 million over five years would be provided to the university to help address long outstanding deferred maintenance of the physical plant. This \$40 million, plus a commitment that at least \$2 million per year of existing funding would continue to be allocated for the same purpose, will permit the university to fund its multi-year plan of capital improvement projects. In addition, these funds will be augmented substantially through private donations, allowing the university to lever this \$50 million capital reinvestment to undertake significantly higher capital expenditures over the next five years.

Effectively managing a budget of over \$300 million, the University of Manitoba is fully accountable to the province's taxpayers and is audited annually by the provincial auditor.



General Operations

The university's total operating revenues increased by \$15.4 million or by 5.4% in 2000-01, as a result of a number of factors. Total operating grants from COPSE increased by 7.4% or by \$12.3 million. This increase is attributed primarily to a general operating grant increase of 2.8%, an additional operating grant increase equivalent to 2.1% of tuition fees to compensate for the Provincial request that tuition fees be held constant at the 1999-2000 levels, and additional funding for the 10% tuition fee rebate. Student fees decreased by \$1.1 million, in actual fact a combination of increased fee revenues from increased enrolment offset by the 10% tuition fee rebate reduction (\$5.8 million) that has been included with grant revenues from COPSE.

General operating expenses actually increased by approximately \$11.5 million over 2000-01. However, this increase was offset substantially by \$9.1 million in property tax adjustment credits (\$6.0 million refund on tax appeals and a \$3.1 million adjustment on previous accruals) for a net increase in general operating expenses of \$2.4 million. Salaries, wages and benefits increased by \$9.5 million or 5.0% due to contractual salary and benefit increases. Utility costs increased by \$1.2 million, primarily as a result of gas rate increases.

The Province requires that the university pay property taxes directly, as opposed to the more common grants-in-lieu of taxes found in other provincial jurisdictions. The responsibility of paying those expenses was transferred to the university in 1996, and the university has been urging a change to this policy ever since. The original grant of \$13.4 million provided five years ago has not been increased with reference to property tax increases, especially those related to new buildings or building improvements. Operating funds must now be redirected to pay property taxes instead of supporting academic programs. We will continue to make the case that the responsibility for the payment of property taxes should be re-assumed by the Province, or that a special grant adjustment be provided to cover the increasing costs of property taxes.

Ancillary enterprises are budgeted to operate on a break-even basis, in keeping with the university's desire to provide services on campus at an affordable price to students, staff and visitors, yet cover the costs of providing those services. Ancillary enterprises, which include the book store, parking services, residences, the pharmacy and post office, ended the year with an excess of revenue over expense of \$0.35 million. Transfers to the Capital Asset Fund of \$0.8 million were made to fund principal and interest repayments on the parkade loan and for equipment purchases. Total ancillary revenues increased by \$2.0 million or 8.9% over 1999-2000, while expenses increased by \$0.9 million or 4.3%, both primarily related to changes in book store revenues and expenses.

Expense by Function (in thousands of dollars) March 31, 2001

Instruction	\$ 183,083	63.3 %
Physical Plant	29,002	10.1 %
Ancillary Enterprises	23,239	8.1 %
Property Tax	6,635	2.0 %
Administration	11,887	4.1 %
Student Services	11,457	4.0 %
Libraries	15,762	5.5 %
Other	7,146	2.5 %
Scholarships, bursaries, prizes & awards	1,023	0.4 %
	\$ 289,234	100 %

Revenue by Source (in thousands of dollars) March 31, 2001

Council on Post-Secondary Education Grants	\$ 178,313	59.2 %
Other Province of Manitoba	6,176	2.1 %
Tuition and related fees	67,804	22.5 %
Ancillary enterprises	24,714	8.2 %
Sales of goods & services	19,920	6.6 %
Investment and other revenues	4,223	1.4 %
	\$ 301,150	100 %

University of Manitoba
Comparative Statement of General Operating Fund
For the Years ended March 31 (In thousands of dollars)

	2001	2000
Revenue:		
Tuition and related fees	\$ 67,804	\$ 68,872
Investment income	3,187	1,675
Council on Post-Secondary Education grants	178,313	166,056
Other Province of Manitoba	6,176	5,989
Ancillary Enterprises	24,714	22,678
Sales of goods and services	19,920	18,178
Other	1,036	2,335
	<u>301,150</u>	<u>285,783</u>
Expense:		
Academic & libraries	188,229	176,310
Administration	11,577	11,007
General	7,038	5,780
Plant maintenance	26,536	26,568
Property taxes	6,635	15,729
Student services	11,308	10,657
Scholarships, bursaries & prizes	1,023	907
Ancillary Enterprises	22,446	21,519
	<u>274,792</u>	<u>268,477</u>
Net operating revenue	26,358	17,306
Appropriated - specific provisions	(17,713)	(7,806)
Transfers to capital asset fund	(13,311)	(12,618)
Net transfers from other funds	4,964	3,188
	<u>\$ 298</u>	<u>\$ 70</u>

At March 31, 2000, the General Operating Fund had a fund balance of \$307. This, combined with the current year's surplus of \$298, results in a General Operating Fund balance of \$605 as at March 31, 2001.

University of Manitoba
Comparative Statement of Research and Special Fund
For the Years ended March 31 (In thousands of dollars)

	2001	2000
Revenue:		
Government of Canada	\$ 40,064	\$ 33,093
Province of Manitoba	19,724	16,498
Business and industry	30,408	25,689
	<u>90,196</u>	<u>75,280</u>
Scholarships, bursaries & prizes	3,792	3,804
	<u>93,988</u>	<u>79,084</u>
Expense:		
Academic research	66,966	65,216
Libraries	77	100
Administration, general and plant maintenance	1,903	1,380
Student services	490	536
Scholarships, bursaries & prizes	4,072	3,909
	<u>73,508</u>	<u>71,141</u>
Net research revenue	20,480	7,943
Net transfers to general operating fund	(1,670)	(1,741)
Transfers to capital asset fund	(5,295)	(5,260)
Transfers from trust & endowment funds	3,252	1,737
	<u>\$ 16,767</u>	<u>\$ 2,679</u>

At March 31, 2000, the Research and Special Fund had a fund balance of \$36,908. This, combined with the current year's surplus of \$16,767 results in a Research and Special Fund balance of \$53,675 as at March 31, 2001.

University of Manitoba
Comparative Statement of Capital Asset Fund
For the Years ended March 31 (In thousands of dollars)

	2001	2000
Revenue:		
Contributions, donations, non-government grants	\$ 4,017	\$ 10,664
Council on Post-Secondary Education grants	16,558	12,916
Other Province of Manitoba	6,367	8,432
Government of Canada	8,102	7,075
Investment income	724	944
	<u>35,768</u>	<u>40,031</u>
Expense:		
Amortization of capital assets	21,093	19,676
Interest on bank loan, debentures, capital advances and capital lease obligations	1,258	1,434
	<u>22,351</u>	<u>21,110</u>
Net capital revenue (expense)	13,417	18,921
Transfers from other funds	19,099	22,671
	<u>\$ 32,516</u>	<u>\$ 41,592</u>

At March 31, 2000, the Capital Asset Fund had a fund balance of \$255,498. This, combined with the current year's surplus of \$32,516, results in a Capital Asset Fund balance of \$288,014 as at March 31, 2001.

University of Manitoba
Comparative Statement of Staff Benefits Fund
For the Years ended March 31 (In thousands of dollars)

	2001	2000
Revenue:		
Employee contributions	\$ 881	\$ 763
Investment income	2,917	2,944
	<u>3,798</u>	<u>3,707</u>
Expense:		
Experience Loss	519	14
Administration and management fees	261	220
Disability benefit payments	1,458	1,392
	<u>2,238</u>	<u>1,626</u>
Net staff benefits revenue	1,560	2,081
Net transfer to general operating fund	(505)	(490)
Net transfer to other funds	(2,678)	(100)
	<u>\$ (1,623)</u>	<u>\$ 1,491</u>

At March 31, 2000, the Staff Benefits Fund had a fund balance of \$19,306. This, combined with the current year's deficit of \$1,623, results in a Staff Benefits Fund balance of \$17,683 as at March 31, 2001.

University of Manitoba
Comparative Statement of Trust & Endowment Funds
For the Years ended March 31 (In thousands of dollars)

	2001	2000
Revenue:		
Donations and contributions	\$ 18,785	\$ 12,183
Investment income	24,960	8,385
Other	43	24
	<u>43,788</u>	<u>20,592</u>
Expense:		
Awards, scholarships, bursaries, prizes, etc.	1,892	1,468
Investment advisory and custodial fees	378	323
Transfers of donations to other organizations	127	464
Other	27	50
	<u>2,424</u>	<u>2,305</u>
Net trust & endowment revenue	41,364	18,287
Transfers to other funds	(1,993)	(2,474)
	<u>\$ 39,371</u>	<u>\$ 15,813</u>

At March 31, 2000, the Trust & Endowment Fund had a combined fund balance of \$138,223. This, together with the current year's surplus of \$39,371, results in a Trust & Endowment Fund balance of \$177,594 as at March 31, 2001.

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

Spring 2000

Dian Cohen, President, DC Productions Ltd.
Lloyd McGinnis, CEO, ISIS Canada
Richard J. Scott, Chief Justice, Province of Manitoba
Evelyn Shapiro, Professor, Faculty of Medicine,
University of Manitoba

Fall 2000

David Oddsson, Prime Minister of Iceland
Ronald G. Worton, CEO and Scientific Director,
Ottawa Hospital Research Institute

Spring 2001

Paul Desmarais, Chairman of the Executive Committee
of Power Corporation of Canada
Peter M. Liba, Manitoba's 22nd Lieutenant-Governor
David H. MacLennan, research scientist in the
Banting and Best Department of Medical Research,
University of Toronto
Peter Mansbridge, Chief Correspondent of the
CBC nightly news program, *The National*

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.

Deans Emeriti (2000)

Janet Beaton, Nursing
Ruth E. Berry, Human Ecology
Nicholas Anthonisen, Medicine
Raymond F. Currie, Arts
James I. Elliot, Agricultural and Food Sciences
Arnold Naimark, Medicine
John G. Wade, Medicine

Dean Emeritus (2001)

Kenneth R. Hughes, Graduate Studies

Professors Emeriti (2000)

Robert W. Blanchard, Medicine
William C. Brisbin, Science
Ian Carr, Medicine, Medicine
Petr Cerny, Science, Science
Thomas E. Cuddy, Medicine
Donald H. Hall, Science
Ostap Hawaleshka, Engineering

Gert O. Martens, Engineering
Robert T. Ross, Medicine
Carol Shields, Arts
Frits C. Stevens, Science
Isamu Suzuki, Science

Professors Emeriti (2001)

Ram S. Azad, Engineering
Jaroslaw Barwinsky, Medicine
Ronald R. Marquardt, Agricultural & Food Sciences
Carl R. Nelson, Jr., Architecture
Deo H. Poonwassie, Education
Miroslaw F. Stranc, Medicine

Distinguished Professor Emeritus (2000)

Henry Friesen, former president, Medical Research
Council of Canada

Librarian Emeritus (2001)

June Dutka

Peter D. Curry Chancellor's Award

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

James W. Burns, Deputy Chairman,
Power Corporation of Canada (2000)
Pamela LeBoldus (2001)

Dr. and Mrs. Campbell Outreach Award

Established by former president Ralph Campbell in 1981, this award is given annually to staff members to enlarge and enrich the contacts between the university and all segments of the community.

Faye Hellner, Architecture (2000)
William Neville, Arts (2001)

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.

Kevin Toyne, Arts (2000)
Jeff Leclerc, Education (2001)

Distinguished Alumni Award

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

Bob Silver, President, Western Glove Works

Distinguished Service Award

Presented by the Board of Governors for exceptional contributions to Manitoba, or which are directly associated with the university.

Keith Findlay, Partner, Scarrow & Donald
Chartered Accountants



**The University of Manitoba's location
in the heart of the North American
continent, its tremendous impact on
the social and economic life of
Manitoba, its cutting-edge basic and
applied research - all attest to the
fact that the University of Manitoba is
indeed "At the Centre of It All."**

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