Sharing His Vision

Dr. Bruce Campbell (BSA/’58), who founded Landmark Feeds Inc. in 1968, turned a small rural business into one of Western Canada’s leading agribusiness companies. Landmark Feeds grew to include eight feed mills in Manitoba and Alberta. Bruce also founded the successful swine company, Elite Swine Inc.

Often regarded as a visionary businessman, Bruce has been recognized numerous times for his dedication to his industry and the people who work in it. The Canadian Feed Industry Association Golden Award, the Manitoba Entrepreneur of the Year Award, the Distinguished Agrologist Award and an honorary degree from the University of Manitoba are just a few of the many acknowledgements he has received for his contributions.

Bruce and his wife Lesley have been strong supporters of their community, the agricultural industry and the Faculty of Agricultural and Food Sciences, providing bursaries to university students as well as major donations to the National Centre for Livestock and the Environment and to the new Bruce D. Campbell Farm & Food Discovery Centre.

New Discovery Centre Takes Shape at Glenlea Research Station

A groundbreaking and official naming ceremony was held for the Bruce D. Campbell Farm & Food Discovery Centre in December 2009. The 8,280 square-foot facility, formerly known as the Glenlea Farm Education Centre, will be an interactive showplace with hands-on displays and activities on crop and livestock production, food retailing and food safety. A highlight of the Discovery Centre will be viewing windows into a research barn where visitors will peek into a day in the life of a pig.

With 30,000 visitors anticipated annually, the Farm & Food Discovery Centre will be a valuable agriculture and food production experience for people of all ages. Construction is now underway and will conclude in late 2010.

In addition to strong donor support from alumni, friends and industry, the Centre received $2.3 million in federal funding through the Community Adjustment Fund. The Province of Manitoba also contributed $900,000 towards the facility.
Greetings from the Dean...

As the acting Dean of the Faculty of Agricultural and Food Sciences, I bring you greetings on behalf of Dean Michael Trevan, who is currently on a six-month research/study leave. That means I have the pleasure of sharing with you the many activities and successes that the Faculty has achieved in the past year.

From our achievement in research to the revitalization of our academic programs, from our important outreach efforts to our interactions with visitors from near and far, we had a very busy year in 2009-2010.

We are pleased to report that the Faculty has experienced increased enrolment in its undergraduate programs. The bachelor of science program student numbers increased by 3% and for the second year in a row, we saw a dramatic increase in the diploma program - up 33%! Our graduate programs are also very healthy, with close to 190 M.Sc. and Ph.D. students across the various departments.

We have just completed our undergraduate curriculum review and the first stage of our improved curriculum will be in effect in fall 2010. To further develop the new learning outcomes, we will also be seeking to increase student engagement and provide them with opportunities to develop personally and professionally through tours, exchanges and experiential learning projects.

The Faculty is welcoming an increasingly diverse student body, and for the third year has offered the Internationally Educated Agrologist Program aimed at assisting foreign-trained agriculture professionals entering Manitoba’s agri-food sector. The continuing strong demand by industry for our graduates has encouraged us to further explore non-traditional student markets, including international and aboriginal communities.

In research, the Faculty of Agricultural and Food Sciences continues to be the top faculty at the University of Manitoba in attracting research dollars per research academic. Our total research revenue in 2008/09 was valued at $11.7 million. In the past year, our scientists have received support for projects with diverse topics such as microbial genomics for biofuels, contaminated soil remediation, gut disease genetics, phosphorus balance in livestock production systems, and the growing problem of pollinator decline.

Perhaps one of our most exciting events this year was the recent groundbreaking of the Bruce D. Campbell Farm & Food Discovery Centre. Formerly called the Glenlea Farm Education Centre, the Discovery Centre is well on its way to becoming an interactive facility aimed at public understanding of agriculture and food production. Construction is expected to be completed later this fall - watch for the Centre’s grand opening in 2011!

As evident in the Accolades section, our faculty and students have been recognized for their academic, research and community accomplishments. Our people continue to stand out for their dedication and excellence, and we applaud them.

Finally, a big thank you to all who support the Faculty of Agricultural and Food Sciences, from alumni and friends to industry partners and the provincial and federal governments. With your assistance, we are able to train top-quality graduates and to continue to provide relevant research to the agri-food industry and the community at large.

Greetings from the Dean...

Food Science Team Tastes Success

For the third year in a row, a team of University of Manitoba students placed in the top two at the Association of American Cereal Chemists International food product development competition. In 2009, the students took second place with Crepe UP, a tasty gluten-free breakfast product made with pea and rice flours. Only five teams out of 15 submissions were selected for the finals and a trip to Baltimore, MD, to showcase their products. Manitoba’s team was the only one made up of all undergraduate students. Left to right, Chenxin Zhao (Management), Huiqin Wang, and Shanleigh Thomson made the presentation, while their fourth teammate Rena Tanaka (Human Nutritional Sciences) was unable to attend. Project mentor was Sue Arntfield, Food Science.
Warm Welcomes

Dr. Belay Ayele was appointed Assistant Professor in the Department of Plant Science in June 2009. Belay will be conducting plant physiology research related to the Husky Collaborative R&D program.

Dr. Luciano Gonzalez was appointed Assistant Professor in the Department of Animal Science in October 2009. His research will focus on sustainable grasslands/livestock production systems and he has become involved with the current beef and forage projects in the department.

Dr. Chad Lawley was appointed Assistant Professor in the Department of Agribusiness and Agricultural Economics in September 2009. He has research interests in environmental and resource economics, international trade and the environment, agri-environmental policy analysis, and applied microeconomics.

Rhéal Cenerini began in November 2009 as the Farm Manager at the Glenlea Research Station. Rhéal brings many year’s of diverse agriculture-related experience including primary production, Farm Management instructor in the School of Agriculture, and the past eight years as government relations consultant with the Canadian Wheat Board.

Retired professor and senior scholar Dr. Stephen Stothers passed away April 29, 2009. Steve joined the Department of Animal Science in 1955 in the area of swine nutrition and management. He retired after 39 years which included serving as department head. He will best be remembered for his great interest in students and for his constant support and interaction with all segments of the animal feed industry and the swine industry in Manitoba.

IN MEMORIAM

Retired technician Rufus Oree passed away on February 15, 2010. Rufus began working in the Department of Plant Science in 1974 for Dr. Ed Larter. Throughout his career, Rufus also worked for Drs. Kevin Vessey, Lakhdar Lamari and Rene Van Acker.

Dean emeritus Dr. Robert McGinnis passed away on July 5, 2009. In his 28-year career with the Faculty, Dr. McGinnis served as Department Head in Plant Science and as Dean of the Faculty from 1979 to 1989. He and his late wife Lenore spent several years working in Kenya and India, and were very active in their community. The Faculty established the Robert and Lenore McGinnis Meritorious Student Award in 1989 in recognition of their dedication. In 1993, Dr. McGinnis was awarded the AIC’s International Agricultural Development Award for his outstanding contribution to the agricultural development in Canada and internationally.

Dr. Lakhdar Lamari passed away on December 11, 2009. Lakhdar came to the University of Manitoba in 1979 to pursue his M.Sc. and Ph.D. degrees in plant pathology. He joined the faculty as a researcher and professor in Plant Science, a position he held for 20 years. Lakhdar taught diploma, degree and graduate courses in plant pathology and also conducted internationally recognized pathology research in cereals with special emphasis on tan spot diseases in wheat. He was the first researcher in the world to unravel tan spot’s mysterious host-pathogen interactions. One of Lakhdar’s major projects was the development of a computer-based plant disease measurement program called “Assess”.

Retired staff member Frank Tennenhouse passed away on January 30, 2010. He retired in 1988 as associate professor from the Department of Biosystems Engineering (known then as Agricultural Engineering).

Fond Farewells

Jim Philip. Biosystems Engineering, retired in June 2009 after long service to the Faculty as an instructor in farm power and machinery, shop methods and materials handling in the diploma program. Jim was first hired in 1969 and taught for a total of 37 years. He received eight teaching awards during that time and was a favorite instructor of many students.
Biofuels Research Funded

David Levin, Biosystems Engineering, and Richard Sparling, Microbiology, are co-leaders in a $10.4 million international collaboration looking for new ways to convert waste materials like wood chips and straw into biofuels and other products. The four-year project is made possible through partnership with Genome Canada, Genome Prairie, the Province of Manitoba’s Ministry of Science, Technology Energy and Mines, and numerous other research partners.

University of Manitoba researchers in Agricultural and Food Sciences, Science, Engineering, and Medicine will collaborate with scientists at the University of Waterloo and Ryerson University. The project also involves researchers in microbiology, biochemistry, genomics, bioinformatics, proteomics, and engineering from across Canada, the United States, and New Zealand.

Key Research Infrastructure Funded

Three Agricultural and Food Sciences researchers will receive Canada Foundation for Innovation funding for important research infrastructure: Denis Krause in Animal Science for a gut microbiome research program, focusing on both humans and livestock; Martin Scanlon from Food Science (along with Department of Physics and Astronomy colleague John Page) for ultrasound technology to study how waves travel through complex media; and Francis Zvomuya from Soil Science for a controlled environment lysimeter facility for the study of contaminated soil. The support comes from the Leaders Opportunity Fund, which seeks to attract and retain leading researchers.

Faculty Hosts International Traceability Conference

Trace R&D 2009, a research and development conference and strategic workshop for agriculture and food traceability organized by the University of Manitoba and supported by Canada’s Industry-Government Advisory Committee on Traceability, was held June 2009 in Winnipeg. Traceability is the ability to follow food products, whether sourced from plants or animals, from their origin on the farm through transportation, processing and distribution into the retail market. The first conference of its kind in Canada, Trace R&D 2009 brought together more than 200 stakeholders in government, academia and industry from across Canada, the United States, and around the world to discuss current traceability research and development and to develop a Canadian strategy to guide future research and developments, collaborations and regulations in food traceability.

Phosphorus Expertise Shared

Don Flaten, Soil Science, is well-known in the agricultural community in Manitoba for his frequent outreach activities to producers and organizations. In particular, he is sought by media and others for his commentary on understanding the role of soil impacts on water quality and the use of best management practices to reduce nutrient loading to water bodies.

In the past several years, Don has provided his scientific expertise and opinion towards phosphorus management in the Lake Winnipeg watershed area. He has served as a member of the Government of Manitoba Phosphorus Expert Committee and the Lake Winnipeg Stewardship Board, where he volunteered countless hours of his time providing valued technical expertise. He was also instrumental in helping the University of Manitoba secure funding from the Province to support a research chair in watershed systems.

Students Have Amazing Agriculture Adventure

Agriculture in the Classroom-Manitoba’s Amazing Agriculture Adventure celebrated its tenth anniversary in 2009 by moving to two new venues: the University of Manitoba’s Glenlea Research Station and Richardson International’s Kelburn Farm. Under sunny skies last September, more than one thousand Grade 4 and 5 students from Manitoba urban and rural schools learned first-hand about a variety of agriculture topics. Students worked their way through 18 interactive stations at the two farms to learn about the many different aspects of agriculture. Faculty students and staff volunteered to make this event a great success.
The National Centre for Livestock and the Environment (NCLE) is the University of Manitoba based research community seeking to further the economic and environmental sustainability of integrated livestock and crop production. NCLE pursues this mandate through multidisciplinary whole-system-based research.

This past year, NCLE scientists explored a range of projects, from greenhouse gas mitigation to phosphorus balance, from sow productivity under different housing systems to pathogen survival in cattle overwintering systems. The NCLE team also hosted several tours, including the Texas Farm Bureau, the Manitoba Cattle Producers Association, and Manitoba Pork Council.

In late 2009, NCLE partnered up with the Manitoba Livestock Manure Management Initiative, Manitoba Agriculture, Food and Rural Initiatives and the Manitoba Manure Management Advisory Committee to host a special workshop entitled “Achieving Manure P Balance in Manitoba”. Government, industry and research leaders came together to identify research and extension priorities aimed at helping Manitoba livestock producers manage manure P for balance. NCLE’s role will be to pursue research that addresses the gaps in knowledge.

Want to stay up to date with NCLE’s activities? Subscribe to their bi-monthly newsletter by emailing christine_rawluk@umanitoba.ca or visit umanitoba.ca/afs/ncle/ today.

University of Manitoba Student Garden Grows Bigger

The theme of the University of Manitoba Student Community Farm, now in its second year, is “Taking Gardening Out of the Box”. The student-led initiative, located on two acres near the main entrance of the University of Manitoba, seeks to foster community spirit and volunteerism within the university by growing food through sustainable agriculture practices.

In 2009, a portion of every crop went to the Knox Centre in downtown Winnipeg, which helps recent African immigrants settle into Canada. Students also hosted a farmer’s market in Osborne Village where they sold a portion of the crop. The remaining portion went to the students that worked on the garden.

The group has as many as 200 members, with a core group of 40 students who are at the heart of planting and maintaining the garden. Most of them are graduate students and while the Faculty of Agricultural and Food Sciences is well represented, there are students from a range of faculties. The Faculty of Agricultural and Food Sciences also plays a big role in helping to maintain the garden.

Connect with Us Online

Stay up-to-date with the Faculty with the following online resources:

staff.matters - our bi-weekly e-newsletter with the news and events of the Faculty: umanitoba.ca/afs/staffmatters/

UniversityNews.org - a daily e-newsletter highlighting the Faculty’s research projects featuring audio clips of interviews with researchers: universitynews.org

Special Seminars - a video archive of special lectures and presentations: umanitoba.ca/afs/seminars

Alumni Honored for Community Achievements

Two alumni of the Faculty were recognized for their outstanding contributions to Manitoba’s agricultural community. Bob Roehle, market analyst and agricultural communicator, and Ray Timmerman, mixed farmer and soil/water conservationist, received the 2009 Certificate of Merit from the Manitoba Agriculture Grads Association and the University of Manitoba at the degree and diploma graduation ceremonies last spring.

www.umanitoba.ca/afs Faculty of Agricultural and Food Sciences, University of Manitoba 5
Our Donors

We would like to thank the people who alone or as part of an organization or corporation have pledged to put their money to work for the Faculty. This money has made a big difference to the Faculty - it has helped students cover the cost of their tuition and books, paid for new research equipment, refurbished classrooms and laboratories, and sent students on field trips.

As a donor, you can tell us how you would like your gift directed - to scholarships and bursaries, to special funds such as the National Centre for Livestock and the Environment or the Glenlea Guardian Graduate Fund, or to the Faculty of Agricultural and Food Sciences Endowment Fund, which provides teaching and other resources for the Faculty. If you would like to make a donation, visit the Development and Advancement Services’ website at umanitoba.ca/admin/dev_adv/, call (204) 474-9195 or 1-800-330-8066 or email development@umanitoba.ca.

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Animal Nutrition Assoc of Can Manitoba Div
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List includes donors of $500+ to Faculty of Agricultural and Food Sciences affiliated funds.
Information provided by Development and Advancement Services for the period of January 1, 2009 to December 31, 2009.

Growing the Opportunities Continues to Connect Students and Employers

The third annual Growing the Opportunities event organized by the Agribusiness Students Association was held in November 2009.

This student-industry dinner provides excellent networking opportunities between agri-food industry representatives and our degree and diploma students. More than 175 students and business people attended the sold-out event.

The keynote speaker was David Dzisiak, Global Commercial Leader for Oils, Dow AgroSciences, who spoke on the future of agriculture and the agri-food industry, and increasing consumer awareness of the foods they eat. He also touched on how the agricultural careers are gaining recognition as professional, innovative and well-paid occupations.
Retired professor Louis Lenz, Plant Science, received the A.P. Stevenson Commemorative Award for conspicuous achievement in the field of horticulture from the Manitoba Horticultural Association.

Karmin O, Animal Science, was honoured with the 2009 Health Sciences Graduate Students Association Award for Distinction in Mentorship.

Merv Pritchard, Associate Dean (Academic), was honored with an Instructor Service Recognition award for his involvement in the Prairie Horticultural Certificate program.

Karmin Wittenberg, Associate Dean (Research), received the 2009 Pork Industry Award in the Education category by the Manitoba Pork Council for her outstanding contributions to the hog industry through her efforts to make research accessible and meaningful for all.

Muthu Bagavathiannan, Ph.D. student in Plant Science, received the Graduate Student Teaching Award of Merit from the North American Colleges and Teachers of Agriculture for excellence in teaching.

Pamela Delanno, Agribusiness graduate in May 2009, was awarded the Daryl F. Kraft Undergraduate Student Paper Prize in Agricultural Policy valued at $1,000.

Krista Hanis, M.Sc. student in Soil Science, received the Garfield Weston Award for Northern Research valued at $15,000.

Victoria Gauthier, Plant Science, and Janelle Wallace, Agribusiness and Agricultural Economics each received one of the three Canadian Wheat Board Graduate Fellowships awarded in 2009-2010, valued at $33,000 over two years.

Tyler Grant, Biosystems Engineering, was awarded the prestigious Rhodes Scholarship. Tyler will be studying biomedical engineering in Oxford beginning in October 2010.

Katelyn Graye, Agribusiness, received the 2009 Nola Brown Continuous Achievement Award from Jersey Canada valued at $1,500.

Tina Harms, Agroecology, received a $10,000 Canadian International Development Agency scholarship in support of her studies on pesticide handling, storage and use practices in rural communities.

Anastasie Hacault and Janelle Wallace, M.Sc. students in Agribusiness and Agricultural Economics, were awarded a 2009 Douglas McRorie Memorial Scholarship valued at $1,500 each.

Perry Klassen, a fourth-year Biosystems engineering student, received $1,000 as one of the Regional Champions at the Advancing Canadian Entrepreneurship (ACE) 2009 National Student Entrepreneur competition.

Devon operates a small mixed farming operation in south central Manitoba. After being named Manitoba Champion, Devon participated in the regional rounds of competition held in Calgary, Halifax and Toronto, where students presented their entrepreneurial success stories to panels of entrepreneurs and business leaders. Regional champions were selected to receive a $1,000 cash prize and participate in the final round of competition at the ACE National Exposition in Toronto.

Derek Brewin, Agribusiness and Agricultural Economics, received the 2008-09 Teaching Award of Merit from the North American Colleges and Teachers of Agriculture for excellence in teaching.

Anita Brulé-Babel, Plant Science, received an Honorary Life Membership award from the Manitoba Seed Growers' Association in recognition of her significant contributions to the pedigreed seed industry.

Walter Bushuk, emeritus professor in Food Science, was made a Fellow of the Academy of the International Association for Cereal Science and Technology for his contributions to the profession of cereal science.

Don Flaten, Soil Science, was honored with the CSSS Soil Science for Society Award for his extensive contributions to promoting soil science in Manitoba and Canada.

Gary Fulcher, Food Science, was honoured for his outstanding work in cereal grains with the distinguished 2009 Geddes Memorial Lectureship by the AACC Northwest Section.

Rick Holley, Food Science, received the 2009 Dr. and Mrs. Ralph Campbell Outreach Award for his outstanding outreach work with the food industry and all levels of government.

Digvij Jayas, Biosystems Engineering and University of Manitoba Vice-President (Research), was inducted as a Fellow to the Engineering Institute of Canada for exceptional contributions to engineering in Canada. He was also elected to the Royal Society of Canada, the country’s most prestigious association of scholars and scientists.

Neil Holliday, Entomology, received the Gold Medal from the Entomological Society of Canada. This is the highest honour awarded by the Society, given for outstanding achievements in research, teaching and extension entomology. Neil also received a 2009 University of Manitoba Outstanding Teacher Award at the annual Students’ Teacher Recognition reception. He was nominated by agroecology student Jonathan Veilleux.

Christine Ho, Plant Science, was honored with a $10,000 Canadian International Development Agency scholarship in support of her studies on pesticide handling, storage and use practices in rural communities.

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Milestones, memories and mischief.

The Faculty’s AgCentennial publication *Times of their lives - Milestones, memories and mischief* documents the Faculty’s significant events and notable people over the last 100 years. The 232-page softcover book is filled with great recollections and amazing photos. The closing pages of the book include the over 10,000 names of faculty and graduates.

Visit [umanitoba.ca/afs/agcentennial/](http://umanitoba.ca/afs/agcentennial/) to see a preview and for an order form that can be filled out and mailed or faxed back to us. Alternatively, you can call us with your order details at (204) 474-9435. The cost of the book is **$19.95 plus GST** and optional shipping.