

Manitoba Consulting Engineer

Official publication of the Association of Consulting Engineering Companies - Manitoba

VOLUME 2 · MMXI



A New Look. The Same Purpose.
The rationale behind the rebrand

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Shirley Tillett, TCM-EVM
Association of Consulting Engineering
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Phone: 866-985-9780 • Fax: 866-985-9799
E-mail: info@kelman.ca • Web: www.kelman.ca

Managing Editor: Scott Kelman
Design/Layout: Theresa Kurjewicz
Advertising Manager: Darrell Harris
Advertising Co-ordinator: Lauren Campbell

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Herb Kuehne, P.Eng.



John Gamble, P.Eng.

ACEC Manitoba makes enormous strides

On behalf of the Board and the membership of ACEC Canada, congratulations to ACEC Manitoba on the enormous strides it has made to advance and enhance the image of the consulting engineering sector in Manitoba. Thanks to the commitment and participation of its members, ACEC Manitoba has made significant progress in a few short years. This publication is one positive outcome of a visionary and effective image campaign led by Chair Jonathan Epp, Publication Co-ordinator Jomar Manzano, and Past President Ron Typliski.

Consulting engineers play a vital and unique role in our economic, social and environmental quality of life. Engineering is not a discretionary expense, but rather

"It is critical that ACEC Manitoba and its members continue to build upon the strong profile that the association enjoys."

an investment. You are innovators. You are the enablers of communities. You are the enablers of our economy. You are the stewards of our environment. You stand at the interface between the natural and built environments. Engineering is the profession that reconciles societal needs with science and technology.

ACEC Manitoba has had a successful year in meeting with provincial and municipal representatives on issues important to both your industry and to all Manitobans. It is important that political and community leaders understand your crucial role in our economy and our quality of life. It is critical that ACEC Manitoba and its members continue to build upon the strong profile that the association enjoys. This good standing and credibility among your stakeholders will allow you to further expand the reach of your influence. Enhancing your profile and credibility is a cornerstone of continuing your advocacy for a better business climate – not just for the engineering community, but for all Canadians.

Good work and good luck with your future endeavours. ACEC Canada looks forward to supporting and working with ACEC Manitoba, Executive Director Shirley Tillett and new President Bruce Wilton. 🇨🇦

Herb Kuehne, P.Eng.
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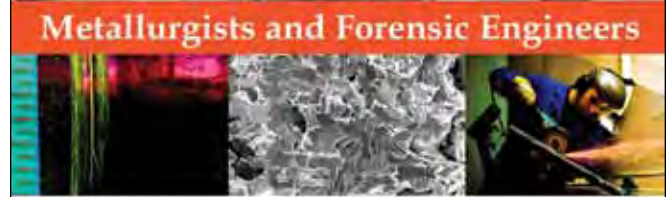
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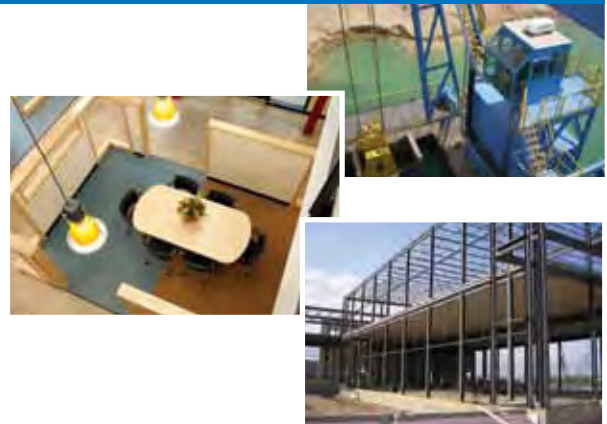


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Taking care of business

It is indeed an honour and privilege to lead this organization through the next twelve months. My hope is that I can live up to the standards that have been set by those that have gone before me. In particular, I would like to specifically acknowledge the hard work and dedication of my predecessor, Ron Typliski.

Ron has spent countless hours attending meetings or on teleconference calls – all to ensure that the consulting engineers in Manitoba have a voice on the important issues that impact our industry

I also wish to acknowledge the dedication of each member of the Board of Directors, and to welcome the new members to the Board, Cameron Dyck and Owen Van Wallegghem. Each Director sits as liaison to one of each of the ten committees that currently report to the Board. Without the hard work and dedication of the members of each of these committees, the work of the association would grind to a halt.

Some of these committees do need special recognition.

This publication is the responsibility of our newly formed Image Committee, and, as is evident from the quality of this effort, they have done a bang-up job. The Image Committee has also taken responsibility for the re-branding of our organization from the Consulting Engineers of Manitoba (CEM) to the Association of Consulting Engineering Companies – Manitoba (ACEC-MB). This initiative aligns us more closely with our national organization. This has meant the re-design of a logo, website and promotional material, much of which was done by this committee.

Our Young Professionals (YP) Committee has added a spark to the organization. They have planned several networking events which have been well attended by the young people in our

B. (Bruce) Wilton, P.Eng.



Photo submitted by Tony Nardella

“Without the hard work and dedication of the members of each of these committees, the work of the association would grind to a halt.”

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MESSAGE from the PRESIDENT

“Our industry is facing some interesting and challenging issues as we head into the coming year.”

organizations. Owen Van Wallegham will represent the YPs on the Board, and will keep us all on our toes with some of the imaginative approaches that the YPs are using to integrate our younger staff into the Association’s activities.

The Awards Committee plans and executes our annual Awards Banquet in the spring of each year. I have been part of this committee for the last two years, and have personally experienced the fact that it is run with precision, like a well-oiled machine. The incoming chairman, Trevor Gluck worked hard last year to raise the level of sponsorship for the event, with outstanding success. We are looking forward to a continued strong performance from this committee in the coming year.

The Energy Science and Technology Committee held a very successful reception for Manitoba Hydro which was well attended by representatives of both organizations. A similar reception was held by the Transportation Committee for the Manitoba Department of Infrastructure and Transportation. These receptions proved informative, and gave members of ACEC-MB an opportunity to network with both of these client groups in a casual environment.

The glue that holds all these committees, and the Board, together is our Executive Director, Shirley Tillett. Shirley and her staff work tirelessly to deal with the routine business of this association, and to support the operations of both the Board and the committees.

Our industry is facing some interesting and challenging issues as we head into the coming year. To provide some direction on these issues, the Board held a retreat in May to set a course for the coming year.

In addition to continuing with the initiatives of the previous years, the Board felt that the following four areas needed special attention in 2011/2012:

1. Development of a strategy for improving the public image of the consulting engineering profession
2. Steamlining of the ACEC-MB Board Activities
3. Review of the current ACEC-MB committee structure and mandates
4. Provision of input to the Provincial Government on the New West Partnership Trade Agreement

Before closing, I would like to reiterate the support the Board has for the young professionals within our industry. Several months ago, Beth Phillips (retiring YP member of the Board) circulated to the members of the Board an article on the ‘millennials’, the generation born between the years 1980 and 2000. These are the staff we are hiring today.

It was enlightening for me to see how different their expectations for the workplace are from the ones that those of us with grey hair – or no hair – have held in the past. This difference illustrates how extremely important it is that we continue to receive, and act on, input from our young people. Our workplaces and our markets are changing, and these are the young people that are going to lead our companies in the future.

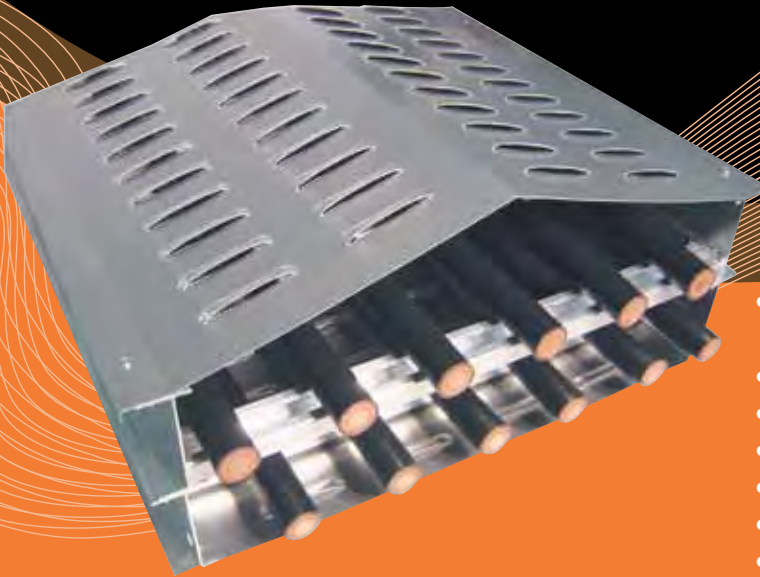
In closing, I am both humbled and honoured to serve as President of ACEC-MB this year. I will, together with the rest of your Board, work hard to promote our profession in Manitoba and across Canada. ☺

B. (Bruce) Wilton, P.Eng.,
President

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A New Look. The Same Purpose.

The rationale behind the rebrand

Submitted by ACEC-Canada

Consulting Engineers of Manitoba (CEM) has officially changed its name to the Association of Consulting Engineering Companies – Manitoba (ACEC-Manitoba). “The name change made sense”, says Jonathan Epp, Chair of the Association’s Image Committee. “CEM has always worked to increase the success and build the profile of consulting engineering companies in Manitoba, just as our parent organization, the Association of Consulting Engineering Companies–Canada (ACEC-Canada), has on a national level. The name change emphasizes that joint commitment with ACEC-Canada to build up the trust and success of Manitoba’s consulting engineering companies.”

The rebranding campaign offers a consistent message and image, recognizable across Canada and beyond, that benefits from the exposure that the ACEC-Canada brand gets at a national level.

“The alignment in branding with ACEC-Canada emphasizes key goals that we already had as part of our organization, **cooperation** with the other provincial bodies and the national association, and a **common goal** of enhancing and sustaining our industry

“The name change emphasizes that joint commitment with ACEC-Canada to build up the trust and success of Manitoba’s consulting engineering companies.”



ASSOCIATION OF CONSULTING
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through shared practices and resources,” Jonathan says. “In a way, ‘rebranding’ is a misnomer, we have always been an important part of ACEC-Canada, this just makes that association obvious. We are using the name change as an opportunity to tell people again about what we stand for and to bring about efficiency in our operations.”

Behind the name change, the Association of Consulting Engineering Companies – Manitoba is still the same group of companies and dedicated individuals working to help its member firms be more successful and build the profile of consulting engineering.

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Celebrating 60 years

Investing in our quality of life

Sustainable infrastructure begins with sustainable investment

Submitted by ACEC-Canada

Infrastructure is an investment – not an expense. It is an investment in our economic, social and environmental quality of life. If the benefits to our quality of life are to be sustainable, either economically or environmentally, then the investment must also be sustainable.

While the recent renewal of interest in infrastructure investment by all levels of government (and private sector) is welcomed, we still have a long way to go before we achieve sustainability. In fact, our commitment to long-term funding

strategies by all levels of government has significantly waned since the 1960's. Consequently, since then, infrastructure investment in Canada has decreased by half. In 2004, TD Bank Financial Group released its landmark study *Mind the Gap: Finding Money to Upgrade Canada's Aging Infrastructure*. That study identified a 50% decline in annual per capita capital investment by Government from 1962 to 2003 with a resultant infrastructure investment shortfall as high of \$125 billion in 2004. The more

recent 2010 study, *Public Infrastructure Underinvestment: The Risk to Canada's Economic Growth* commissioned by the Residential and Civil Construction Alliance of Ontario (RCCAO) states that infrastructure investment declined from nearly 6% of GDP in 1960 to approximately 3% of GDP in 2004. The RCCAO study is noteworthy because it directly addresses the consequences of under-investing in infrastructure. This is important because the impact of infrastructure on our lives is largely unrecognized and



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“A sustainable, long-term, strategic infrastructure investment plan will make Canada more competitive, create long-term jobs in multiple sectors and make our economy more resistant to downturns.”

taken for granted. While we all expect safe, drinkable water to be immediately available to us in the convenience of our own homes, the required financial, technological and human resources are normally far from our minds. Similarly, the consequences of underinvestment are often gradual and not immediately recognized. In essence it predicts that if investment remains at the average of the past decade, the ongoing infrastructure investment gap will cost the Canadian GDP 1.5% each year.

Sustainable infrastructure investment makes good business sense for public agencies charged with planning, developing and operating infrastructure assets. A sound investment strategy is long-term and predictable. It should also clearly identify the roles and responsibilities of the various levels of government (and private sector partners where appropriate) and provide predictable ongoing funding. The challenge of sporadic,

time-limited infrastructure programs is that they create uncertainty for municipalities and infrastructure agencies. It becomes difficult for them to adequately plan for our longer-term infrastructure needs – preventing them from investing strategically. This poses a number of practical and logistical problems. Short-term programs make it extremely difficult for government and infrastructure agencies, engineering firms and construction companies to attract, train and retain the expertise required to deliver infrastructure projects. These are largely high-skilled, well-trained professionals – often requiring licensing. Also, when a large number of projects are required to be designed and constructed within the same short time frame, the forces of supply and demand result in higher costs. Short-term programs also tend to result in low complexity projects which are not necessarily the projects with the most strategic or long-term economic

value – limiting the potential long-term competitive advantages to the Canadian economy.

A sustainable, long-term, strategic infrastructure investment plan will make Canada more competitive, create long-term jobs in multiple sectors and make our economy more resistant to downturns. In fact, the Conference Board of Canada in its recent series of reports *Lessons from the Recession and Financial Crisis* (March 2010) concluded that of all fiscal stimulus measures, infrastructure investment has had the largest impact on economic growth.

Without a long-term strategic investment program, a golden opportunity is being lost. Strategic investment in infrastructure is imperative to achieving sustainability and significant life-cycle savings. This investment is essential not only to our economy but also to our quality of life and to sustaining the environment that surrounds us. ☘

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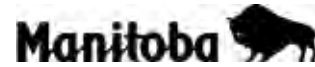

All non-project photos submitted by Tony Nardella



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2011 Judging Panel

Dustin Booy, M. Eng., P.Eng. is the Contract Engineer for the Engineering and Operations Division at Manitoba's Department of Infrastructure and Transportation. With more than ten years of experience in project management and transportation engineering, Dustin has been involved in such recent notable projects as the CentrePort Canada Way Design-Build where he acted as a Project Manager. His diverse career experience also includes accomplishments in the discipline of geotechnical

engineering as well as environmental engineering. He holds Bachelor of Science in Civil Engineering and Master of Engineering (Geotechnical) degrees from the University of Manitoba.

Dave Ennis, P.Eng. is the former Executive Director & Registrar of the Association of Professional Engineers and Geoscientists of Manitoba, and former director on the Board of Engineers Canada. He has prior experience in bridge engineering and in the heavy

construction industry. He is a graduate in Civil Engineering from the University of Manitoba and is currently a part-time M.Sc. student.

Lawrence Ferchoff, FEC, P.Eng. is currently the Manager of Electrical Codes & Standards/Chief Electrical Inspector for Manitoba Hydro. Over the past ten years, Lawrence has also been directly involved in the development of advanced metering technology and alternative energy and northern generat-

ing station projects for Manitoba Hydro. He has extensive prior experience in the consulting industry, including project and business unit management, and electrical and control systems engineering for energy, infrastructure, environmental and industrial projects. He holds a B.Sc. in Electrical Engineering from the University of Manitoba, has been active in professional and community organizations, including APEGM, the United Way, IEEE, Toastmasters and Consulting Engineers of Manitoba.

Ronald Hambley, MCP is the Executive Vice President and Chief Operating Officer of the Winnipeg Construction Association and has been working in the association management field for over 20 years with various business and construction groups in Manitoba. Born in Thompson, Manitoba, Ron received his Masters in City Planning (MCP) from the University of Manitoba, a Certificate in Economic Development from the University of Waterloo, and his undergraduate degree (BA) from the University of Winnipeg.

Grant Koropatnick, P.Eng. is the Executive Director & Registrar for the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). He is a graduate Civil Engineer and holds a certificate in Human Resource Management from the University of Manitoba. With more than 20 years experience, Grant has held technical and managerial positions in human service environments including the University of Manitoba and the Pembina Trails School Division. Born and raised in Winnipeg, Grant enjoys a variety of interests in his spare time including running for fitness, writing, public speaking and philanthropy.

David Kuhn, Ph.D., P.Eng. graduated with a Ph.D. from Queen's University at Kingston and is currently a Professor and the Head of Mechanical and Manufacturing Engineering at the University of Manitoba. Prior to joining the University of Manitoba he was a Professor at the University of Toronto in the Department of Chemical Engineering and Applied Chemistry and a



Back row: Dustin Booy, Peter Rasmussen, Lawrence Ferchoff, Dave Ennis, Grant Koropatnick, David Kuhn. Front row: Ronald Hambley, Mal Symonds, Randy Raban, John Markowsky

consultant for Chemical Engineering Research Consultants Limited. His area of research is the computational and experimental investigation of complex multi-phase flows.

John Markowsky, P.Eng. M.A.Sc, MBA
John's career has always been focused on the project and construction management of heavy civil projects. Over the past 25 years John has contributed to various phases of seven (7) hydroelectric projects with Manitoba Hydro and others both domestically and overseas. Recently he was the on-site Resident Manager for the Wuskwatim Hydroelectric project where his responsibilities were to develop and manage a team responsible for all aspects of the construction phase including partnership, environmental, technical and contract challenges. His love and ability to play in construction would not be possible without the continued support of his wife Jan and family.

Randy Raban, P.Eng. has had an exciting career at Manitoba Hydro since graduation from Civil Engineering at the University of Manitoba in 1972. His diverse background has included design, construction, commissioning, planning, hydraulic system operations, stakeholder relations and various management re-

sponsibilities. For the past ten years he has been managing Manitoba Hydro's Engineering Services Division, a group of five departments that do Engineering Design and Project Management.

Peter Rasmussen, Ph.D., P.Eng. is Professor and Head of the Department of Civil Engineering at the University of Manitoba. Peter obtained a Ph.D. degree from the Technical University of Denmark in 1991. After graduation, he joined the research centre INRS-Eau with the University of Quebec where he worked for several years in the area of statistical hydrology. In 1999, he moved to the University of Manitoba. Peter's area of research is hydrology, with emphasis on statistical design methods and climate change impact assessment.

Malcolm Symonds, P.Eng. is an Engineer-in-Residence and Associate Professor in the Design Engineering Department at the University of Manitoba. Prior to his present position, he spent 36 years in the aerospace sector with the Royal Canadian Navy, the Air Reserve, and Bristol Aerospace. He retired from the latter as Director of Engineering Services. He has been the president of the APEGM and is now on the CEQB of Engineers Canada. He has also been the Commanding Officer of 402 'City of Winnipeg' Squadron.

Keystone Award

AWARD OF EXCELLENCE – MUNICIPAL AND WATER TECHNOLOGY

AECOM Canada Ltd. and CH2MHill, Winnipeg Water Treatment Plant

The Winnipeg Water Treatment Plant (WTP) is a new \$300 million facility that has helped the City of Winnipeg reduce the risk of waterborne disease, lower the level of disinfection by-products and improve the water's taste and odour. The 400 million liter per day plant, uses a dual train system that integrates several advanced filtration and treatment processes, including dissolved air flotation, ozonation, biologically activated carbon filtration and ultraviolet

disinfection. The WTP has achieved water quality results that exceed provincial regulatory requirements.

AECOM, in partnership with CH2MHill, provided pilot testing, conceptual and detail design, and construction management services for the project. The WTP's construction phase spanned five years and involved 56 individual contracts and more than 2,000 project drawings. In total the plant's design includes 40 programmable



logic controllers (PLC), 140 pumps, 2,300 valves and 1,400 instruments. The project was constructed and integrated into service while maintaining continuous water supply to the City of Winnipeg. "Our success on this project can be attributed to the dedication and efforts of the entire project team," said Ray Bilevicius, associate vice president, AECOM. "It also speaks to the strong working relationship developed with our client and other stakeholders."



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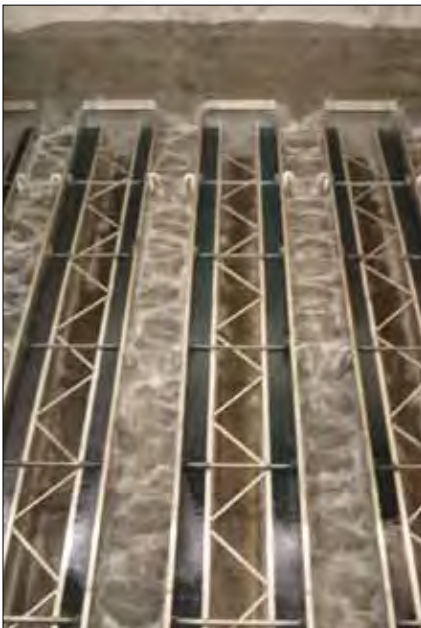
JUDGE'S COMMENTS

At \$300 million, Winnipeg's new water treatment plant is the largest capital project ever undertaken by the City of Winnipeg. The judges chose this project for an award of excellence due to the number of challenges faced and met during the 60 month construction period. The processes used are both advanced and simple, chosen specifically for the City's needs focusing on pathogen removal for public safety, disinfection by-product reduction and taste and odour control. The resulting water quality exceeds current drinking water regulations.



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AWARD OF EXCELLENCE – BUILDING ENGINEERING

Crosier Kilgour & Partners, The Bedford Parkade Project

The original Ryan Block was completed in 1903, and served a variety of tenants until the early 1990s, after which it was vacant. Sadly, the building suffered a series of fires and water infiltration, and in 2007, it was deemed structurally unstable. Because of the historical significance of the building, the City of Winnipeg, together with Bedford Investments and Dominion Construction, embarked on an ambitious project to save the building façade. After Crosier Kilgour

& Partners Ltd. investigated various stabilization proposals, it was decided that the original Ryan Building would be deconstructed and the exterior brick and tyndall stone details would be painstakingly recorded and re-built as an integral component of the new Bedford Parkade and Retail Development. New phototelemetric scanning technology was used to produce a digital record of the original building to facilitate one of the largest façade reconstructions in Winnipeg history. This innovative



project will provide enduring benefits to Winnipeg's downtown Exchange District, while maintaining and complementing the aesthetic character of the area.



JUDGE'S COMMENTS

The judges selected this project for an award of excellence because of the marriage of the latest technologies of phototelemetry to the restoration of an obsolete industrial building. The Ryan Building was structurally unstable but needed to be preserved as a heritage site. One of the biggest challenges was removing, preserving and re-installing all of the original tyndall stone from 1903 as a restoration façade to accommodate the construction of a needed parkade in the Exchange District. The combination of new technology and diligent attention to detail let to the successful completion of one of the largest façade reconstruction projects in Winnipeg's history.

Photos submitted by Crosier Kilgour & Partners



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 - University of Manitoba
 - Manitoba Lotteries Corporation
 - Aboriginal People's Television Network
 - HSC Parkade Security Systems
 - Winnipeg Stadium (in progress)
 - Winnipeg Airport Authority
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AWARD OF EXCELLENCE – INFRASTRUCTURE AND TRANSPORTATION

Dillon Consulting, Southwest Rapid Transit Corridor Project

Since the early 1970s the City of Winnipeg has contemplated a Rapid Transit System.

Of the many challenges posed in this multidisciplinary project, the greatest achievement was designing a two-lane tunnel structure to cross under the seven CN railway tracks that would have a minimal impact to

CN rail traffic operations, work within stringent property constraints, and enable construction to be completed within two years. The resulting design is a 200m long cast-in-place concrete, structurally shored tunnel including 150m of retaining/wing walls, complicated by three phases of CN track relocation and two phases

of tunnel construction. In order to complete the tunnel construction works within two years, CN's railway tracks must be relocated in three separate phases and the tunnel itself will be constructed over two stages. Construction of the tunnel commenced in 2009 and is anticipated to be completed in November 2011.



JUDGE'S COMMENTS

The judges chose this project due to its many challenges and complexity. The requirement to complete construction within an extremely confined space was impressive. The consequences if construction had impacted surrounding business and especially the CN mainline could have been catastrophic. The successful completion of the tunnel is testament to a well-run project and competent planning and execution.



Photos submitted by Dillon Consulting

AWARD OF EXCELLENCE – INFRASTRUCTURE AND TRANSPORTATION



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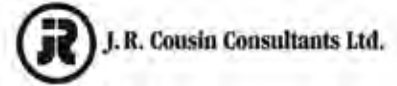
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AWARD OF EXCELLENCE – ENVIRONMENTAL

J. R. Cousin Consultants Ltd., White Lake Campground Wastewater Biofiltration Treatment and Disposal System

The White Lake Campground in the Whiteshell Provincial Park was in need of a new wastewater treatment system to replace the septic field, which had failed and was decommissioned in 2008. Temporary holding tanks were installed on site, with ongoing pumping and truck hauling, however a permanent and more sustainable solution for wastewater

management was essential for the environmentally sensitive parkland area. J.R. Cousin Consultants utilized the Waterloo Biofilter wastewater treatment system for biological treatment and UV disinfection, to produce high quality effluent with field dispersal. The White Lake Campground now has an energy efficient, environmentally sound, sustainable and



technologically advanced effluent treatment and disposal system. This system is the largest Waterloo Biofilter installation in Manitoba and will provide a safe and long-term solution for the Parks and Natural Areas Branch.



JUDGE'S COMMENTS

This project received an award of excellence for its application of technology in a short project timeline. Using the Waterloo Biofiltration system with remote sensing and control proved to be the first time this system was utilized in Manitoba. The social and environmental benefits are obvious, as campers can enjoy the great Manitoba outdoors with low impact on the environment due to the innovative wastewater management system.



Photos submitted by J.R. Cousin Consultants Ltd.

AWARD OF MERIT – BUILDING ENGINEERING



Project Name: Beaver Brae High School Renovations

Firm: MCW/AGE Consulting Professional Engineers

Client: Keewatin Patricia District School Board

The Keewatin Patricia District School Board retained MCW/AGE and Habib Architects Inc. early in 2006 to help breathe new life into its largest school in Kenora; Beaver Brae Secondary School.

Through extensive collaborating efforts, the result is a school with state-of-the-art mechanical and electrical systems, which reduce the operating budget by 50%. The project, which saw 97% of

the building renovated without missing a single day of classes, was completed on budget and ahead of schedule. The most rewarding benefit being a reduction in student and staff absenteeism due to illness.



Photos submitted by MCW/AGE Consulting Professional Engineers

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AWARD OF MERIT – INFRASTRUCTURE/TRANSPORTATION



Project Name: Letellier Bridge – West Bank Stabilization

Firm: KGS Group in association with Dillon Consulting

Client: Manitoba Infrastructure & Transportation

Since initial construction in 1955, the original Letellier Bridge frequently required repair and retrofit alterations resulting from significant riverbank instability and movements. Taking advantage of Canada's Economic Action Plan, Manitoba Infrastructure brought the project from de-

tailed design to 'shovel ready' for construction of the new structure to begin in 2009. The extensive Lake Agassiz clay deposit, coupled with a strong upward groundwater gradient compelled the design team to pioneer leading-edge riverbank stabilization techniques using new materials. KGS

Group designed an array of steel pipe composite columns and an engineered lightweight fill embankment to satisfy the design criteria. The Letellier Bridge Project provided an opportunity to design and implement innovative geotechnical engineering solutions.



Photos submitted by KGS Group in association with Dillon Consulting

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AWARD OF MERIT – INFRASTRUCTURE/TRANSPORTATION

Project Name: South Caswell Concept Plan
Firm: MMM Group Limited
Client: City of Saskatoon



MMM Group was retained by the City of Saskatoon to prepare a concept plan for the re-use of the City of Saskatoon's current transit facility. This project included a review of background materials to provide information on the Caswell

Hill Community and the existing transit facilities and surrounding area. The key project tasks included: community and stakeholder participation, review of existing infrastructure and service capacities, review of current neighbourhood park

space deficiencies, consideration for the potential adaptive re-use of the site, review of previous recommendations from planning and policy documents, capital cost estimates and development of a land use concept plan.



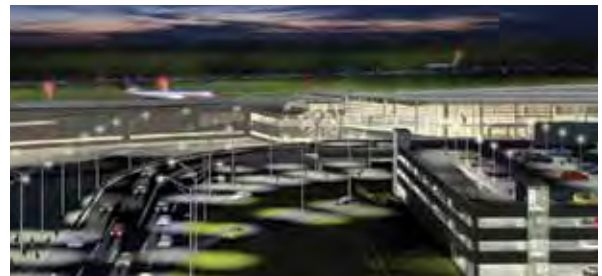
Photos submitted by MMM Group Limited



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AWARD OF MERIT – INFRASTRUCTURE/TRANSPORTATION

Project Name: Active Transportation Infrastructure Stimulus Program Coordinating Consultant

Firm: Stantec Consulting with Marr Consulting Services and Scatliff+Miller+Murray

Client: City of Winnipeg Public Works Department



Stantec, with Marr Consulting Services and Scatliff+Miller+Murray, provided Coordinating Consultant services for 37 Active Transportation projects for the City of Winnipeg's \$20 million Infrastructure Stimulus Program. Engineering services included:

research, planning, public consultation strategy, design development, design consistency review, and program delivery strategy development. The program was an outstanding success, with the majority of projects falling within the aggressive timeframes

of the original project schedule, significantly improving the accessibility to safe facilities for alternate modes of transportation and bringing the City of Winnipeg's design standards for Active Transportation facilities to the forefront of the industry.



Photos submitted by Stantec Consulting with Marr Consulting Services and Scatliff+Miller+Murray

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AWARD OF MERIT – ENERGY RESOURCE DEVELOPMENT



Project Name: Boundary Dam Spillway Upgrade
Firm: KGS Group
Client: SaskPower

A Dam Safety Review of the Boundary Dam Power Station identified major concerns with the capacity and condition of the spillway, originally built in 1956. The \$50 million spillway upgrade consisted of replacing the entire concrete spillway, installing over 400 post-tensioned

anchors, improving the subsurface drainage system, and upgrading the erosion protection. The use of post-tensioned anchors to satisfy three design requirements; geotechnical slope stability; prevention of foundation swelling; and resistance to hydraulic uplift forces, while

maintaining the flood discharge capability of the spillway during construction, was an innovative and cost-effective solution. The Boundary Dam Spillway Upgrade extended the life of the safe discharge capacity of the spillway at the largest generating station in Saskatchewan.



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Photos submitted by KGS Group

AWARD OF MERIT – MUNICIPAL & WATER TECHNOLOGY

Project Name: Cartier Regional Water Co-op – System Upgrade
Firm: Dillon Consulting Limited
Client: Manitoba Water Services Board



Dillon performed an analysis of the Cartier Regional Water Co-op water system comprised of an existing river intake, water treatment plant, transmission pipe network, pump stations and remote system reservoirs. System components

were identified that required upgrading to meet 20 year design service needs. Using an enterprise risk based approach, critical water supply quality and quantity system upgrades were identified, with the Manitoba Water Services Board. A se-

quence of design and construction contract to mitigate the system limitations were developed. The approach included fast track major equipment pre-purchase, with concurrently running general installation contract.



Photos submitted by Dillon Consulting Limited



Engineering Action Award

WILLIAM (BILL) H. BRANT, P. ENG.

Bill Brant started his distinguished career in Engineering when he graduated from the University of Manitoba with a B.Sc. in Civil Engineering in 1973. He started work right after graduation with Toman Engineering in Boissevain, Manitoba. After a brief time he moved to Manitoba Water Resources for several years and then on to the Manitoba Water Services Board where he worked for six years. He then joined his long-time associate Alf Poetker at Poetker Engineering; which was later acquired by Cochrane Engineering in 1988 where he rose to the position of Vice President in charge of the Manitoba Region. Cochrane Engineering was acquired by GENIVAR in 2007 and Bill is currently Vice President, Manitoba Region for GENIVAR as well as sitting on the National Executive Committee. He also continues with his role as a Senior Water Supply Specialist for GENIVAR.

Bill's primary areas of practice include water supply, treatment, storage, pumping and distribution; Wastewater collection, pumping and treatment; Solid waste disposal and; Roads and drainage. Throughout his career Bill has been involved in utility rate planning and feasibility studies as well as the design, contract administration, commissioning and operation of projects – including waterworks, sewerage, drainage, solid waste disposal, roads, airports and public buildings. Bill has specialized experience in the fields of water source development, treatment and distribution.

Bill has played a key role in the development of regional water systems in Manitoba since 1986 and has won several awards including:



(L-R) Douglas Buchanan, Acting Dean of Engineering, University of Manitoba, Mark Whitmore, Dean of Science, University of Manitoba, Bill Brant, P.Eng. GENIVAR, Alfred Poetker, P.Eng. GENIVAR

- The George Warren Fuller Award from the American Water Works Association
- The H.C. Lindsten Award from the Western Canada Water & Wastewater Association
- He has twice been awarded a Service Award from the Western Canada Water & Wastewater Association.

Bill has been a very active member of ACEC-Manitoba serving in a number of capacities including President, Director and Manitoba Representative to ACEC - Canada. His other profession affiliations include: APEGM, Member and Past Chair of AWWA (American Water Works Association), Member and Past President of WCWWA (Western Canada Water and Wastewater Association, Designated Representative and Past Director of CWWA

(Canadian Water and Wastewater Magazine) and Founder and long-time Editor of *Western Canada Water Magazine*

Bill has always strived for a balance between his professional and personal life. He is a very dedicated family man to his wife Bertha, daughters Ruth and Jessica and sons William and Joseph. He maintains a strong volunteer commitment to The Parish Church of St. Luke, having served in many capacities in the Church organization. He has shown commitment to his community in many ways at both the local and provincial level.

Bill always sets a great example in community and professional involvement to his peers and staff and is always looking for ways to encourage and support this involvement in others.

“Bill always sets a great example in community and professional involvement to his peers and staff and is always looking for ways to encourage and support this involvement in others.”

Rising Star Award

OWEN VAN WALLEGHEM, P.ENG.

Owen Van Wallegghem attended Carleton University in Ottawa where he majored in Mechanical Engineering and graduated in 2005 with a Bachelor of Engineering on the Dean's list. He arrived in Winnipeg in 2006 and started working full time at AECOM in the Water department as a Mechanical Engineer in Training for the Winnipeg Water Treatment Plant project. Since 2007 Owen has been participating in and playing a major role in the design of water and wastewater treatment systems in the industrial and municipal markets for AECOM. Owen celebrated receiving his Professional Engineer designation as of January 1, 2011.

As a young Professional Engineer, Owen values his position in society. Because his work as a Water/Wastewater Engineer has a direct effect on public health, safety and the environment, he understands the importance of maintaining a high professional standard when performing his job. Owen's understanding of the Engineer's role in society is also supported by his reasons for wanting to get into the profession. He believes that Engineering provides a great opportunity to apply his skills and talents to do something useful for the community through building and designing.

In addition to his work at AECOM, Owen is also involved in volunteering for professional events that raise awareness of Consulting Engineers as well as in his local community. Owen is actively involved in several public affiliations including being a member of the Association of Professional Engineers and Geoscientists of Manitoba

(APEGM) Public Awareness Committee since 2008 and serves as the liaison to the Engineering Innovation Challenge Committee for the annual Rotary Career Symposium. Owen has also been a member of the American Water Works Association, Western Canada Section Education committee since 2008.

Owen has been a volunteer with the ACEC-Manitoba Young Professionals Committee since 2009. His role previously involved participating on the Outreach Subcommittee as the APEGM liaison and is the Chair Elect of the Young Professionals Committee for the 2011/2012 year.

Outside of his engineering related volunteer work, Owen is involved in his local Habitat for Humanity organization and has also volunteered as the AECOM Team Captain for the annual Dragon Boat races fundraiser for the Canadian Cancer Society of Manitoba.



Owen Van Wallegghem has demonstrated his professionalism and dedication to engineering as exemplified by his work on many projects and through his volunteer activities.

“Owen Van Wallegghem has demonstrated his professionalism and dedication to engineering as exemplified by his work on many projects and through his volunteer activities.”



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Left: Winnipeg's active transportation network
Right: Bike path/sidewalk along Bison Drive

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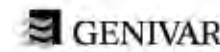
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Message from the YPC Chair

Owen Van Wallegghem, P.Eng.

I would like to start by stating how excited I am to take on the role of Young Professionals Committee (YPC) Chair, and to serve as the YP representative on the ACEC Manitoba Board of Directors for the next two years. The YPC has thrived under the leadership of Beth Phillips since its inception, and the amount of effort and dedication that she brought to her role has been inspiring. I am honoured to follow in her footsteps.

In addition to Beth, Kyla Kirk, Amanda LaCoste, Mark Warkentin, and Kim Yathon have been members of the committee since its inaugural gala, and the amount that they have accomplished in this time has been astounding. Sadly, we have had a couple of committee members leave over the past year, but we have been fortunate to bring on some talented new YP members to help fill

the vacancies. Dustin Warelis, Michelle Globush and Jomar Manzano have not been with us very long, but their ideas and contributions have already had a positive impact on the YPs in Manitoba. ACEC Manitoba's Executive Director, Shirley Tillett has also been a key part of the YPC's success. Her guidance, ideas, and behind-the-scenes contributions to the group have been invaluable.

The YPC has been in Manitoba for just over two years, but in this time it has had a positive effect on the careers of many YPs, and on the industry as a whole. As a result of this ongoing success, my plan for the next two years is to have the committee operate as it has been. Any changes will likely be minor, with the intent of developing and enhancing the great work already being conducted by the YPC. We will continue to offer monthly educational and networking events, host the annual YP Gala event,

manage the services and activities for students, including the mentorship program with the University of Manitoba Engineering Society, and



publish the monthly newsletter. With the support of the Image Committee, we plan to expand the YPC's web presence. We also intend to issue another YP survey this year to give our members an opportunity to have a say.

One change that I am excited to announce is an update to our definition of an ACEC Manitoba YP. The former definition was "*any engineer, geoscientist, engineering or geosciences technologist or technician working for a member company with up to 10 years of experience in their applicable field*". We all know that the success of our firms depends on a lot more than just the work of the engineers, geoscientists, technicians and technologists. Therefore, in an effort to be more inclusive and to align with the ACEC Canada and FIDIC definitions, as of August 2011, the new YP definition is "*any employee of an ACEC Manitoba member firm who is under the age of 35 or who has up to 10 years of experience in his/her field*". With this change, any YP at a member firm with an interest in the business of consulting engineering and a desire to develop their career is welcome to take advantage of the opportunities that the YPC has to offer.

Again, I am honoured and excited to be taking the helm of one of ACEC Manitoba's most active and energetic committees. I look forward to continuing work with this great team, and to seeing many of you at our events. 🍷

"The YPC has been in Manitoba for just over two years, but in this time it has had a positive effect on the careers of many YPs, and on the industry as a whole."

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The value of supporting YPs – A Senior Manager’s perspective

Ron Typliski, P.Eng. – Vice President, AECOM & ACEC-MB Past Chair



Ron Typliski
Vice President, AECOM

As a senior manager, I believe it is very important to support and encourage our young professionals to participate and get involved with YP programs as I see many personal benefits to them and to their employers.

As an employer, YP programs offer opportunities for our young people to network with their peers, and represent

our industry and companies at social events, career fairs, etc. As well, YP programs provide opportunities for learning, professional development and dialogue with more senior professionals.

A YP program can be an excellent vehicle for senior management to obtain feedback from their YPs on their needs and on their aspirations. Most importantly, a strong YP program can be a great

asset in attracting, retaining and developing our young talent.

Our young people are our future and we must do all we can to engage them and retain them in our industry. 🌟

What is the Young Professionals Committee?

The ACEC Manitoba Young Professionals Committee (YPC) was created in 2009 and aims to enhance the growth and evolution of the consulting engineering industry by promoting and empowering the development of young professionals’ careers within the industry.

The YPC achieves its mission by:

- providing young professionals with a greater understanding of the consulting engineering business and ACEC Manitoba’s role in it
- providing networking, mentoring, educational, and career growth opportunities for young professionals
- providing young professionals with the opportunity to actively contribute and become an integral part of the industry and ACEC Manitoba
- being a link and progression from the student ACEC Manitoba chapter to professional involvement in ACEC Manitoba, and

- communicating and coordinating with other similar organizations in other jurisdictions to exchange ideas, find mutually beneficial opportunities, and grow and improve the consulting engineering industry

Since officially launching in October 2009, the YPC has progressively met these goals by hosting 10 educational and networking events per year, presenting at the University of

Manitoba, and providing a link between YPs and the ACEC Manitoba Board. The YPC has also continued to foster relationships with other professional organizations in Winnipeg and across Canada.

The YPC defines a young professional as any employee of an ACEC Manitoba member firm who is under the age of 35 or who has up to ten years of experience in his/her field. 🌟

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Young Professionals Committee events

August 2010: Baseball Game

On the evening of Wednesday, August 11, 2010, the ACEC-MB Young Professionals (YPs) held a networking event at Hu's on First Asian Bistro patio overlooking right field at Canwest Global Park. Approximately 45 YPs showed up to relax and enjoy a delicious three-course dinner while watching the Winnipeg Goldeyes battle the Gary SouthShore Railcats. Despite the Goldeyes losing to the Railcats by a final score of 8-1, many YPs stayed until after the game to check out an amazing fireworks display courtesy of world-champion Archangel Fireworks.

September 2010: Breakfast Seminar

On September 14, 30 YPs attended the Contracts and Liability breakfast seminar. Darren Peters, COO of Oldfield Kirby Esau Insurance Brokers,



led us through the Capital Architects case study. In the case study, a project goes awry and ends in litigation.

The YPs in attendance learned about contract language, limits of liability, and what your insurer can and can't do during litigation. YPs also learned about the different things that can make a project go sour, and what steps can be taken to mitigate issues when they arise.

October 2010: 2nd Annual Gala

The ACEC-MB Young Professionals Committee (YPC) celebrated a very successful first year on the evening of Tuesday October 12, 2010 with the annual Gala Dinner. Over 150 young professionals, managers and supporters gathered in one of North America's most energy efficient buildings, the Manitoba Hydro Building. Attendees were serenaded by soothing jazz music while enjoying the sumptuous hors d'oeuvres and the striking design of one of Winnipeg's newest landmarks.



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Dr. John Boyd, P. Eng., Ph.D. was the focus of the evening. Consulting engineers and clients alike were held in rapt attention as he gave an inspiring presentation on how the work we do as engineers is essential to creating a more sustainable future, and described the challenges we will face as we strive for this much needed change in direction.

**January 2011:
Pub Night with John Gamble**

The ACEC-MB Young Professionals Pub Night was held on Wednesday January 26, 2011 at the Kings Head Pub in downtown Winnipeg. The evening was a success with approximately twenty YPs in attendance to relax and socialize over drinks and appetizers. For the second consecutive year, Mr. John D. Gamble, CET, PEng., joined us as our special guest. John's message encouraged young professionals to develop their skills beyond the technical aspects of engineering and emphasized the importance of business side of consulting engineering.



**March 2011:
Breakfast Seminar & Hockey Night
Breakfast Seminar**

The ACEC-MB Young Professionals Committee (YP) held its third breakfast seminar on March 3, 2011 at the APEGM office. Mr. Dean Stewart, P.Eng., presented on The Airport Redevelopment Project at the Winnipeg James Richardson Armstrong International Airport. The event was a great success with more than 30 young professionals in attendance.

Hockey Night

On the evening of Wednesday, March 30, 2011, ACEC-MB Young Professionals (YPs) attended a networking event at the MTS Center. Approximately

36 YPs showed up to relax and enjoy a delicious buffet-style pasta dinner before watching the Manitoba Moose battle and beat the Rochester Americans live on home ice.

**April 2011:
"...Without Borders" Networking Evening**

On April 28, 2011, the ACEC-MB Young Professionals (YPs) and the Young Associates (YAs) gathered at the APEGM office for an evening of mingling, great appetizers and two presentations from EWB and Kickballs for Kids.

The first speaker was Chris Thompson, the founder of Kickballs for kids. Chris discussed the trip he took to Africa and how it changed his life. What started as a gift to children in the villages he visited turned into a charity where he raised funds to purchase additional soccer balls, and delivered 1132 soccer balls to children in the different villages by the end of his trip.

The next speaker was Adam Fraser-Kruck, a computer engineer with MTS Allstream. Adam had volunteered with EWB, where he concentrated on finding better uses for \$100,000 than spending it to construct 20 wells in Africa. His research was used to start the 'Raise Money for an African Child Spreadsheet' charity, which all the wells in Africa and uses this data to find the best places to drill new wells.

May 2011: Breakfast Seminar

On Wednesday May 25, 2011, young professionals from consulting engineering companies gathered at the APEGM office to listen to Ray MacIsaac share his knowledge and experience on public speaking. The topic of Ray's seminar was 'How to Not put your Audience to Sleep.'

Ray provided examples of things one should not do while public speaking, and provided tips on giving effective presentations. These tips focused on storytelling, content, visual aids, audience and room preparation, and delivery and practice. Additional advice included facing your audience, and avoiding long run-on sentences and monotone voices.

June 2011: Leadership Forum

On Tuesday July 19, 2011, nearly 30 ACEC-MB young professionals gathered at Luxalune Gastropub to attend a Leadership Forum featuring three leaders from various ACEC Manitoba member firms. Ralph Kurth (President, Teshmont Consultants LP), Garry Bolton (President, SMS Engineering Ltd.), and David Krahn (Partner, Dillon Consulting Ltd.) were on hand to provide valuable leadership advice, and divulge the story of how they achieved the leadership positions that they currently occupy.

Ralph focused on what employees, regardless of position within a company, could do to show leadership. Garry described the different styles of leadership, and explained which styles are suited to different positions. Finally, David Krahn discussed the common traits that leaders share. ☺

All photos submitted by YP Committee

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Jeff O'Driscoll, P.Eng. joins our new Winnipeg office as Branch Manager. Jeff has over 20 years of experience in municipal engineering, project management, and construction. He specializes in design, construction management, and contract administration of water supply, treatment, and distribution systems, and is a leader in assessing climate change vulnerability on municipal infrastructure.

Jeff's experience includes projects across Manitoba and Canada, as well as Central and South America.



Ken Anderson, P.Eng. joins our new Winnipeg office as Water Group Manager. Ken has over 14 years of experience in a variety of engineering projects, from environmental and utility studies to

design and contract administration on municipal and water projects. He specializes in design and construction management of water treatment and pumping facilities, and has worked on small and large projects for communities across Manitoba.



Darcy Robinson, P.Eng., LEED AP joins our new Winnipeg office as Electrical, Instrumentation & Controls Group Manager. Darcy has 12 years of experience including feasibility studies, design, contract administration, and project management for

projects in the commercial, industrial, institutional, recreational, residential, and water and wastewater sectors. Darcy has participated in power quality projects including short circuit and coordination studies, power factor correction, harmonic filtering, lightning protection, and critical power systems.



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13th Annual Golf Tournament

The Association of Consulting Engineering Companies – Manitoba (ACEC-MB) held their 13th annual golf tournament on Tuesday May 31, 2011 at Larters at St. Andrews. This year's tournament had an attendance of 111 registered golfers. The weather forecast for the day was bleak, with the temperatures to drop from 15C to 7C and the winds to blow 70 to 90 km/hr; the

organizing committee was concerned that the tournament would be canceled. That morning at 9:00 am the skies cleared and the temperatures climbed to around 17C. The forecasted weather held off until after the tournament when all the players had made it into the banquet room for dinner and prizes. The winning team is shown with the trophy below (Roy Dansen, - Lakeside Process Controls, Brian Rocan – Koch Fertilizer Canada, Blair Lyons – Koch

Fertilizer Canada and Dan Campbell – Husky Energy).

The ACEC-MB would like to thank the players, prize sponsors, hole sponsors and event sponsors for making this event successful. This year ACEC is proud to donate \$2245 to Winnipeg Harvest from this year's tournament proceeds (cheque presentation shown in photo below). Watch our website for details of next year's tournament



ACEC MB Golf committee June 28 2011 Harvest cheque presentation



Winning Team



Photos submitted Golf Committee

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That's where our agency comes in. We are dedicated advisors providing solution-oriented service—risk management guidance, insurance coverage placement, training, contract reviews, and education programs. You can benefit from our experience and local expertise with the unparalleled resources from XL Insurance. Together, we can help you make good decisions and improve your firm's risk management practices:

Expert claims handling by professional liability specialists who understand that preserving your reputation is just as important as protecting your assets. You can talk to knowledgeable, experienced people who go to work for you from pre-claims situations through ultimate resolution.

Specialty underwriting. We gain a thorough understanding of your firm and know the important questions to ask so we can deliver customized insurance solutions.

Industry leading education developed by XL Insurance and backed by 30 years of front-line claims experience to positively impact behavior. You get useful courses, seminars and tools to help improve your risk management practices, including *The XL Insurance Contract Guide for Design Professionals: A Risk Management Handbook for Architects and Engineers*. This relevant resource provides useful and practical advice.

And there's peace of mind knowing you have a trusted partner who anticipates your needs by keeping up with the A/E industry. We understand the intricacies of protecting your practice, assets and reputation. You can be confident in our knowledge.



Oldfield Kirby Esau Inc.
200-330 St. Mary Avenue
Winnipeg, MB R3C 2L2
Tel: 204-943-1441
Fax: 204-957-5561
www.oldfieldkirby.com

Contact: Darren Peters, President & COO
Tel: 204-943-1441 or email: dpeters@oldfieldkirby.com

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