

Manitoba Consulting Engineer

Official publication of the Association of Consulting Engineering Companies - Manitoba

VOLUME 4 · MMXIII



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Steve Reaburn, P.Eng.

Exciting year ahead

The coming year promises to be very exciting and busy at ACEC Manitoba and I am honored to be elected as the 36th President. The Board and Committees have been very active in taking our initiatives to higher and higher levels and we are very fortunate to have so many individuals stepping forward and volunteering their valuable time. Without their dedicated and extraordinary efforts many of the important projects we are working on would not be possible.

When I look back to when I was first elected to the Board, I am astounded by how many challenges have been overcome, and how the Associations goals have expanded to deal with the ever-changing business climate we live in.

This year will include a very special event with Winnipeg hosting the Association of Consulting Engineering Companies – Canada Summit and National Convention this spring between June 19 and 24. This will be a rare opportunity for Manitobans to easily attend the summit and network with peers from coast to coast. We are hoping to be well represented by our local engineering community.

We were very excited to note that on June 1, 2013, the British Columbia government passed Bill 34, a new Limitation Act. The new Act reduced the ultimate limitation period for civil actions from 30 years to 15 years. The ACEC – MB board has been striving to reduce the ultimate limitation period in Manitoba for years. Our efforts have been falling on largely deaf ears and we have been struggling to gain any momentum. We are planning on trying to leverage the BC success story to gain a more sympathetic audience in

Manitoba. The Manitoba Association of Architects (MAA), the Certified Technicians and Technologists Association of Manitoba (CTTAM) and representatives from the insurance industry, have been joining us in our efforts.

Many of you are likely aware that ACEC – MB sent out a survey to members recently to find out where our members would like us to focus our efforts. Yes, I also groan when YET another survey drops into my inbox, but this one directly benefits our members and it would greatly benefit us if you could take a moment and complete it. For those firms and members not represented on the board it is a chance to have your good ideas heard and to influence the direction of future initiatives.

This year is the 15th anniversary of the Annual Awards of Excellence Gala and it is promising to be an excellent event! This year we would like to have a record number of project submissions. We all do great work on exciting projects and this is an opportunity to showcase them at the Gala. They will also be included in the Annual Manitoba Consulting Engineer Publication that is sent to all our clients.

The Professional Development Group got off to a great start last year and have another very exciting program planned for this year. I encourage all our member firms to have staff attend some of the sessions.

Our Young Professionals have also been very active with their upcoming



Gala, establishing ACEC – MB on LinkedIn, the U of M Mentoring Program and many more initiatives. It is inspiring to see so many young people in our industry take such a strong interest in the Association.

Another exciting recent development is the creation of a new committee formed for Women in Consulting Engineering. The committee is just now getting up and running and will have a mandate shortly, stay tuned!

There are so many exciting committee activities and initiatives that I could easily keep writing almost indefinitely. I am informed that I can only fill my allotment of space in the Manitoba Consulting Engineer Publication and I am unable to individually thank and acknowledge every committee and initiative that certainly deserves recognition.

In closing, the engineering business climate is improving and with it the need for volunteers in the association. I encourage you to step forward and join us in building for the engineering future. 🌟

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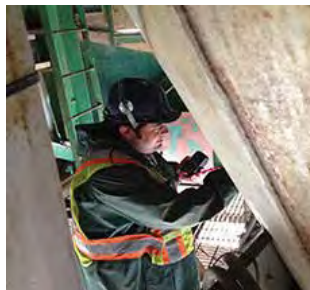
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Jason Mewis, P.Eng.
Chair, ACEC-Canada

Delivering value for our members



I am privileged to be taking over the leadership of such a great organization as the Chair of the Association of Consulting Engineering Companies - Canada (ACEC) Board of Directors for the year 2013-2014. This organization has accomplished so much for its membership; it embraces new ideas, and puts member needs at the top of its agenda.

In recent years, ACEC-Canada has matured and taken on many exciting initiatives that have contributed to and supported the consulting engineering industry. ACEC-Canada's vision is a future where the consulting engineering industry is more successful, trusted and sustainable. This vision is achievable and worth striving for.

Our current strategic plan is founded on four long-term goals for our future:

- We will be widely recognized trusted advisors to society.
- We will have a healthier business environment for consulting engineering.
- We will be seen as valuable to firms that provide services to both private and public sector clients.
- We will support the development of leaders for consulting engineering firms.

Over the coming year our board plans to focus on three key strategies:

Engaging private sector organizations

Firms that provided services to private sector clients represent a large part of the consulting engineering industry across Canada. Our goal in 2013-2014 is to focus on some new initiatives to add more value to that sector and try to increase participation and membership of these firms with ACEC.

Engaging & empowering our membership

We have made great strides in this area in recent years, but we can never sit back on this subject. We will continue to improve how we communicate with our members. As technology and tools are rapidly changing, we are all becoming increasingly inundated with information through many different channels. Managing that information effectively is one of the biggest challenges facing business operations today. Our challenge as ACEC is to get important information through the clutter to our members. We will continue to work to ensure that the messages we deliver to members reinforce the value we provide as an association and hopefully inspire more to become involved in our initiatives and events.

Delivering and demonstrating value

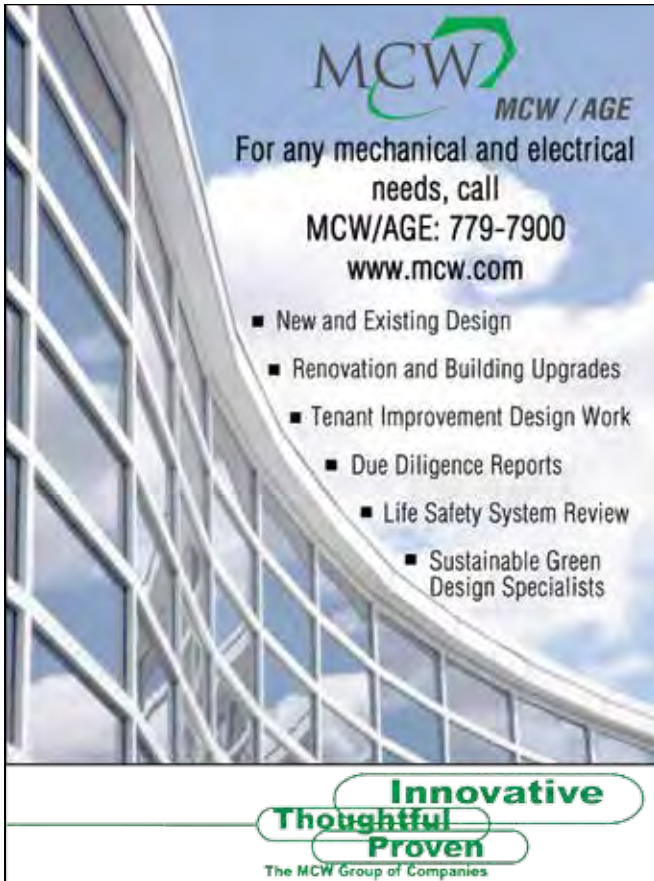
ACEC takes pride in not only delivering useful and relevant services and products to our members, but also in the regular evaluation of that value. In the last year, we have implemented a new governance model that is allowing our board to be more strategic and forward thinking. We want to know what our members want and expect from us, we want to be able to focus on issues that our members may not even be aware of yet, but nonetheless they are going to have to manage. We know that now more than ever businesses need to make spending decisions based on a return on investment and we will always look to prove that membership with ACEC is good value.

Overall, we will be working to strengthen our member engagement and through engagement, we will work to understand what is important to your businesses. We want to ensure that all members see value in their membership with our association.

We have a strong governance model, a solid strategic plan and the drive to make it reality. I look forward to the challenges and opportunities that will come this year, and to meeting our members across the country as we work towards the best consulting engineering industry possible. ☺

The above remarks are an excerpt of Mr. Mewis' inaugural speech to ACEC members at the association's Annual General Meeting, June 21, 2013



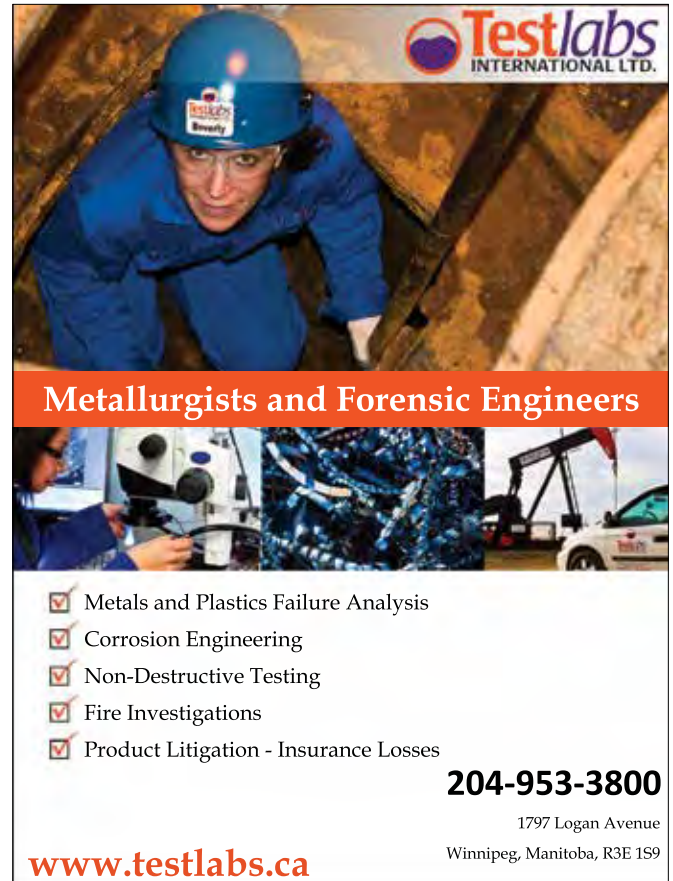


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John Gamble, P.Eng.
ACEC-Canada President

Infrastructure and training are essential investments

Q&A with John Gamble, P.Eng., President of ACEC-Canada

How are changing demographics affecting the consulting engineering industry?

The industry has an acute demographic challenge and is facing something of a demographic hole. Back in the recession of the early 1990s, there was significant contraction, leading to many lost jobs and diminishing enrolment in engineering programs. This has created a gap in the number of senior staff available to take on leadership positions. It's quite a challenge, as there are fewer people than needed to mentor junior staff and facilitate knowledge transfer.

What are engineering firms doing to address this challenge?

This is a capacity problem that we're working through. The current leaders of firms are asking junior staff to take on more responsibility, earlier in their careers. There's also a focus on professional development. You know, many senior managers remember the recession all too well. And unless people have confidence in the business environment, they can be reluctant to invest in recruitment and in training and retaining employees – be they junior or senior, domestic or foreign trained.

Does the current business environment inspire confidence?

Well, we have a commitment to a 10-year infrastructure program with the renewal of the Building Canada Fund in the 2013 budget. It was renewed for 10 years, which was quite significant – that's a long horizon for a government program. This will help enormously in giving firms confidence to invest in employee training and development. The continuing strength of our resource sector is also very important.

Your organization advocates for investments in infrastructure. Why is this important?

Public infrastructure benefits everyone, and investing in infrastructure is vital to our country's prosperity. We tend to think of infrastructure in terms of individual projects – a road here, a bridge there – but it's more than that. Collectively, infrastructure is what enables economies and connects communities.

Can you offer an example?

Take the Detroit-Windsor border crossing. The trade that crosses the Ambassador Bridge on a daily basis is equivalent to the entire US trade volume with Japan. That shows the sensitivity and vulnerability of infrastructure. If that bridge was unavailable to us for whatever reason, you can imagine the economic consequences. Similarly, in the resource sector, companies need to access resources, extract them in a socially and environmentally responsible manner, and get them to market. That can't be done without infrastructure. Governments at all levels are starting to recognize that we need to see infrastructure as an investment rather than an expense.

What role do engineers play in infrastructure development?

Engineering is a critical part of the life cycle of any asset in terms of cost, durability, lifespan and long-term operating and maintenance costs. Yet on any individual project, engineering costs represent less than one per cent of total life-cycle costs and five to ten per cent of total capital outlay.

As much as infrastructure is an investment in prosperity, engineering is an investment in the long-term success of the project. There is temptation in times of financial austerity to try and cut costs up

front. However, making the investment in the conceptualization and engineering design of projects can generate significant savings over the life of the project.

Any last thoughts?

Canada is respected globally for the capacity and expertise of its engineers. We're the world's fifth-largest exporter of engineering services. Our reputation is built on doing really great work, and that's what's given us influence on a global scale. 🇨🇦

About ACEC-Canada

The Association of Consulting Engineering Companies-Canada (ACEC) is a not-for profit organization that has been the voice of Canadian consulting engineering companies since it was founded in 1925.

ACEC-Canada represents the business interests of companies that provide professional engineering services to both the public and the private sector. Its nearly 500 members are independent consulting engineering companies that are responsible for planning, designing and implementing all types of engineering projects, and providing independent advice and expertise in a wide range of engineering-related fields. ACEC-Manitoba is one of twelve provincial and territorial member associations of ACEC-Canada.

This article originally appeared on June 6, 2013 in a Globe and Mail special information feature produced by Randall Anthony Communications. Reprinted with permission.

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HOW CAN CONSULTING FIRMS GET THE TALENT THEY NEED?

The Faculty of Engineering at the U of M has effective opportunities to connect with our best and brightest

With the construction of mega-projects, the renewal of our infrastructure, the competitive pressures on our manufacturing, and the unique challenges of northern development, engineering has never played a more important role in our province than at the present. These demands have translated into a high demand for the graduates of the Faculty of Engineering at the University of Manitoba. There was a time when a company could simply recruit from the graduating class – that time is now past.

Thanks to a revitalized CoOp/IIP office and more flexible work time placements, many of our students have the opportunity to work in industry and have job offers by the end of third year. Pro-active companies are now taking advantage of opportunities to hire CoOp/IIP students and get in front of student groups by participating in the well-attended Monday Night HIRED (Helping Industry Reach Engineers Directly) events organized by the students and the CoOp/IIP office.

In addition, over the last few years, the Faculty, particularly through the Chair in Design Engineering, has been developing mechanisms to more directly include the “practise” of engineering into our undergraduate programs. We have had some marked successes, perhaps the most visible being the relationship that has developed between the aerospace sector and the Faculty. This interaction was founded on our Engineer-in-Residence (E-i-R) program. We are eager to explore approaches that could engage the consulting sector, either in parts or as a whole, in a similar arrangement. We believe that we are now moving toward a mechanism that may achieve this objective for the part of the consulting industry involved in building systems design and construction.

We are currently piloting a new way of teaching steel design in our Civil Engineering program. Rather than simply describing various steel designs and working through isolated problems, we have enlisted the services of an architect to develop a set of drawings for a medium size, multi-use building (three stories: the first being office space, the second being a health club, and the third being residential). Students are provided with the drawings and the course is built around the development of the design for the steel structure of the building. We plan to use the same building in a concrete design course using the same method of having students develop the design based on the drawings. We are also exploring the possibility of using this same set of drawings as a basis of a heating/ventilating/air-conditioning course and as a basis for an electrical systems course. Finally, when all the designs are developed, we would like to use the designs as the basis of a construction/project management course.

This series of courses would greatly benefit from the involvement of professional engineers who are practising in the various areas. But what we would really like to see is a capstone design course that is based on a collection of student teams, under the supervision of a collection of practising consulting engineers (in the role of E-i-Rs), who develop a building design in a simulation of a real building project. Such a project

would involve at least four teams (structures, HVAC, electrical systems, construction) of four to five students with four E-i-Rs. We would also have a practising architect working with the project.

We believe that the involvement of ACEC Manitoba and its members is critical to the success of this proposal. Just as medical clinicians play a vital role in the training of doctors, we believe that practising engineers should play a vital role in the training of engineers. The resources for a project of this scope would be significant, primarily to cover the costs of the involvement of the E-i-Rs. These funds cannot come from existing university sources. Therefore, we are looking for partners from outside of the University.

One role of ACEC-Manitoba would be to help identify companies or groups of companies that are willing to participate and help fund the program. However, there is a second part to this proposal. If we can develop an E-i-R program with ACEC-Manitoba, we would like to establish a Consulting Engineering Liaison Committee to coordinate interactions between the Faculty and the consulting sector. The membership of this committee would include: an official representative of ACEC-Manitoba, the Dean of Engineering, the Associate Dean (Design Education) of Engineering, the Associate Dean (Research & Graduate Studies) of Engineering, Heads of the Engineering Programs, the Director of Coop/Internship Programs, and the E-i-Rs involved in the program. The Committee would meet three times a year. At these meetings the expenses related to the program would be reviewed, additional objectives for the program would be developed, and the industrial representatives would be provided the opportunity to make recommendations on curriculum issues including recommendations for



2013 Aero Team

specialized courses that may be of interest to industry.

One of the principal purposes for the Liaison Committee, and particularly the E-i-Rs on the committee, would be to promote employment opportunities within the consulting sector at all levels. This would involve organizing meet-and-greet events, making students aware of career opportunities, advising the companies on students who are available, arranging facility tours and generally promoting “futures in the consulting sector”. However, the committee would also act as a liaison between the faculty academics and the member companies to facilitate research on topics of mutual interest. Often when industrial problems arise that could benefit from input by academics, a company simply does not know how to pursue such opportunities. The E-i-Rs would act as go-betweens to facilitate research and development work on these problems.

Although the initial motivation for the Liaison Committee would be the ‘building project’, similar input would be useful throughout our programs, wherever a consulting discipline intersects with our undergraduate curriculum (virtually every subject we teach has such intersections). We have chosen to begin with the building project because we believe it would be the most straightforward to implement and would involve a large cross-section of the consulting sector.

In summary, whether it be through the EiR program, our CoOp/IIP office, or Monday Night HIRED, we are eager to pursue jointly with ACEC-Manitoba, opportunities to involve practising, consulting engineers in the training and recruiting of engineers for the consulting engineering sector. ☺



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Dean
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Douglas Ruth, P.Eng., Ph.D.
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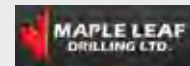
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Back row: Ahmed Shalaby, Randy Raban, Doug McNeil, Douglas Ruth,
Sitting: Lawrence Ferchoff and Dustin Booy
Missing from photo: Ruth Eden, Dave Ennis, Grant Nicol and B.J. (Bernie) Osiowy

ACEC-Manitoba would like to thank the judging panel for volunteering their time and expertise in support of this event.

- Dustin Booy**, P. Eng.
Manitoba Infrastructure and Transportation
- Ruth Eden**, P. Eng.
Manitoba Infrastructure and Transportation
- Dave Ennis**, P. Eng.
Small Pond Inc.
- Lawrence Ferchoff**, P. Eng.
Manitoba Hydro
- Doug McNeil**, P. Eng.
Manitoba Infrastructure and Transportation
- Grant Nicol**, C.E.T.
CTTAM President
- B.J. (Bernie) Osiowy**, P. Eng.
Consultant
- Randy Raban**, P. Eng.
Consultant
- Douglas Ruth**, P. Eng., Ph.D.
University of Manitoba
- Ahmed Shalaby**, Ph.D., P. Eng.
University of Manitoba

KEYSTONE AWARD WINNER



SMS ENGINEERING

Photo credit Douglas Little Photography



Category: Building Engineering
Keystone Award – Overall Winner
Winnipeg James Armstrong Richardson International New Air Terminal Building & Central Utilities Building Upgrade
Firm: SMS Engineering Limited
Client: Stantec Consulting Ltd.

This project encompassed the design of a new state-of-the-art air terminal building for the Winnipeg Airports Authority including a refurbishment of the airport campus central energy plant with new energy efficient equipment. The mechanical and electrical designers undertook a significant design process to achieve notable results in terms of mechanical and electrical efficiencies while maintaining the architectural elements of what has been termed ‘an iconic building.’ A complex, cascading heating and cooling system using innovative energy recovery and a robust, fully redundant electrical system make this facility unique of its type and possibly the first LEED recognized airport in Canada.

APPLICATION OF TECHNOLOGY

The Winnipeg Airport project incorporates a vast array of technologies that form part of a working international airport. Intense coordination between

multiple systems is part of this type of project. On the mechanical side, tertiary distribution pumping with remote and local stations, multi-mode ventilation systems, radiant heating and cooling in floor slabs, and a fully integrated direct digital control system for the building are just some of the technologies applied. On the electrical side, energy management systems with load shedding, full-capacity back up generators, boarding bridge and baggage handling interfaces were among the technologies incorporated.

The project represents an advancement of technology as well as the state of the engineer’s art and science. Conceptually, the building is a unique solution to passenger flows and a need to contain and hide any mechanical or electrical support systems. The architect’s attention to detail on this project was like none ever experienced by the overall design team, and as such every system was reviewed to ensure it was

aesthetically acceptable. As a result, typical solutions were generally not acceptable and unique approaches had to be taken. For example, the request for no obviously visible ventilation elements in the baggage claim area resulted in using a displacement ventilation scheme comprised of large custom made concentric circular diffusers atop the baggage carousels that are not obvious to the eye. Nonetheless, the very large volume of this space is effectively ventilated, heated and cooled only at the occupied elevation (not higher up). Similarly, public address system speakers are hidden in signage, but only at the typical elevation of a person’s ear.

SOCIAL/ECOMONIC/ ENVIRONMENTAL IMPACT

An international airport in a large city has tremendous impact on the community in which it is located. The Winnipeg Airports Authority reports that the airport



Photo credit Douglas Little Photography

project generated over \$1 billion in economic output and involved some 6,400 person-years of effort, including \$275 million in wages alone. Furthermore, the facility sets a tone for the calibre of the city, acting as its entryway and builds civic pride as a world-class 'iconic building'. Environmentally, the new air terminal building is a prime example of a high performing building, with its projected energy efficiency at greater than 50% above the Model National Energy Code for Buildings. In operation and commissioning, it has been observed that heating and cooling systems have not been required to operate at maximum capacity even on extreme weather days; the building appears to be performing better than expected.

COMPLEXITY

As noted, this was a complex project incorporating literally hundreds and hundreds of players. From the onset of design to opening was an eight-year process, involving multiple stages of design, intense reviews, and the coordination of

a massive construction site. This project has been described as one of the most difficult institutional building projects ever undertaken in Manitoba due to its complexity and time lines. Resolution of unforeseen construction issues added to the intensity and need for timely, accurate direction and resolution. While the site appears innocuous, the need to maintain an operating international airport around the construction site was a great challenge.

OWNER'S/CLIENT'S NEEDS

For the end product provided to the Winnipeg Airports Authority, the new air terminal building project was economical and cost-effective. While the final cost exceeded the original budget, mitigating circumstances, such as changes to US/Canada border crossing regulation and Winnipeg Airport Authority-instigated changes were the major drivers. The project appears to have exceeded the requirements and expectations of the Winnipeg Airport Authority and while exceeding the contract schedule, the



Photo credit Douglas Little Photography

Authority was able to deal with the extension with no great impact to day-to-day operation. The New Air Terminal Project advanced the science of project management in a unique manner. A large day-to-day operations management group was formed by the Authority to oversee all design and construction task. At peak capacity, the team comprised some 50 people, each dedicated to overseeing some aspect of the project. Weekly coordination meetings and an extensive task record and document data base allowed for overall coordination of the massive scope of work undertaken for this project. As such, quality management principles along with risk analysis, schedule analysis, and financial analysis were applied on a daily basis.



Photo credit Douglas Little Photography



Photo credit Gerry Kopelow

JUDGES' COMMENTS

This project received an award of excellence for its demonstration of solutions for electrical and mechanical engineering systems that had to provided a minimum of risk for high usage while at the same time being non-intrusive and esthetically pleasing.

SMS ENGINEERING

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KEYSTONE AWARD & AWARD OF EXCELLENCE

Winnipeg James Armstrong Richardson International New Air Terminal Building & Central Utilities Upgrade

AWARD OF MERIT

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AWARD OF EXCELLENCE



The Rankin Inlet Mens' Correctional Healing Centre is a 48-person High/Medium/Low Security correctional Centre in the community of Rankin Inlet, Nunavut. The single storey facility, with a floor area of approximately 3,000 square metres was constructed at a cost of 30 Million Dollars. The facility includes inmate accommodations, program and educational spaces, self-sufficient kitchens and stand by electrical generation systems. There are both emergency and backup systems included. Special high efficiency correctional grade windows and security systems were developed specifically for this project.

Category: Building Engineering
Rankin Inlet Mens' Correctional Healing Centre
Firm: Accutech Engineering Inc.
Client: Government of Nunavut



JUDGES' COMMENTS

The judges chose this project for an award of excellence for its application of technology and project management. The Healing Centre employed an impressive combination of unique building materials that were selected specifically for a secure facility in the harsh, remote environment of Rankin Inlet. Working in Canada's north presents a distinct challenge not only in working conditions, but also project management, particularly the coordination of material delivery in the restricted seasonal window for sealifts.



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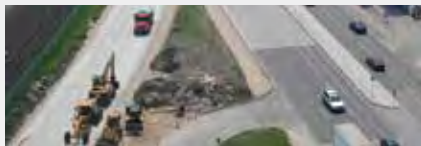
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AWARD OF EXCELLENCE



On April 8, 2012, Winnipeg's first rapid transit facility, the Southwest Transitway, opened for service. The Southwest Transitway is a high-speed roadway for buses, physically separated from the regular street system. Designed and constructed during 2009-2012 by Dillon Consulting, this initial stage of the transitway includes a 3.6 km grade-separated busway, three highly-

developed stations, a tunnel beneath the CN main-line, a bridge over a major arterial roadway, and active transportation facilities. The rapid transit routes use the transitway in combination with other transit priority measures and real-time passenger information systems to provide service that is fast, reliable, comfortable, and convenient, offering one-seat trips for most passengers.



Category: Infrastructure/Transportation
Awards of Excellence
Winnipeg's First Rapid Transit Corridor - Southwest Transitway
Firm: Dillon Consulting Limited
Client: City of Winnipeg



JUDGES' COMMENTS

Dillon Consulting Limited provided an exemplary level of service throughout the planning and construction of Winnipeg's First Rapid Transit Corridor. The judges noted that the transit and transportation planning included the complexity of the tunnel and Osborne station design and phasing. The skew angle of the Osborne Station Bridge and the small project footprint presented additional challenges to the design team under stringent financial controls.



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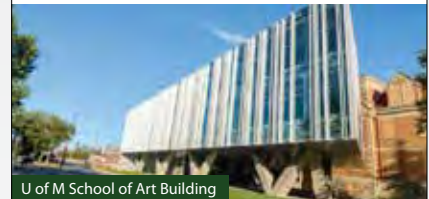


Category: Infrastructure/Transportation
Disraeli Bridges Project
Firm: Tetra Tech
Client: City of Winnipeg

JUDGES' COMMENTS

An Award of Excellence was given to this project for Tetra Tech's demonstration of the high level of engineering expertise needed to complete the Disraeli Bridges Project. The level of quality management, the use of unique pre-cast, posttensioned segmental concrete forming system for the river piers and design decisions based on life cycle cost and constructability considerations all clearly demonstrate the project team's dedication to a quality end project. Being able to complete this project with zero impact to traffic during business days was truly remarkable.

The Disraeli Bridges Project consisted of reconstruction and relocation of approximately two kilometres of major urban arterial roadway, 20 vehicular bridge spans, and an active transportation bridge structure. The City of Winnipeg determined that the Disraeli Bridge Project, delivered in the form of a Design Build Finance Maintain (DBFM) contract with a 30-year concession period would provide the best value for money. As part of the successful Plenary Roads Winnipeg (PRW) team, Tetra Tech teamed with PCL Constructors Canada Ltd. to be the primary consultant and design team lead. The innovative design provided uninterrupted traffic during the entire construction period.



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AWARD OF EXCELLENCE



Category: Infrastructure/Transportation
Red River Floodway Inlet Control Structure Trunnion Anchor Replacement
Firm: KGS Group and SNC Lavalin Inc.
Client: Manitoba Floodway Authority

Reliable operation of the gates at the Floodway Inlet Control Structure is critical to protecting Winnipeg during large floods. The gates have performed well for over 45 years, however, life extension measures were now required to ensure the gates continue to provide reliable protection. These measures include replacing the anchors that secure the gate trunnions (hinges) to the concrete. This projects challenges included: tight timelines, unprecedented drilling and tensioning methods; replacing and tensioning 44 anchors with a total load of 11 million pounds and precise 3D drilling and machining within confined spaces.



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JUDGES' COMMENTS

The Inlet Control Structure is the only component of the Red River Floodway with moving parts such as the two large gates. If those moving parts fail, Winnipeg could be lost to a significant flood. There were many design and logistic constraints that made the trunnion anchor replacement extremely challenging and without precedent.

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MRMCA is governed by a Board of ten elected Directors from producer, associate and cement manufacturer members.

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AWARD OF EXCELLENCE



Category: Industrial
GE Aviation Engine Testing, Research and Development Centre
Firm: KGS Group and MCW/AGE
Client: StandardAero Ltd.



In 2010, General Electric Aviation formed a partnership with StandardAero to construct a state of the art jet engine certification test centre in Winnipeg. StandardAero engaged a diversified project team including Hanuschak Consultants Inc., KGS Group, and MCW/AGE to provide

engineering design services for the test centre. The team provided expertise in structural, electrical, mechanical, and project management to support the design and a highly collaborative 3D model was developed to coordinate the project and combat an aggressive project schedule.



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JUDGES' COMMENTS

This was a complex project involving challenging foundation conditions, time constraints, restrictive site logistics and a large diversified project team. A model was developed that enabled focused, collaborative coordination and seamless integration of the diverse aspects of the project in a 3-D environment. This mitigated project risk and enabled design and construction to be completed within a restrictive schedule of less than 12



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AWARD OF MERIT



SMS ENGINEERING

Category: Building Engineering
Richardson College for the Environment
Firm: SMS Engineering Limited
Client: University of Winnipeg



JUDGES' COMMENTS

As a learning instrument, the Richardson College for the Environment provides a living example of best practices in design for engineering efficiency. The reuse of available air and the redirection of low-grade energy has resulted in major energy savings and the judges awarded this project an award of merit.

AWARD OF MERIT

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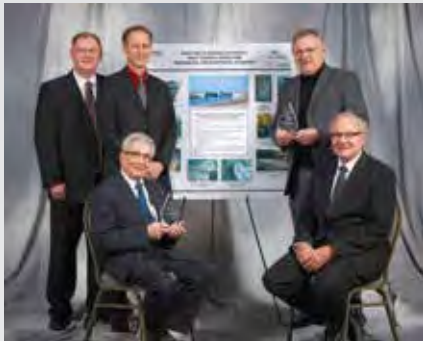
Category: Infrastructure/Transportation
Osborne Street Bridge Rehabilitation and Widening
Firm: Tetra Tech
Client: City of Winnipeg



JUDGES' COMMENTS

The judges chose the Osborne Street Rehabilitation and Widening project for an Award of Merit due to the significant stake holder consultation and incorporation of community identified needs into the final design. The high complexity and large number of constraints added to the difficulty of this project. Several key issues and challenges had to be overcome during the design and construction.

AWARD OF MERIT

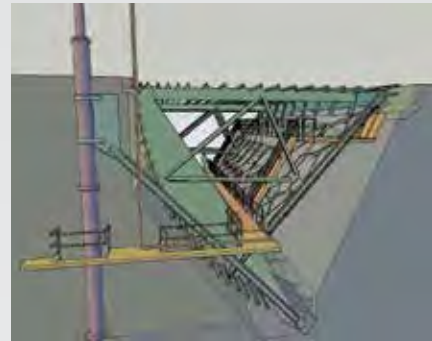


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SNC • LAVALIN

Category: Infrastructure/Transportation
Red River Floodway Inlet Control Structure Mechanical and Electrical Upgrades
Firm: KGS Group and SNC Lavalin Inc.
Client: Manitoba Floodway Authority



JUDGES' COMMENTS

The judges chose this project for an Award of Merit due to the overall importance of the Floodway Inlet structure in its role of protecting Winnipeg against major flooding. The upgrading posed many challenges including the constraints of space and time. The gates themselves are continuously submerged, so low winter water levels are necessary before cofferdams can be installed and no work could occur with the structure was closed or during operation.

AWARD OF MERIT



Stantec

Category: Environmental
Headingley Wastewater Treatment Facility
Firm: Stantec Consulting Ltd.
Client: R.M. of Headingley and Water Services Board



JUDGES' COMMENTS

The judges chose this project for an award of merit for its contribution to the environment. Expanding the capacity of Headingley's waste water treatment operations enabled the municipality to meet its regulatory requirements and to plan for future expansion and development. The project was \$2M under the estimated budget and employed a Design-Build-Operate procurement model with a limited operations period to facilitate an easy transition of the operations to Headingley's municipal staff.

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AWARD OF MERIT



Category: Environmental
Lake of the Prairies Spill Response
Firm: AMEC
Client: Federated Co-operatives Limited



JUDGES' COMMENTS

This project received an Award of Merit for the quick response of AMEC to an accident in the middle of the night, where a tanker truck carrying 50 000 litres of Diesel Fuel left the highway, caught fire and became partially submerged in Lake of the Prairies. AMEC was on site within hours to conduct emergency activities and establish a remedial action plan. The cost effective, innovative, practical and environmentally pro-active approach used, resulted in effective protection of the environment at a low cost to the owner and to the satisfaction of six regulatory bodies from local, provincial and Federal jurisdictions.

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Category: Energy Resource Development
Pointe du Bois Spillway Replacement Project, Eco-Hydraulic Studies
Firm: KGS Group
Client: Manitoba Hydro



JUDGES' COMMENTS

The judges selected this project for a merit award in recognition of the sophisticated integration of three dimensional Computational Fluid Dynamics analysis with five parameter Habitat Sustainability Index Model. This was used to protect a species at risk; the Lake Sturgeon in analyzing a dual-option replacement arrangement for the spillway of Manitoba's oldest power generation station on the Winnipeg River.

AWARD OF MERIT



Category: Industrial
Colonsay and K3 Greenfield Substations: 230 kV GIS and 15 kV Distribution Systems
Firm: Hatch Ltd.
Client: Mosaic Potash



JUDGES' COMMENTS

The judges chose this project for a Merit Award due to the application of a number of technological advances in a challenging and extremely contaminated environment of fine potash dust. These included advancing the test methodologies for gas-insulated switchgear, high-voltage cables and plug-in terminations utilized at very high voltages up to 230 kV. A special innovative approach was used to meet the stringent grounding requirements for the CSA Standard 'Use of Electricity in Mines', including applying a powerful software to optimize the grounding. The project was also very technologically complex involving more than 100 computers and other programmable electronic controllers.

AWARD OF MERIT



SNC • LAVALIN

Category: Industrial
Vanscoy 138kV Power System Project
Firm: SNC-Lavalin Inc.
Client: Agrium Vanscoy Potash Operations



JUDGES' COMMENTS

The judges selected this project for an Award of Merit as it was a very challenging project with many technological developments and industry firsts. One of the greatest challenges was the variability of the soil thermal conductivity, since the power transmission capacity of the system cables is directly related to the ability of the soil to conduct heat away from the cables. The problem was resolved by providing real-time temperature monitoring of the cables themselves deploying a fiber optic cable temperature-sensing system using the spatial resolution of the Raman Effect on a one meter grid.



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ENGINEERING ACTION AWARD RON TYPLISKI, P. ENG.

Established in 2005, the *Engineering Action Award* recognizes outstanding service and dedication to the association, the Canadian consulting engineering profession and the community through volunteer activities to an engineer who is actively practicing in the industry. Previous recipients include Garry Bolton in 2005, John Woods in 2006, Roger Rempel in 2008, Ken Anderson in 2009, Ralph Kurth in 2010, William (Bill) H. Brant in 2011 and Tom Wingrove in 2012. ACEC-Manitoba congratulates Ron Typliski, P. Eng. as the 2013 recipient.

RON TYPLISKI, P. ENG.

Ron Typliski is currently serving as Vice President, District Business Line Leader for Environment - Manitoba and Saskatchewan, and Geopolitical Leader for AECOM. In recent years, Ron has also served as Manitoba's District Manager, leading a staff of 250 people through the challenging consolidation of two legacy companies (UMA and EarthTech). With nearly 35 years of engineering experience, Ron has worked on a wide array of environmental and mining related projects, with a particular emphasis on Manitoba and Saskatchewan.



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Ron grew up in Selkirk, Manitoba and graduated with a Bachelor of Science degree in Civil Engineering from the University of Manitoba in 1978. Following graduation, in 1979, Ron was hired by Hudson Bay Mining and Smelting and worked for them until 1992. At that point, he joined UMA Engineering and spent the next 6 years with them. In 1998, Ron pursued an opportunity with Morrow Environmental Consultants and in 2005, Ron joined AECOM as a Senior Environmental Engineer, leading him to where he is today.

An active member of the Association of Professional Engineers and Geoscientists, Ron has earned certification as a professional engineer in both Manitoba and Saskatchewan.

Ron has been active with ACEC-MB for many years and has a true passion for serving the organization and representing the interest of engineers in Manitoba and Canada. Ron was a Director for ACEC-MB from 2006 to 2010, ACEC-MB President in 2010 and acted as Past President in 2011. During these years he chaired many Committees. In addition to his work with ACEC, Ron has also been active and held senior positions with the Winnipeg Chamber of Commerce. His dedication to furthering the interests of ACEC members led him to take on this added responsibility

and through the Chamber, Ron was able to give Manitoba engineers a greater voice in the Winnipeg business community. Ron continually advocates for the engineering community and the strong capabilities that exist locally to support new and existing business, infrastructure, and environmental needs. For his efforts and leadership excellence, Ron was named Director of the Year in 2011 by the Winnipeg Chamber of Commerce and was recognized at the annual State of the City event attended by the Mayor of Winnipeg.

As a senior engineer, Ron has always made an effort to provide mentorship and guidance to Young Professionals and sees it as his duty to pass along what he has learned through years of experience. Ron has always felt it was important to give back to the community that provided him an opportunity to get his education, a career, and a great place to call home. He is quick to help out whenever he can and actively participates in charity fundraisers and events. He also places importance on values that define him as a leader: honestly, integrity, sincerity, remaining optimistic and caring for others.

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RISING STAR AWARD

KIMBERLY YATHON P. ENG.



The *Rising Star Award* is intended to recognize exceptional achievements in the early years of a persons' career. This award was established in 2008 in recognition of the 30th anniversary of the Consulting Engineers of Manitoba. The award is intended to celebrate a young individual who has demonstrated excellence in business practices, outstanding achievements in their applicable fields, leadership in the community and the active participation in the association. The award was first presented to Daniel Zaborniak in 2008, Jason Cousin in 2009, Beth Phillips in 2010, Owen Van Wallegghem in 2011 and Jonathan Epp in 2012. This year ACEC-Manitoba congratulates Kimberly Yathon, P. Eng. as the 2013 recipient.

KIMBERLY YATHON P. ENG.

Kimberly Yathon graduating from the University of Manitoba's Civil Engineering program in 2002 and began her career at Tetra

Tech Inc., formerly Wardrop Engineering. Kim has worked on more than 13 bridge projects in her eight years with Tetra Tech. While performing structural design for Tetra Tech's bridge projects, Kim demonstrates her strong work ethic and no-nonsense attitude as a resident construction site engineer and construction coordinator. Kim's tenacious attention to detail has landed her with more leadership-specific roles of contract administration, construction coordination, and detailed design coordination. Kim will no doubt further her career naturally in a supervisory and manager role as a strong leader, technical professional, and trusted advisor.

Kim currently sits on the ACEC-MB Young Professionals committee. She remains as one of the two founding YP committee members to still sit on the committee and had once held the position of Vice-Chair of the committee. Her

recent endeavours with the ACEC-MB YP committee have utilized her organizational skills to plan, coordinate, and execute two Annual Young Professional Galas. Kim sits on the Joint Health and Safety Committee for Tetra Tech Canada, is the Safety representative for the Structural Department in Winnipeg, and in 2009 won Tetra Tech's Leadership in Safety award. In her earlier professional years she stayed connected with the University of Manitoba's WISE organization promoting women in engineering. Kim is also a great presenter and ambassador of consulting engineering; representing both her profession and her company on numerous school presentations and career fairs.

Outside of work and engineering, Kim is very active in her community. She volunteers her time every Wednesday to lead an all-girls' youth group, and hosts dinners every Sunday for her church group.

LIFETIME ACHIEVEMENT AWARD

TIM STRATTON, P. ENG., FEC

As part of the Awards of Excellence Program, the Consulting Engineers of Manitoba acknowledge the individual achievements of Manitoba's consulting engineers through the *Lifetime Achievement Award*. This award is presented to a Manitoba engineer in recognition of his or her leadership, achievements and contributions to consulting engineering.

Previous recipients include Les Wardrop in 2002, Bill McKay in 2003, William Mitchell in 2004, Russell Hood in 2005, Al Dyregrov in 2006, Alfred Poetker in 2007, Norman Ulyatt in 2008, Peter Washchyslyn in 2009, George Rempel in 2011, Garry Bolton in 2012 and this year the Association of Consulting Engineers of Manitoba honors Tim Stratton P. Eng., FEC.

TIM STRATTON, P. ENG., FEC

Tim Stratton graduated in 1970 from the University of Manitoba with a Bachelor of Science in Civil Engineering. He is currently a Senior Associate at Stantec Consulting Ltd. From 1980 to 1994 he was a Director of Delcan Western Ltd. and Winnipeg Branch Manager. From 1994 to 1996, Tim was a Principal Owner of DWL Engineering Inc. with offices in Winnipeg, Regina, Saskatoon and Calgary.

Tim has been fortunate in his career to manage or advise on several complex, multi-year, multi-million dollar projects. Clients actively seek Tim as project manager for their projects as they know they can rely on Tim's realistic, informed advice. Tim has successfully delivered projects for the Federal Government, Provincial Government, Municipal and Crown Corporations as well as First Nations.

Tim was active in ACEC-MB (formerly Consulting Engineers of Manitoba) for 22 years as President in 1990/91, Acting President in 1989/90 and as a Director and active committee member on many of the Sub-Committees including the Nominating Committee; City of Winnipeg Committee, Manitoba Water Services Board/PFRA Committee, Transportation Committee and Image Committee. Tim started the Image Committee to raise the positive awareness of the consulting engineering profession in Manitoba. As President he increased the profile of CEM by presenting to ACEC Annual



Conferences in Quebec and Kananaskis. Tim also made a presentation on Women In Engineering to Premier Filmon and MLA's 1991. Tim has been an active member of other professional organizations, including APEM (now APEGM), Canadian Society of Civil Engineers, Western Canada Water and Wastewater (now Western Canada Water) and the Canadian Public Works Association. He is a member of the Professional Engineers of Ontario, as well as APEGM. He received the Certificate of Fellowship; Engineers Canada in 2009

Aside from Tim's significant contributions to the Consulting Engineer-

ing Community, he has been active in community service as a Board Member of Ducks Unlimited Winnipeg South Fundraising; he has provided pro bono water and wastewater treatment advice to organizations such as camp Stephans and Camp Massad and has volunteered as an official scorer for Biathlon Manitoba.

In his personal life, Tim is happily married to Jane and is the proud father of Holly Stratton. He has a great sense of humour, is a singer/song writer, is easily convinced to go on a golf or hunting trip, and played recreational hockey until this winter.

MEMBER SERVICES GUIDE

Our ACEC-MB Member Services Guide consists of two sections:

1. A categorical listing of products and services, including a list of the companies that provide them.
2. An alphabetical listing of the companies appearing in the first section. This listing includes name, contact info, website and more.



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Fax: (204) 944-1444
drysdale@accutecheng.ca
Contact: Ken Drysdale


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tpeters@dillon.ca
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gilrobinson@drgeotechnical.com
 Contact: Gil Robinson

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sreabum@mcw.com
 Contact: Steve Reaburn

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 Fax: (204) 772-2153
sms@smseng.com
 Contact: Chris Hewitt, P.Eng.

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 Fax: (204) 988-0564
mario.scerbo@tetrattech.com
 Contact: Mario Scerbo, M. Sc., P.Eng.



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eng_tech@mts.net
 Contact: Clark Hryhoruk

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mhouvardas@towereng.ca
 Contact: Mike Houvardas

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 Fax: (204) 474-2864
bill.brant@genivar.com
 Contact: Bill Brant

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jcousin@jrcc.ca
 Contact: Jerry Cousin, P.Eng.

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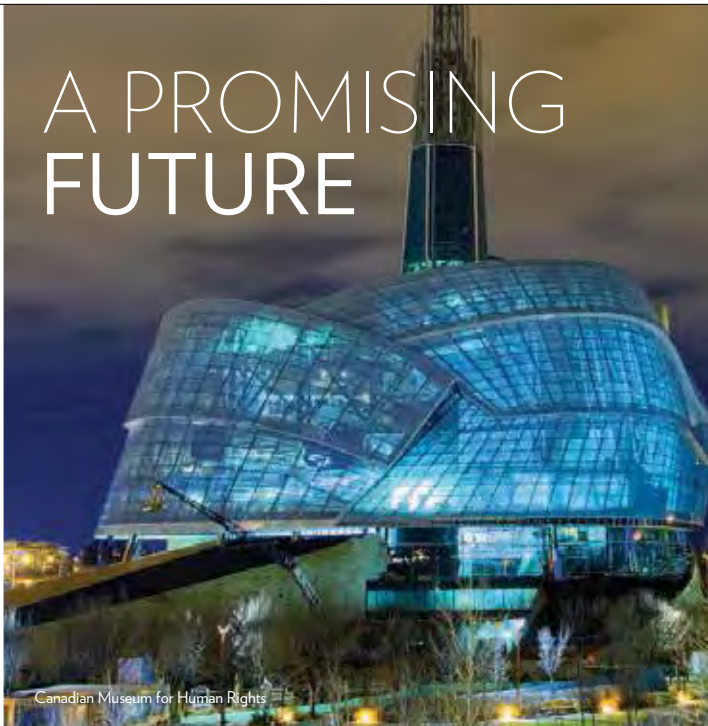


**Measure
Model
Mitigate**

Noise level
Lden
in dB(A)

| | | |
|------|---|-----|
| -1.0 | < | 0.5 |
| -0.5 | < | 0.0 |
| 0.0 | < | 0.5 |
| 0.5 | < | 1.0 |
| 1.0 | < | 1.5 |
| 1.5 | < | 2.0 |
| 2.0 | < | 2.5 |
| 2.5 | < | 3.0 |
| 3.0 | < | 3.5 |
| 3.5 | < | 4.0 |
| 4.0 | < | 4.5 |
| 4.5 | < | 5.0 |
| 5.0 | < | 5.5 |
| 5.5 | < | 6.0 |
| 6.0 | < | |

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↑ Integrated, functional planning for design-build CentrePort Canada Way project results in faster, safer, and healthier mobility solutions

Detailed planning and transportation reports create walkable neighbourhoods in Waverley West that connect through a linear greenway system ↓





Mentoring and ACEC

By Alana Gauthier, P.Eng.
Industrial Manager, Genivar Inc.
Vice-President ACEC Manitoba

Last fall, I had the opportunity to talk on the 'Role of Mentor' at the Manitoba Legislative building. To prepare, I asked myself "who were my mentors?", "what did they teach me?", "what impact did they have on my career?" and what are my words of advice.

I was fortunate as I had male and female mentors at critical points of my career development. During a summer term at Alcan, Margo Sedden, VP Environmental (worldwide) mentored me. Margo described projects and their challenges around the world (how do you get people to wear safety boots, who have never worn boots in their lives?). Margo made me think outside of the books and realize what I was studying had real life, practical applications. I did not realize it at the time but she had a large impact on my not accepting limits and seeing barriers as challenges to be overcome.

Mentors play a pivotal role in a young professional's career. They continue the learning process that began in University and help the individual achieve their dreams. In some cases they help the individual define their dream.

As a young process engineer I worked in the Refinery at Inco in Thompson. My mentor was Anne Nichols, Refinery 'Foreman.' She was very approachable and always willing to answer questions. One of my tasks was to improve the performance of nickel carbonate circuit in the Refinery. This circuit controls dewatering which has a large impact on the quality of one million pounds of nickel in the platehouse. Thus this project can impact the financial viability of the Thompson operation.

I talk to each shift operator, who is each sure that what they are doing is

right and what the other shifts are doing is wrong. Ed (identified by Anne) is the most knowledgeable and known to be an unhelpful curmudgeon. My approach, admit I know nothing about the process (slight exaggeration) and say "I know you have worked here for 20 years and you know the process. What would you do to make the process better? I need your help to make the project succeed." Ed was awesome and incredibly helpful. The project was a complete success. Although Ed did make me promise to tell everyone that he was completely unhelpful to maintain his reputation.

Mentoring at critical points in a person's career leads to success. A mentor guides but does not direct. Anne told me who I needed to convince but the convincing part was my challenge. It also refined the lesson that it is okay to admit when you do not know something.

When I was hired at GENIVAR, six years ago, I had the unique opportunity to create my own job. GENIVAR wanted me to develop an industrial client base and do projects for them. I had no marketing experience, except for selling Girl Guide cookies as a child. Thanks to my previous mentorship by Margo, I saw this as an amazing opportunity. I followed my instincts and developed a client base with repeat business. My largest project to date was being the project manager for surface infrastructure for the \$460 million brand new Lalor mine site. I was identified by the Hudbay project manager at a presentation as being a key person to the success of the project.

At GENIVAR, I have had the opportunity to be a mentor rather than a mentee. It has been an incredibly rewarding experience.

I discovered that you continue to learn as a mentor and I truly believe that mentoring unleashes the full potential of individuals in your organization.

So why should ACEC care about mentoring?

The 2011 report '*Stemming the Tide: Why Women Leave Engineering*' indicates that although women comprise 20% of engineering school graduates, only 11% of practicing engineers are women. Workplace climate is the main reason women leave the profession and also the main reason why women stay in engineering. Women, with key supportive people (including mentors) and who worked in companies that valued and recognized their contributions and invested in their training and professional development, expressed greatest levels of satisfaction with their careers.

Several studies indicate we will have a shortage of engineers in the future. We need to do everything we can to help retain the individuals who enter engineering.

ACEC Manitoba is starting a committee to promote and mentor females to address the challenge of retention of women in engineering. Consulting Engineering organizations in the USA have committees of this nature which are very effective. The mandate will be refined during the committee start up meeting.

So what were my words of advice?

- You can be anything that you can imagine.
- The only one that can hold you back is yourself.
- Every setback is a potential opportunity.
- Always be willing to ask questions.
- And my personal favorite: "Do or do not, there is no try." 🚫

ACEC-MB

15th Annual Golf Tournament

May 13, 2013



The winning team, made up of Kevin Thorlakson, John Highmoor, Harold Peterson and Ed Johnson representing Tri- Core Projects Manitoba Inc are shown with David Fuchs, Golf Chair.

The Association of Consulting Engineering Companies—Manitoba held its 15th annual golf tournament on Monday, May 13, 2013 at Niakwa Golf and Country Club. This year's tournament had an attendance of 115 registered golfers. It was a beautiful day with the temperatures nearing 27°C. ACEC-MB would like to thank the players, prize sponsors, hole sponsors and event sponsors for making this event successful.

Next year's tournament will take place on Wednesday, May 14, at Pine Ridge Country Club.



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Statute of Limitations, What are the Impacts?

By Darren Peters, CRM, FCIP

Owner principle at Oldfield Kirby Esau Insurance Inc.

Many articles have been written about the ongoing dilemma of the 'statute of limitations' imposed on professional consultants across Canada and North America. The intent of this article is to provoke thought and increased awareness among Manitoba's consulting engineers about some of the complexities that differing statute of limitations have in Canadian jurisdictions, particularly in Manitoba.

(Please note that this article in no way intends to address all of the complexities of the various triggers for statute of limitations in each Province, nor is the intention to attempt to interpret the approach of each jurisdiction to the statutes.)

Two important definitions provide insight into some of the complex ways that these two limitations affect the professional consultants' world.

Statute Of Limitations

An enactment that sets the maximum time after an event that legal action can be undertaken. For example, see the table supplied on the limitations for Manitoba and surrounding Provinces.

Ultimate Limitation Period

Maximum time period that an action can be undertaken regardless of when the injury occurred or was discovered.

These two definitions in themselves seem quite straightforward, but some factors that complicate their interpretations include:

- When does the clock start on the event? Immediately after the work was completed by the professional? When the error was made?
- When should the error have been known? When the error or omission gave rise to the claim?

Various jurisdictions have varying inter-

pretations of discovery so the jurisdiction in which the professional is working, or the jurisdiction the contract stipulates, will determine what statute applies.

Why are these two very simple concepts so important to practicing consultants in all jurisdictions?

Liability

All jurisdictions in Canada set out minimum Professional Liability guidelines that must be adhered to by all practicing professionals. This is put in place to protect clients from errors, omissions and negligent acts committed by the practicing consultant. The statute of limitations can have very significant impact on the liabilities assumed by the professional. A very quick example is that of a sole proprietor doing business in Manitoba. Currently, Manitoba's statute of limitation period is six years and the ultimate limitation is 30 years for the worst case scenario. How does that sole proprietor protect him/herself and ensure that they can retire and not be concerned about work that they did decades ago?

Competitive Environment

Given globalization and the competition occurring in the field, is it not a competitive advantage for a professional operating in jurisdictions where the statutes of limitations are more realistic? If, for example, the firm referenced above operated in Alberta their statute of limitations is two years, with the ultimate limitation period at 10 years? Over time, this should result in the following competitive advantages to the sole proprietor:

- Less costly Professional Liability Insurance costs mean more competitive quotes for clients.
- Peace of Mind knowing that a consultant's estate will not be liable for

claims arising from prior work after they decide to retire.

- More certainty around document retention and Assessing Ownership of instruments exposures.
- Potentially easier contract negotiations around limitation of liability issues.
- Improved ability to sell a solely owned business. When a consultant is looking to sell their practice many purchasers, aware of the statute of limitations, may ask to purchase the assets of your business rather than the shares. This means the liabilities for past work remain the responsibility of the seller and not the buyer!
- Improved ability to develop and implement perpetuation plans and retirement options.

Recruitment

Not that many University students in the faculties of Architecture or Engineering are looking 35 years into the future; but, if they were would it not be to their advantage to take the statute of limitations of certain jurisdictions into consideration? For students that obtain full accreditation, it could be a huge advantage to them in determining whether they work within a firm or choose to open their own firm to take these two limitation periods into consideration. As soon as they obtain their full designation they have the same liabilities as any other practicing professional in their field and it does not matter that they received their degree one year or 30 years ago.

Litigation

Have you noticed that clients are paying increased attention to contracts and there is a definite movement to both increased use of client drafted contracts, as well as increased limits required for Professional Liability? There has also been an

increase in overall actions that are being commenced against Consultants for a variety of different items such as:

- Delay Damages
- Liquidated damages
- Breach of Contract

If you are practicing in a Province or Territory where they still adhere to archaic statues of limitations you are exposing your professional designation for longer periods of time to these new forces. It is important to note that currently the average professional liability claim is somewhere in the neighbourhood of \$85,000 per claim. This does not take into consideration the time away from billable hours due to having to review archived information. Now imagine having to review archived information that is 25 years old! Do you still have these documents and is there anyone left in the firm that recalls this project? What specifications and practices have changed since then? What will the interpretation of the courts be? Will they use the specifications that were in play at the time the work was done or those in place today?

The above are only four factors for consideration; however there are many more that could come into play depending on interpretation and ways in which a jurisdiction may react to public safety concerns, loss of life and other outside forces. A great example of this was the sudden collapse of the I-35W Mississippi Bridge in Minneapolis in August 2007. Following this

event, Minnesota legislators repealed the 10 year Statute of limitations and sought legal action against both the original engineers who designed the bridge, as well as the firm that inspected this bridge before its collapse. The end result was over \$60,000,000 in settlements and judgments against the two firms involved.

As consulting engineers in Manitoba, it is in your best interest to advocate for more reasonable statute of limitations and limitation periods in this province. Some of the things consultants and the Association can do to make this a reality include:

- Fight for reduced statute of limitations.
- Argue for better definitions of how the limitations are defined and when the clock starts on the periods of limitation.

- Seek uniformity across jurisdictions on limitations, discovery periods, and definitions.
- Promote increased awareness of contract implications to your profession and the liabilities to which you may be exposing yourself and your firm.
- Creating increased awareness of your profession and its impacts to society and the importance that you not allow it to be commoditized. You have a right to charge fees and be profitable!
- Working with Contractors to ensure CCDC documents and standard industry documents are uniform and take into consideration changes that have occurred in the last 10 years to legislation, business practices and other forces that impact these contracts. 🌐

CURRENT STATUTE OF LIMITATIONS & ULTIMATE LIMITATION PERIODS

| Province | Statute of Limitations | Ultimate Limitations Periods |
|--------------|------------------------|------------------------------|
| Alberta | 2 years | 10 years |
| B.C. | 2 | 15 |
| Ontario | 2 | 15 |
| Manitoba | 6 | 30 |
| Saskatchewan | 2 | 15 |

TABLE NOTES: Subject to different definitions, exclusions and special considerations like when the clocks start on the limitation periods, etc; these are based on very generic and general interpretations and are subject to change.

It is always important to be aware of the statute of limitations in each jurisdiction you work. If you are unsure, contact your legislators and see if they can offer an explanation.

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Message from the YPC Chair

Kyla Kirk, P. Eng.



Over the past year and a half, I have been fortunate to witness the evolution of the ACEC Manitoba Young Professionals Committee (YPC). We had held our first ever strategic planning meeting, where we thoroughly reviewed our mission and goals for relevancy and to align with ACEC Manitoba's objectives. This session was led by our current Vice-Chair, Lin Watt, whose facilitation skills allowed us to ask the hard questions required to help us redevelop our mission and goals.

The outcome of our session has been broken down by definition, mission and goals.

Young Professional Definition

A Young Professional is defined as any employee of an ACEC-MB member firm who is under the age of 35 or who has up to 10 years of experience in his/her field.

Our definition of young professionals includes every employee of an ACEC Manitoba member firm whether administrative, professional or technical, as long as the member is under the age of 35 or has up to 10 years of experience.

Mission

Our mission is to enhance the growth and advancement of the consulting engineering industry by supporting the development of Young Professionals.

We strive to achieve this mission via our goals.

Goals

Provide Young Professionals with a greater understanding of the consulting engineering business and ACEC Manitoba's role in it.

ACEC Manitoba's mission is to promote the business interests of consulting engineering companies in Manitoba and to promote the application of engineering for the benefit of Society. As such, we strive to provide many opportunities for young professionals to understand the purpose of ACEC Manitoba and the business of consulting engineering.

Provide Young Professionals with networking opportunities and venues to further develop their skills.

We continue to provide educational seminars and networking events to help our Young Professionals fulfill their professional development needs and allow them to expand their network. We also provide opportunities for YPs to learn more about engineering achievements in Manitoba through site tours.

Advocate on behalf of Young Professionals to promote their interests within the consulting engineering industry.

We attempt to fulfill this goal in several ways. One young professional is appointed to the ACEC Manitoba Board of Directors to give young professionals a voice at the highest level within our local association. Furthermore, a young professional is appointed to the ACEC Canada Young Professionals Network (YPN) to give our young professionals a presence on the national level. Although the YPC surveys young professionals every two years, this does not preclude our young professionals from approaching any member of our committee with their ideas, concerns or commendations at any time.

Provide Young Professionals with opportunities to actively contribute to the consulting engineering industry and ACEC Manitoba.

The YPC actively encourages young professionals to indicate their interest in joining our committee, and we try to accommodate them where possible. Many ACEC Manitoba committees are also actively looking for volunteers and we do our best to link suitable candidates to committees that align with their skills and interests.

Facilitate the progression from post-secondary education to involvement in the consulting engineering industry & ACEC Manitoba.

The YPC is strengthening its ties with post-secondary institutions within Manitoba, beginning with the University of Manitoba. Over the next year, we plan to host several sessions at the University of Manitoba and sponsor an event

during Engineering Week. We have also redeveloped our mentorship program with the intent of rolling it out this fall.

Communicate and coordinate with other organizations to exchange ideas and find mutually beneficial opportunities.

At minimum, we host two events per year that include non-ACEC Manitoba members, and constantly seek opportunities to network with other organizations. Additionally, our participation in the ACEC Canada YPN allows us to implement best practices from other jurisdictions to continually improve the services our group offers.

Committee Members

Our current young professionals team consists of:

Dana Bredin, Events Coordinator, GENIVAR

Kyla Kirk, Chair, CH2M HILL

Amanda LaCoste, Promotions and Communications, MCW Consulting Professional Engineers

Kristen Poff, Student Outreach, GENIVAR

Nikou Snell, Events Coordinator, Hatch

Andrew Van Delden, Promotions and Communications, Hatch

Owen Van Wallegghem, Past Chair &

Promotions and Communications, AECOM

Mark Warkentin, Special Events Coordinator, MMM Group

Lin Watt, Vice-Chair & Student Outreach, Dillon Consulting Ltd

Kimberly Yathon, Special Events Coordinator, Tetra Tech

All our team members have contributed to our mission and goals in their own way based on their role within the committee.

We do not intend that the strategic planning session be a one-time occurrence. The plan is to perform our strategic planning session every two years following our young professionals survey, and to use the results from this survey, lessons learned over the past few years, and ACEC Manitoba's mission and goals to update our mission and goals.

As usual, we are always available if you have any questions or comments about our new direction. Feel free to contact us at yp@acec-mb.ca.

A Year in Review

By Michael Egberts – ACEC YPN Chair, 2013-2014

The Young Professionals (YP) Network was created two years ago by Provincial YP group members in an effort to connect the YP groups across the country. At the time, there were several YP groups that had been established but they were not often in contact, despite the fact that they shared similar goals. The primary purpose of this group is to create a space where YPs from all provinces could interface and share ideas. A secondary purpose was to serve as a launching pad for new provincial groups to emerge. Since then, the Young Professionals Network (YPN) has accomplished this, and much more.

In the last year the YP Network accomplished many things. The highlights include the following:

- established online communication platforms to support effective collaboration and idea sharing;
- assisted in the formation of more new provincial YP groups in New Brunswick, Prince Edward Island and Newfoundland; and
- increased discussion between provincial YP group members to help create dynamic YP programs. Discussions include sharing event topics, creating ideas to promote the benefits of YP programs to YPs, ideas for using social media to share the YPN message, and ideas for creating effective visual

meeting platforms that could help break down distance barriers facing Canadian YP groups.

The YPN has also engaged with ACEC at the national level to participate in programs like Parliament Hill Day and assisting in the development of the YP program at the annual ACEC Summit. One YP representative had the opportunity to meet with Dr. Kellie Leitch who is the Parliamentary Secretary responsible for communication between the young Canadians and the Minister of Human Resources as well as Skills Development with the Minister of Labour. Here, we had the opportunity to share the YP vision of consulting engineers with respect to the 2013 federal budget, specifically looking towards a long-term infrastructure plan that would assist in creating more stability for ACEC member firms and, in turn, would potentially help create long-term career development within ACEC member firms.

The YPN is active in promoting consulting engineering to the public. This includes outreach to engineering students who will be the consulting engineers of the future. One such student includes Mr. Ajmal Tahir who is a chemical engineering student from the University of Toronto. Mr. Tahir submitted a video entry to ACEC's Engineering Legacies YouTube contest explaining why he wants to be a consulting engineer. Mr.

Tahir suggested that the ability to have impact on the lives of Canadians, the challenge to solve some of the biggest and toughest problems, and the potential for him to grow and develop through his career were amongst his motivations to become a consulting engineer. (<http://www.youtube.com/watch?v=ZuUlGbxKxM>) He is exactly the type of young person we want to attract into our industry and it is clear that our efforts are making a difference.

The YPN played a key role in developing the program for ACEC's national conference held this year in Lake Louise, Alberta. Please read the summary of YP activities in the summer issue of ACEC's Source newsletter. (http://www.acec.ca/source/2013/Summer/SubPages/voice_E2.html?utm_source=EliteEmail&utm_campaign=2013%20ACEC%20Newsletter%20-%20Summer&utm_medium=email).

In the next year, the ACEC YPN will be looking to connect with YPs and YP groups on a more regular basis. Our goal is to continue to foster engaging discussion, to share best practices, to plan a YP program for the 2014 national conference in Winnipeg, and to continue our work in government relations.

Thank you to everyone who has helped to make 2013 a fantastic year for the YPN, and I am looking forward to another great year ahead! 🍀

2012 – 2013 YPC Events Summary

The Young Professionals Committee (YPC) has hosted a variety of events over the past year, including site tours, breakfast seminars, pub nights and the 4th Annual Young Professionals (YP) Gala.

Last September, YPs had the opportunity to participate in perimeter tour of the Museum of Human Rights. The event was hosted by Explore Manitoba, and included a presentation discussing the concept, development, and layout of the new landmark.



October brought the Fourth Annual YP Gala, hosted at Bergmann's on Lombard. Over one hundred guests representing 19 different firms and organizations were in attendance. The evening featured

a variety of speakers including greetings from then ACEC Manitoba President Ken Drysdale and APEGM's Executive Director and Registrar Grant Koropatnick. This was followed by a presentation by Andrew Steeves on *Building Lasting Client Relationships*, and panel discussion with James Betke, Angela Driver, Monique Buckberger, and Ken Drysdale. Seven lucky guests went home with prize packages from ACEC MB and gift cards to Moxies, Starbucks, and Mountain Equipment Co-Op.

In November, YPs and industry leaders gathered at Luxalune Gastropub to hear from Ron Typliski, James Blatz, and Jeff O'Driscoll. The theme of the night was *Building Companies* and each of these experienced professionals offered their unique perspective on the theme. Ron Typliski shared the challenges of merging two competing offices into a successful team, James Blatz covered the steps he and his group took to form TREK Geotechnical, and Jeff O'Driscoll talked about expanding an existing business into a new market.

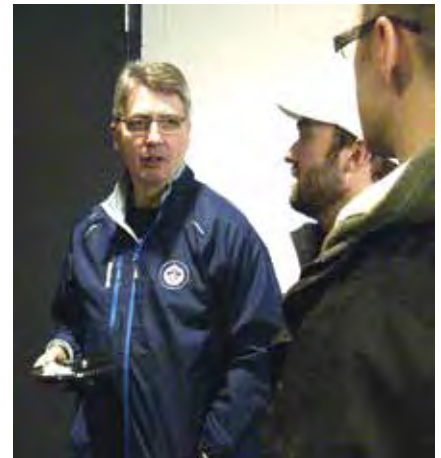
The first event of 2013 was held at the Elephant and Castle Pub and Restaurant on February 20th. The YPs were joined by guests John Gamble, president of ACEC Canada and Murray Thompson, Chair of the ACEC Canada Board, for a relaxing pub night.

Another site tour was offered in

March, which provided an opportunity to explore the MTS centre, including a presentation describing the mechanical and lighting system and a brief visit with the Winnipeg Jets Head Coach, Claude Noël. The tour was sponsored by MCW Consulting Professional Engineers and hosted by True North Sports and Entertainment.

In April, Ralph Kurth, President and CEO of Teshmont, shared his adventures in working overseas. Ralph talked about his experiences working in China, Malaysia, Thailand and Germany, and discussed the skills he developed during that time that still serve him to this day.

The YP committee would like to thank all those who volunteered their time and energy to make the events of the past year a success. We look forward to another eventful year ahead! 🍷



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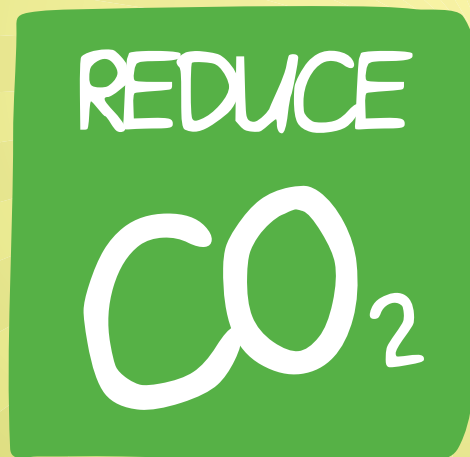
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