

Manitoba Consulting Engineer

Official publication of the Association of Consulting Engineering Companies - Manitoba

VOLUME 14 · MMXXIII

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2023 KEYSTONE AWARD WINNER

**ROYAL AVIATION MUSEUM
OF WESTERN CANADA**



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P.O. Box 21036, Winnipeg, MB R3R 3R2
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Phone: 866-985-9780 • Fax: 866-985-9799
E-mail: info@kelman.ca • Web: www.kelman.ca

Managing Editor: Julia Waterer
Design/Layout: Kiersten Drysdale
Advertising Manager: Jeff Kutny
Advertising Co-ordinator: Stefanie Hagidiakow

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Paper is an essential part of human civilization. While we all use and depend upon electronic communications, it is easy to ignore that it comes at an environmental cost. Worldwide spam email traffic creates greenhouse gases equivalent to burning two billion gallons of gasoline yearly, with numbers rising. More than \$55 billion in toxic e-waste material is thrown away every year in the US alone, with a recycling rate of only 20% compared to 64.7% for paper.

No industry is perfect. But the paper industry has made, and continues to make, huge investments in environmental responsibility. Specifying and buying paper from certified sources ensures the continuation and growth of carbon absorbing forests. Using paper with appropriate amounts of recycled fibre helps preserve forests, conserve energy, and maximize fibre usage through paper lifecycles.

MESSAGE

from the **PRESIDENT**



Mario Scerbo, M.Sc., P.Eng.
President ACEC-MB

It's Been a Privilege to Serve

As I enter into the final year of my 'term,' I can't help but think what a privilege it has been to serve as President of ACEC-MB. What started as a one-year delay before starting my role has turned into a three-year term. The beginning was slowed by COVID-19, and in-person meetings and client events were few and far between. The past year has felt much more normal, and for that I will be eternally grateful.

Our committees have been back in full swing, and meetings have been in person on a regular basis. We had a very successful awards ceremony this past spring at the new Aviation Museum, which was well attended and received great reviews. I would like to thank and congratulate all of the committee chairs and volunteers that make our events what they are.

I can't help but think of why we as an association are here. We recently had a strategic planning session, and during this session we reviewed our objectives: championing industry, strengthening firms and supporting members. With this in mind, I would like to welcome four new firms to ACEC-MB: Freshwater Consulting, Higher Ground Consulting, Kowalchuk Consulting Engineers Ltd., and PRO Engineering, Inc.

I would invite our new members and existing members alike to get involved and join a committee, and I encourage anyone reading this who is in the consulting industry but not a member to join ACEC-MB.

Over this coming year, we will continue to meet with our clients, including

We recently had a strategic planning session, and during this session we reviewed our objectives: championing industry, strengthening firms and supporting members.

the Province of Manitoba, the City of Winnipeg, municipalities, and private industries, representing the interests of the consulting community.

I would like to thank the Board of Directors, past presidents, committee chairs and all of the volunteers that have made,

and continue to make, being President of ACEC-MB an honour and a privilege.

Finally, I would like to thank our executive director Kerri Hiebert for her tireless efforts. I don't have enough space here to mention everything she does, but she deserves our thanks all the same. 🙏



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Kerri Hiebert
Executive Director,
ACEC-MB

Building a Thriving Community

As the Executive Director for ACEC-MB; I am tasked with fulfilling the Mission and Strategic Priorities of our Association. I have been given a great opportunity to assist our members to promote themselves as community-building experts who are driving solutions that benefit this generation and the next: in Manitoba, Canada and around the world. This was achieved through **championing our industry** to the public, to the policymakers and our clients, by **strengthening our member firms** through promoting consulting engineering as an exciting and meaningful career, while also advancing equity, diversity, inclusion and decolonization initiatives and by **supporting our members** needs at all times.

We are very fortunate in Manitoba to have the strength of our members, as Board Directors, Committee Members and all staff at our member firms to help achieve these goals. Additionally, we have the resources of all the Member

Offices (MOs) across the country, and the leadership of ACEC-Canada.

Issues travel across the country, and the discussions we have at the MO level help create a plan of action when jurisdictions and our clients do things in a different way within our province. There are vast differences province to province, but also many commonalities that give us insight when the issues arrive or begin in Manitoba. We are often able to learn what initiatives work or don't work as they are implemented elsewhere. As an example, we have relied heavily on information from Alberta, where Qualifications Based Selection (QBS) has been used for many years as reference to procurement procedures that are working well. Also, as Prompt Payment rolls out in different jurisdictions, we are learning lessons on the success or failure of some of the procedures being implemented. Having first-hand information and experience from my counterparts is an incredible asset.

ACEC-MB is supported nationally by ACEC-Canada. As we progress through

Federal initiative, ACEC-Canada represents the voice of ACEC-MB and the other MO's as they provide advocacy on major Canada-wide issues. Current advocacy programs being pursued at the national level include: the Federal Requirement for Bilingual Architect and Engineering documents, and the rebranding of QBS so that our clients can better understand this procurement method. ACEC-Canada assists by funding research and providing resources, content and information with one united voice.

We are exactly as strong as our membership, and I am proud to say that we have over 1600 ACEC-MB Members, representing 30 Manitoba Consulting Engineering Companies. Our strength is backed by almost 400 members, organized into 12 provincial and territorial Member Organizations, all with the same vision of a strong and resilient Canada that is designed and built by a thriving consulting engineering community. 🌟

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KEYSTONE AWARD 2023

- Royal Aviation Museum of Western Canada
-

AWARDS OF EXCELLENCE

BUILDING ENGINEERING

- Royal Aviation Museum of Western Canada
- Smith Street Lofts
- The Leaf at Canada's Diversity Gardens

ENVIRONMENTAL

- Pauingassi First Nation Landfill

MUNICIPAL AND WATER

- City of Iqaluit Water Crisis
- Laffeche Dam Low Level Outlet Conduit Remediation Project

TRANSPORTATION

- Eveline Street Reconstruction
- Fort Severn Winter Road Relocation Study

AWARDS OF MERIT

BUILDING ENGINEERING

- Canada Life Project Cygnus

ENVIRONMENTAL

- Manitoba Crown Land Aggregate Quarry Liability Assessment Project

MUNICIPAL AND WATER

- North End Water Pollution Control Centre Sequencing Batch Reactor Optimization
- Water Treatment Facility Upgrade: New Chemical Building

TRANSPORTATION

- Churchill Airport: Answers Beneath the Surface

SMALL PROJECTS

- Esplanade Riel Pedestrian Bridge Cable Stay and Pylon Lighting Upgrade
-

RISING STAR AWARD

- Hailey Collins-Kramble, P.Eng.
-

ENGINEERING ACTION AWARD

- Justin Rak-Banville, M.Sc., MBA, P.Chem., P. Eng., EP
-

LIFETIME ACHIEVEMENT AWARD

- William (Bill) H. Brant, P. Eng., FEC

**2023** KEYSTONE AWARD WINNER

ROYAL AVIATION MUSEUM OF WESTERN CANADA

OVERVIEW

When the Royal Aviation Museum of Western Canada made the decision to relocate and create a world-class aviation-based destination attraction on a completely new site, the museum architects Reich & Petch, along with A49 architects, engaged the seasoned experts at KGS Group. The mission was to deliver and design an energy efficient facility, targeting LEED silver certification, and to highlight and illuminate the historic aircrafts housed within the gallery floor.

The new facility, opened to the public in May of 2022, is 86,000 square feet and houses more than 20 aircraft, six of which are suspended from the ceiling, as well as 17 exhibits, meeting rooms, classrooms, a giftshop, an observation lounge overlooking

the active runways, an interactive science of flight zone, and a galaxy exploration play area for children. The new building incorporates many sustainability features, including dual-core heat recovery ventilators providing efficient ventilation of the entire building, water use reduction, environmentally friendly refrigerant, LED lighting and low to zero emitting materials for healthy indoor air quality. The new facility houses one of the largest aviation heritage collections in Canada, and is one of only six 'Royal' museums in Canada.

MAJOR DESIGN COMPONENTS

The new building was designed to be part aircraft hangar and part museum, with an aerodynamic façade, supported on a concrete foundation.

Its large two-story hanger space is mostly clad with glass. This design provided a unique challenge for the KGS Group mechanical team to heat and cool the space, provide proper humidity levels as required for museum spaces and to distribute plumbing, natural gas and sprinkler systems throughout the facility. Rigorous demands needed to be met in designing the mechanical systems to be sustainable and to achieve Efficiency Manitoba standards and LEED v4 Silver certification.

Key sustainable features include dual-core heat recovery ventilators providing efficient ventilation of the entire building, high efficiency gas boilers providing heat to an in-floor heating system and fan coil units throughout the building as well as



temperature and humidity control to meet Class 'A' rated museum standards.

Mechanical – Building HVAC Systems

The methods for heating and cooling for the building were selected to provide the maximum energy saving, while staying within budget. The HVAC for the building consists of in-floor heating. These systems were specifically selected to provide a warm floor, safety and low maintenance. The principal advantage of using hydronic systems, as opposed to an 'all air' system, is that moving heat around a building can be undertaken far more efficiently by pumping warm or cool water in pipes than by moving the same amount of heat in ducted air. The impact of using this method reduced energy usage costs and provided a tamperproof means of

heating and cooling the space, serving a dual purpose in this facility. The HVAC system includes:

- Two single-zone variable air volume (VAV) rooftop air handling units (RTU) for the large volume spaces
- Two-pipe fan coil system for the classrooms, offices, and other ancillary spaces
- Modular high-efficiency condensing boiler system located in the boiler room to provide hot water
- Packaged chiller system located on the roof to provide chilled water
- VFD pump controls on circulating pumps for heating water and chiller water
- Large air volume / high velocity drum diffusers to provide temperature de-stratification in the high ceiling display areas

- High velocity jet nozzle diffusers to provide airflow across the high curtain wall glazing in the display areas
- Ductless split air conditioners for electrical rooms

Mechanical – Plumbing Systems

Plumbing fixtures were selected to further the energy and economic savings for the building. Low-flow fixtures were used exclusively in the building to reduce the water use and ultimately reduce the operating costs of the building. The use of low flow plumbing fixtures resulted in a 50% reduction in water usage compared to conventional fixtures. The building plumbing systems include:

- Efficient low-flow plumbing fixtures
- Point-of-use electric water heater utilized for providing water at the building exterior for aircraft washdown



- Low-pressure sanitary sewer system (could not use a gravity connection to City sewer system)
- Commercial grade kitchen fixtures for the Servery
- Oil-detecting sump pit system for elevator shaft

Electrical – Building Power Systems

The team needed to provide power and museum quality illumination and control, life safety, communication and security systems while designing to meet Efficiency Manitoba and LEED v4 Silver certification. Key sustainable features of the building include LED lighting and EV charging receptacles. In addition, building exterior and parking lot lighting was designed to be Dark-sky compliant. The building power systems were selected to be energy efficient, reduce harmonics and provide low maintenance, while staying within budget. Incoming service to the building is provided with a 347/600V/3Ø 4 wire system for large loads which is then transformed via harmonic mitigating transformers down to 120/208V/3Ø/4W for plug loads and small equipment and 277/480V/3Ø/4W for lighting and special systems. These systems include:

- 1200A, 347/600V/3Ø/4W main building switchboard c/w SPD and digital metering
- 120/208V/3Ø/4W harmonic mitigating, phase shifting, and K rated transformers
- 277/480V/3Ø/4W harmonic mitigating, phase shifting, and K rated transformers
- 16kW central AC inverter for emergency lighting
- CDP's and branch circuit panels located throughout the facility
- Level 2 EV charging stations in parking lot for public use

Electrical – Illumination

Proper illumination to the building exterior, outdoor pavilion plaza, hanger space and galleries were of paramount importance, drawing in and engaging visitors. The museum is a visual feast and a spectacular site at night. From the illumination of aviation plaza planes to the magnificent, illuminated prow of the building, visitors will be dazzled as they drive down Wellington Avenue. As visitors and pedestrians pass by the main entrance the illumination from inside the hanger areas shines light through the curtain wall windows showing the majestic and historic aircraft that await them. The building lighting and lighting control system required extensive coordination to ensure that aircraft and galleries were well illuminated to help provide focus and high-quality lighting of the displays.

The majority of the lighting systems were serviced with 277/480V/3Ø/4W to help reduce voltage drop for the large building area and keep costs down.

THE FINAL PRODUCT

While projects of this magnitude often carry a significant cost, the project's scope, constraints, and associated risks were well defined and this project was delivered within the client's expected budget. In addition, utility owners, Winnipeg Airport Authority, the Royal Aviation Museum of Western Canada, curator and architect were all consulted throughout the design and construction phase of the project. Together as a well-integrated group, we identified and successfully navigated several stakeholder concerns and issues that included energy savings, budgeting, LEED certification, environmental temperature and humidification of the grounds, building façade and galleries. Challenges experienced from design through construction were addressed and mitigated by our team's innovative, multi-disciplined engineering designs, high-level style of internal project management, and quality assurance. The final result provides Winnipeg with a destination go-to attraction and venue that welcomes visitors from across Canada and beyond. 🇨🇦





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EXCELLENCE AWARDS

BUILDING ENGINEERING

PROJECT: NEW MUSEUM BUILDING FOR THE ROYAL AVIATION MUSEUM OF WESTERN CANADA

CLIENT: ROYAL AVIATION MUSEUM OF WESTERN CANADA

FIRM: KGS GROUP



The new Royal Aviation Museum of Western Canada is a world-class, state-of-the-art facility destined to become a signature attraction. At 86,000 square feet, the facility contains more than 20 aircraft, six of which are suspended, 14 galleries, meeting rooms, classrooms, a gift shop, and an observation lounge overlooking active runways. A multidisciplinary team collaborated to achieve the complex requirements of the museum building and to bring interactive galleries to life, showcasing impressive aircraft displays. KGS Group experts designed an energy efficient facility that targets LEED Silver Certification and demonstrates a 39.1% annual energy savings in the final energy model.





EXCELLENCE AWARDS

BUILDING ENGINEERING

PROJECT: SMITH STREET LOFTS – DESIGN THROUGH DEMOLITION

CLIENT: EDISON PROPERTIES

FIRM: CROSIER KILGOUR & PARTNERS LTD.



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the entire project team. The exterior saw an exceptional transformation by way of the installation of full height curtain wall to brighten the suites and the addition

of precast balconies to optimize space. The interior spaces have been lofted and polished to offer a comfortable living and social experience. Engineering these remarkable changes was done by utilizing the knowledge and experience from our Restoration, New Design, and Building Envelope Science teams.



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EXCELLENCE AWARDS

BUILDING ENGINEERING

PROJECT: THE LEAF AT CANADA'S DIVERSITY GARDENS

CLIENT: ARCHITECTURE 49

FIRM: SMS ENGINEERING



The Leaf at Canada's Diversity Gardens is a Canadian first-of-its-kind indoor horticultural attraction featuring four distinct worlds within the biomes of Tropical, Mediterranean, Display House & Butterfly Gardens, each with its own unique design and programming requirements. Ethylene-tetra-fluoro-ethylene (ETFE), a translucent, strong yet light-weight material was used in the construction of the biomes. Within the biomes, a diagrid provided a challenge to designers as there were no walls from which to mount lighting, fire alarm devices or to route traditional conduits and wiring. Adding to this challenge, was that the building was constructed in two phases, with phase one being the foundations phase. With no crawlspaces or basements, and in most areas, no walls or ceilings, it was imperative that we designed our electrical infrastructure to provide the correct amount and size of conduits to the



biomes and main street in the ground and stubbed up to the correct location prior to completion of the foundation. This was all done a year in advance of final design.

We succeed in meeting our challenges and what is more noteworthy is the fact we did not have to add any underground conduits throughout the construction.



EXCELLENCE AWARDS

ENVIRONMENTAL



PROJECT: PAUINGASSI FIRST NATION LANDFILL EXPANSION PROJECT

CLIENT: PAUINGASSI FIRST NATION AND INDIGENOUS SERVICES CANADA

FIRM: KGS GROUP

The Pauingassi First Nation Landfill Expansion Project created a new integrated resource management centre for this remote community. Success was achieved even though the COVID-19 pandemic and 2021 forest fires impacted schedule. Innovative design overcame challenging site conditions, integrated community requests, preserved local heritage resources and Traditional Land Use Areas, and mitigated existing environmental impacts. The result is a practical, sustainable and aesthetically pleasing facility that also addresses divertible wastes. This project is a template for successful collaboration between Indigenous communities, contractors, consulting companies and government agencies.





EXCELLENCE AWARDS

MUNICIPAL AND WATER

PROJECT: CITY OF IQALUIT WATER CRISIS

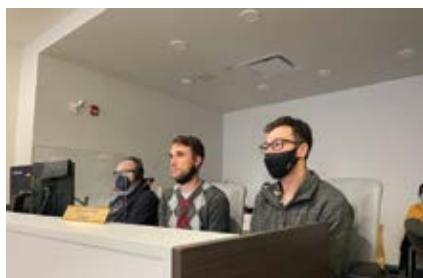
CLIENT: CITY OF IQALUIT

FIRM: WSP CANADA, INC.

In October of 2021, visible fuel-like contamination was discovered on the surface the below ground treated water tanks at the Iqaluit Water Treatment Plant, and a Do Not Consume advisory was issued for the population of 8,500 Iqalumiut. The order placed tremendous stress on consumer access to potable water and the Hospital's ability

to sterilize equipment. WSP personnel were flown to Iqaluit and performed an inspection of the WTP. WSP discovered a sub-surface cavity below the WTP

(known as The Void) and a deteriorated underground fuel storage tank. WSP identified the contamination pathway into the system and severed the pathway.

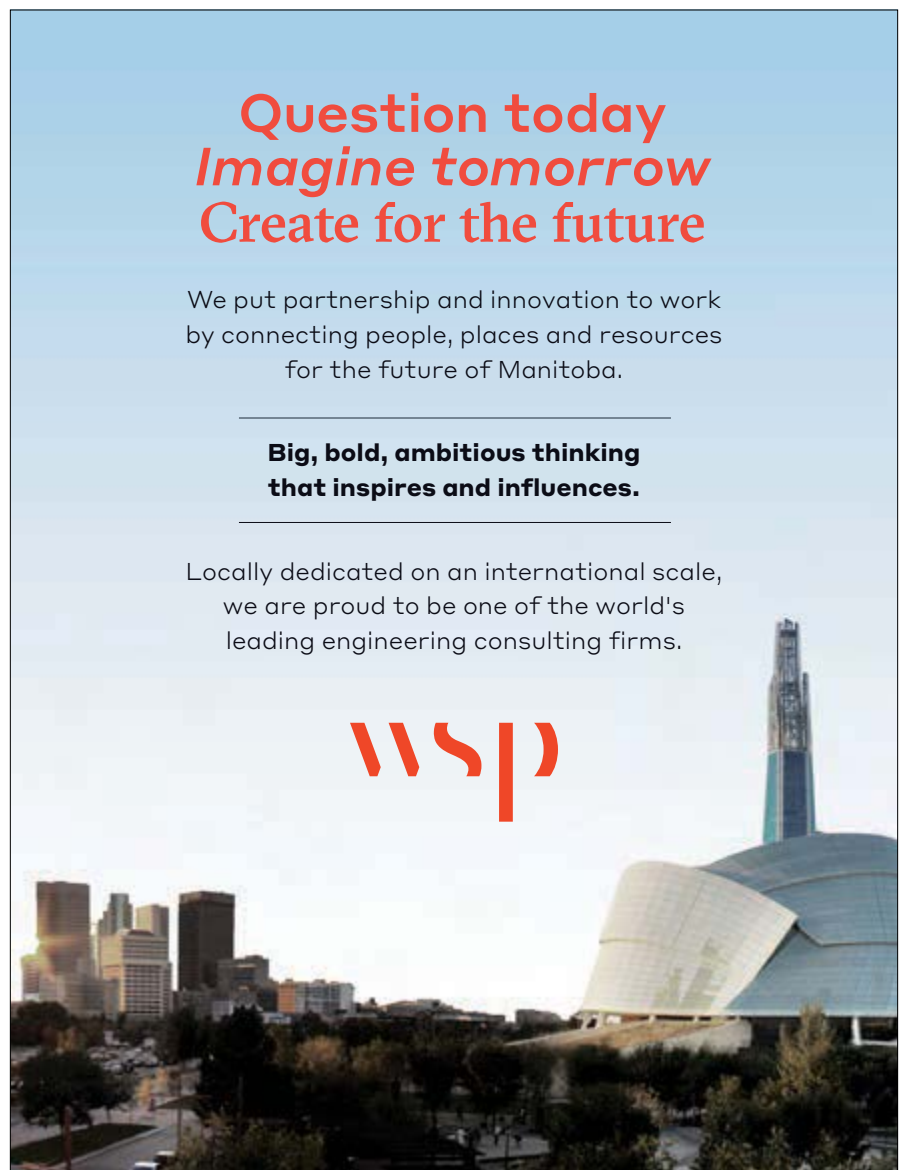


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EXCELLENCE AWARDS

MUNICIPAL AND WATER

PROJECT: LAFLECHE DAM LOW LEVEL OUTLET CONDUIT REMEDIATION PROJECT

CLIENT: SASKATCHEWAN WATER SECURITY AGENCY

FIRM: KGS GROUP



The Lafleche Dam in southwestern Saskatchewan was originally constructed in 1958. The dam's reservoir (Thomson Lake) is used for municipal water supply, irrigation and recreation. The dam offers flood protection, and its low-level outlet conduit is needed for reservoir management and riparian flow passage. In 2018, an inspection of the conduit revealed severe deterioration of the pipe which presented a significant dam safety risk due to internal erosion. KGS developed a solution using an array of innovative conduit replacement and rehabilitation methods including trenchless technologies coupled with state-of-the-art instrumentation to monitor the dam during select high risk construction stages.





EXCELLENCE AWARDS

TRANSPORTATION

PROJECT: EVELINE STREET RECONSTRUCTION

CLIENT: CITY OF SELKIRK

FIRM: JR COUSIN CONSULTANTS LTD.



JR Cousin Consultants Ltd.

The City of Selkirk adopted a Downtown Selkirk Renewal Strategy for the revitalization of the downtown core as an accessible and vibrant area. As part of this Strategy, JRCC, HTFC, and Tower designed new transportation infrastructure for Eveline Street, including roadway, sidewalks, active transportation path, street and pedestrian lighting, landscaping, furnishings, and art displays. Innovative design elements and materials reflect Selkirk's rich history and encourage citizens to walk, bike, or ride along the welcoming and functional streetscape. The project aligned with the City's Downtown Selkirk Renewal Strategy, Climate Change Adaption Strategy, Active Transportation Strategy, and Street Tree Policy.





EXCELLENCE AWARDS

TRANSPORTATION

PROJECT: FORT SEVERN WINTER ROAD RELOCATION STUDY

CLIENT: FORT SEVERN FIRST NATION

FIRM: KGS GROUP



Winter roads are lifelines for remote northern communities. Climate change has severely reduced the serviceability and sustainability of the Fort Severn winter road that was constructed through organic terrain and lakes. Alternative winter road route options were developed with the community by using climate sensitive routing and construction strategies optimized through geotechnical investigations and helicopter reconnaissance program. The study developed a plan for a climate resilient winter road network that will enable vital access to the community despite the challenges of climate change. This new approach to winter roads considers environmentally and culturally sensitive areas while setting the community up for future all-season access.





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AWARDS OF MERIT

BUILDING ENGINEERING

PROJECT: CANADA LIFE PROJECT CYGNUS

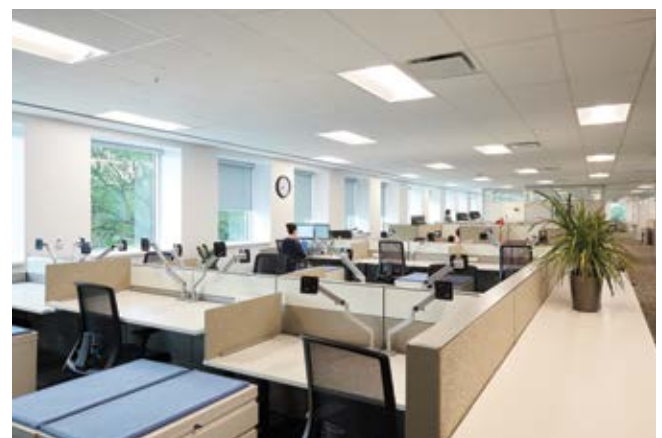
CLIENT: CANADA LIFE

FIRM: SMS ENGINEERING



Canada Life corporate headquarter campus is comprised of the three buildings located at 60, 80 and 100 Osborne Street North in Winnipeg, Manitoba. The Board of Directors for Canada Life tasked the company's Winnipeg property management team with becoming a national leader in greenhouse gas (GHG) emission reductions from buildings.

SMS Engineering was instrumental in establishing the blueprint that accomplished this forward-thinking goal with the added benefit of keeping the commercial office space appealing to staff through an improved occupant experience making the facility Manitoba's first Intelligent Building. SMS worked with the client to design and implement a converged network that allows the various building systems to communicate and share information on a single network. The secure network set up in conjunction with the client's IT team increases efficiency, reduces implementation costs, reduces downtime and increases future flexibility. This converged network has now become the backbone of this smart building and can be expanded in the future. The project had high sustainability targets and has reduced the campus energy use by nearly 30% and GHG emissions by 40% to achieve an eight-year return on investment.





AWARDS OF MERIT

ENVIRONMENTAL

PROJECT: MANITOBA CROWN LAND AGGREGATE QUARRY LIABILITY ASSESSMENT PROJECT

CLIENT: MANITOBA NATURAL RESOURCES AND NORTHERN DEVELOPMENT

FIRM: DILLION CONSULTING LTD.



The Government of Manitoba retained Dillon for a liability assessment of aggregate quarries and pits on Crown Lands in Manitoba and to support in redesigning the Crown Quarry Rehabilitation Program, focusing on rehabilitation of depleted pits and quarries, providing an estimate of existing liability to the Province, safety and risk mitigation improvements, environmental mitigation/cleanup, associated engineering design, oversight and administration. The Project encapsulated the entire Province requiring a unique blend of multiple engineering disciplines and design and construction knowledge



with the added challenge of copious data and inspection requirements. The resulting recommendations affected

multiple stakeholders including the general public and many divisions within Government.

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AWARDS OF MERIT

MUNICIPAL AND WATER

PROJECT: NORTH END WATER POLLUTION CONTROL CENTRE
SEQUENCING BATCH REACTOR OPTIMIZATION

CLIENT: CITY OF WINNIPEG

FIRM: AECOM CANADA LTD.

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The centrate treatment plant at the North End Water Pollution Control Centre in Winnipeg relies on costly and hazardous chemicals like methanol to treat wastewater. The existing sequencing batch reactor technology was modified to reduce chemical and energy use, and lower operational costs. A first of its kind in Manitoba, the new process is less expensive and less disruptive to the environment. Nitrification-denitrification successfully removes nitrogen from wastewater, reducing the nitrogen load to the Red River and Lake Winnipeg. Implementing the new process lowered the facility's carbon footprint with a 50% reduction in methanol consumption.



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AWARDS OF MERIT

MUNICIPAL AND WATER

PROJECT: WATER TREATMENT FACILITY UPGRADE – NEW CHEMICAL BUILDING

CLIENT: CITY OF BRANDON

FIRM: JACOBS



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To support the long-term sustainability of the City of Brandon's water supply, the City embarked on a water treatment facility upgrade program in 2017, the first phase of which is a new chemical building. This project achieved the City's objectives of improving the overall health and safety of their facility while extending the service life of the existing facility. Through systematic and collaborative planning, the new chemical building was brought online while maintaining distribution water quality, with no disruption to the City's water supply and the incorporation of additional features to enhance operator comfort and meet future needs.





AWARDS OF MERIT

TRANSPORTATION

PROJECT: CHURCHILL AIRPORT – ANSWERS BENEATH THE SURFACE

CLIENT: PUBLIC SERVICES AND PROCUREMENT CANADA AND TRANSPORT CANADA

FIRM: ASSOCIATED ENGINEERING (SASK.) LTD.



With one of the few paved airfields in the Arctic, the Churchill Airport is essential for many services in the North. Associated Engineering was contracted to deliver a long-term solution to surface deficiencies with the runway and taxiway. Using 3D scanning and other technology, Associated Engineering determined the underlying problem was permafrost deterioration caused by improper drainage. This issue had not been identified previously. The solution included drainage improvement and maintenance recommendations, asphalt treatment and application techniques, and installing monitoring cannisters in the runway. This work will advance research into new applications for northern paved and unpaved airstrips.





AWARDS OF MERIT

SMALL PROJECTS

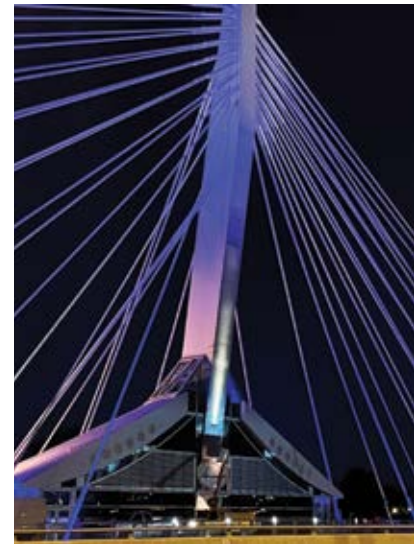
PROJECT: ESPLANADE RIEL PEDESTRIAN BRIDGE
CABLE STAY AND PYLON LIGHTING UPGRADE

CLIENT: CITY OF WINNIPEG

FIRM: TETRA TECH CANADA, INC.



The Esplanade Riel Pedestrian Bridge is Winnipeg's signature bridge. The cables and pylon luminaires were subjected to several outages in recent years with considerable maintenance costs. The City required these lights be upgraded with a durable, state-of-the-art, colour-controlled LED light system to reduce maintenance costs, improve energy efficiency, and create dramatic visual effects. Tetra Tech provided owner's advocate services for the project, including assistance in preparing the design-build contract, providing advisory services during tender, and providing CA services during construction. The project was efficiently executed, and the outcome was dramatic and added a touch of elegance to Winnipeg's iconic bridge.



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RISING STAR AWARD



Hailey Collins-Kramble, P.Eng.

Hailey began her career at Tetra Tech, Inc. as a summer student conducting survey work in 2013 and 2014. After graduating from the University of Manitoba's Civil Engineering program in 2016, Hailey returned to Tetra Tech as a structural EIT where she had significant involvement on the City of Winnipeg's Southwest Rapid Transit (Stage 2) Project. Hailey gained considerable experience on site for this project, providing resident inspection services for the bridges over Bishop Grandin Boulevard, in addition to involvement on multiple other elements of the project.

She has also proven her versatility as a structural engineer through working on numerous buildings project during her seven years with Tetra Tech. Hailey has supported designs and inspection for Mosaic facilities in Esterhazy, she is designing the structural rehabilitation of the building and pools at Radium Hot

Hailey is deserving of this recognition for her talents, her commitment to her profession and her community, and for being a role model for young professionals.

Springs for Parks Canada and has become an expert in the structural design of water treatment plants for communities in Manitoba and western Canada.

Hailey is currently chair of the ACEC-MB TWICE committee, of which she has been an integral member for seven years. Hailey sits on the Joint Health and Safety Committee for Tetra Tech Canada and the Social Committee and the Giving Back Committee for the Winnipeg office. In 2020 Hailey won Tetra Tech's Rising Star Award and in 2021 she won the Teamwork Award.

Outside of work and engineering, Hailey is very active in her community.

She has volunteered her time regular at Ronald McDonald House, participated in Highway Cleanup volunteering along PTH 59, and has volunteered for Habitat for Humanity. In addition to her volunteer efforts, Hailey teaches piano lessons several evenings a week as she enjoys sharing her passion for piano and helping children develop their skills.


Hailey is a talented and versatile engineer, an incredibly giving person, and a rising star and is deserving of this recognition for her talents, her commitment to her profession and her community, and for being a role model for young professionals. 🌟

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Celebrating our Award-Winning Project



Dave Anderson (National Technical Specialist, Aviation, left) and Jeff O'Driscoll (Project Manager) at Awards Gala

Associated Engineering is proud to have received an Award of Merit from ACEC-MB for our work on the Churchill Airport Runway Repair in Churchill, Manitoba. The project provides long-term solutions to protect and improve the airport runway and taxiways at one of Northern Canada's few paved airfields.

Congratulations to the project team!

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ENGINEERING ACTION AWARD



Justin Rak-Banville, M.Sc., MBA, P.Chem., P.Eng., EP

Justin Rak-Banville is the Director of Water and Wastewater and is responsible for WSP’s Water and Wastewater practice in the prairies. With more than a decade of experience in the water and wastewater industry, Justin is responsible for leading teams to pursue strategic market growth using multidisciplinary staff and responding to our clients’ objectives across the Canadian Prairies.

Justin’s technical experience as a Water Treatment Specialist continues to provide short and long-term water and wastewater treatment strategies, delivering strategic technical support to clients and establishing cross-disciplinary efficiencies between technical disciplines and subcontractors. Justin is recognized as both a Professional Chemist and Professional Engineer across Canada and offers a unique technical perspective to inter-disciplinary design solutions complemented by innovation, strategy, and leadership qualities.

Justin provides novel approaches to traditional engineering roles of treatment conceptualization, piloting studies, and process pre-design, and client and project management. Key areas of technical practise include mechanistic aquatic chemistry, technology evaluation, piloting, and treatment evaluations, instrumental analytical chemistry and laboratory methods, and water and wastewater design. While completing his MBA, Justin specialized in the coordination and exploitation of organizational knowledge resources, to create benefit and competitive advantage for professional service firms.

Mentoring has been a huge aspect of Justin’s career as he leads the WSP Water & Wastewater team in Manitoba. He is mentoring the future leaders in our industry with a style that is supportive,



Mentoring has been a huge aspect of Justin’s career as he leads the WSP Water and Wastewater team in Manitoba.

encouraging and leaves mentees with experience and confidence to move forward in their careers. Under Justin’s leadership and direction, the Water and Wastewater team at WSP expanded during the difficult time during the pandemic and has now tripled in size.

Justin has participated on the ACEC-MB Image and Water and Environment

Committees, and he is a member of Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists, Association of Chemical Professionals of Ontario, Environmental Professional ECO Canada, American Water Works Association, Western Canada Water Works Association and Association of Chemical Professionals of Alberta.

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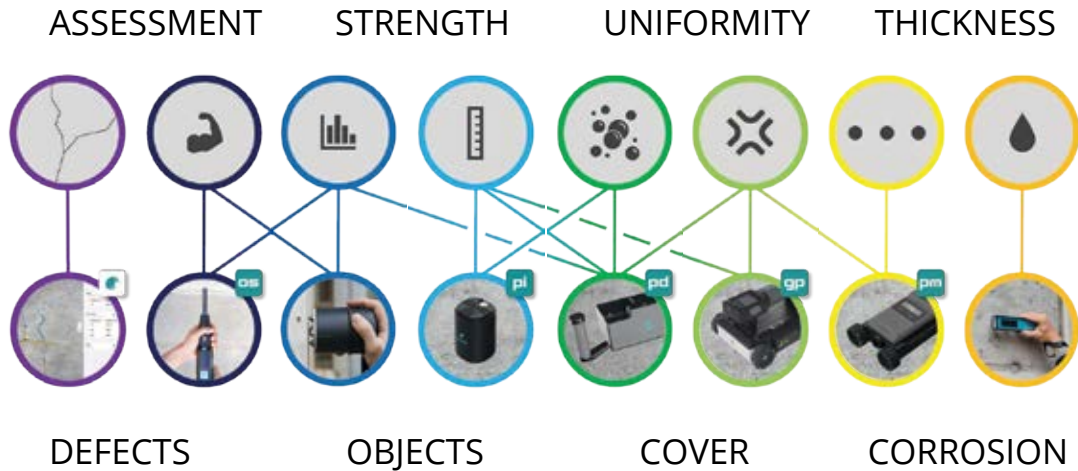
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LIFETIME ACHIEVEMENT AWARD



William (Bill) H. Brant, P.Eng., FEC

Bill Brant is a Senior Civil Engineer with over 45 years of experience in project management and engineering of diverse projects, mostly in the water and wastewater fields but also those related to public works, infrastructure and the environment. He has been responsible for utility rate, planning and feasibility studies, design, contract administration, commissioning and operation of projects, including waterworks, sewerage, drainage, solid waste disposal and local roads. Bill has specialized experience in water source development, treatment and distribution, in which he is recognized as a leader in Western Canada. He has played a key role in introducing numerous innovations to Manitoba, including low pressure sewers in 1975, membrane treatment processes in 1976, and regional water systems in 1986. Bill was previously WSP Vice President for Manitoba, responsible for management of all operations and administrative services for WSP's Buffalo Place Winnipeg Office.

Bill has been an active member of ACEC-MB, serving as President 2003/2004, as a Director and the Manitoba Representative to ACEC-Canada for many years. He was also President of Western Canada Water 1996/1997 and continues to be an active member of these Associations and many more, while also remaining the Editorial Chair of the Western Canada Water Magazine for the past 28 years.

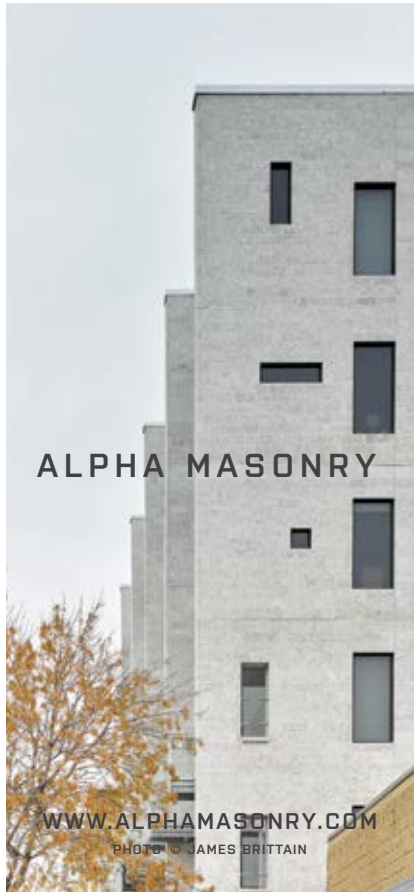
Bill's career included many awards some of which include: the WCW H.C. Lindsten Award (1997), the AWWA G.W. Fuller Award (1997), the WCW Service Award (2003), the ACEC-MB Engineering Action Award (2011), and the AWWA Distinguished Service Award (2015).

These awards reflect on the foundation of Bill's career being his drive and passion for engineering, reinforced by his compassion for the people around him. He is truly the definition of a consulting engineer, an individual who leads and inspires by example.

Bill was awarded the ACEC-MB Lifetime Achievement Award in 2014 and his continued work and strong support of his team over the past nine years is indication that it is time to once again celebrate the contribution he is making to Consulting Engineering, the growth of the industry and mentorship and guidance to younger professionals. Bill's nominators exult his devotion to team work and mentorship as follows: "Bill has leveraged his seemingly infinite amount of work experience into a conductive mentorship program that myself and many others have been a part of. The focus of Bill's program is the development of client relationships through important and meaningful work. For the projects that Bill acquires, he often takes on the role of a hybrid project manager & technical lead – this allows him to bridge the gap between the younger technical members of the team and the client, and to develop positive synergy between all parties. Bill is also very good at matching not only individual talent to projects but matching individual ambitions to projects. Without much experience with water treatment infrastructure but a desire to learn more, Bill transferred his knowledge and expertise through several water treatment plant design-build projects, as well as novel projects that get into the 'engineering behind the engineering.' Classic examples of these unique projects are water rights licensing applications,

understanding utility funding structures, and managing the needs of water consumers in the near- and long-term."

Bill is a deserving candidate for this Lifetime Achievement award, his mentorship of junior and senior staff is countless, while his leadership in connecting consulting engineers across Provinces is unsurpassed. Outside of work, for the past 40 years Bill has been an active member in his Parish, chairing multiple committees and continuing his mentorship to those outside of his profession. 🍁



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AWARDS OF EXCELLENCE IN CONSULTING ENGINEERING

The ACEC-MB 2023 Awards of Excellence were held April 20, 2023 at the Royal Aviation Museum of Western Canada. The 2023 Keystone Award winning facility was a dramatic and inviting backdrop for the event, where young professionals and lifelong members alike could mingle and appreciate the breadth of Manitoban engineering talent.



THE 24TH ANNUAL ACEC-MB GOLF TOURNAMENT



The 24th Annual ACEC-MB Golf Tournament took place on Tuesday, September 12, 2023. 72 Golfers enjoyed a beautiful sunny almost windless day on the course at Bridges for a round of Texas Scramble, lunch, dinner, contests and prizes.

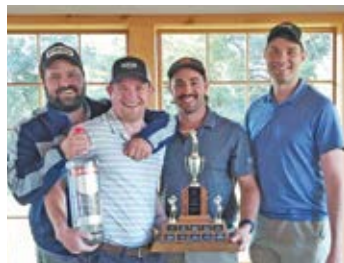
Golfers enjoyed lunch sponsored by Stantec Consulting Ltd, beverages sponsored by ENG-Tech and drove golf carts sponsored by Tri-Core Project Ltd.



Our Tournament winner, for the third year in a row was the KGS Team. Congratulations to Sean Charles, Ryan Officer, Evan Coy and Matt MacKay who ended up with an incredible score of 62. For anyone keeping track their scores, last year was 63. Jeff Porter from Paddock Drilling, our dinner sponsor, presented the trophy.



*2024 Tournament Winners: KGS Group Team
Jeff Porter, Paddock Drilling presenting trophy to Tournament Winners: Sean Charles, Ryan Officer, Evan Coy and Matt MacKay*



Winning Team celebrating Hole 4 contest draw win sponsored by GeoVerra



Todd Baley, Branch Lead for Winnipeg and Virden from GeoVerra Manitoba Land Surveying Ltd. greeting golfers at Hole 4



ACEC Team: Scott Kelman, Jeremy Partaker, Kerri Hiebert, Ryan Kostynuik



Associated Engineering Team: Travis Duff, Mario Scerbo, Tim Wiebe, Jeff O'Driscoll



Dillon Consulting Team: Derrick Jensen, Ron Weatherburn, Russ Andrusbuk, Bob Last



Teams enjoying dinner after the round

During the day golfers took part in four contests on the course. Congratulations to:

Michelle Loewen – Longest Drive Women on Hole 17

Evan Coy
Longest Drive Men on Hole 18



John Duncan
Closest to the Pin on Hole 13



Matt MacKay
Closest to the Pin on Hole 15



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Thank you to our Contest Sponsors for making these contests possible.

Golfers were all presented with a gift for supporting the Golf Tournament and a few lucky golfers left with some really nice draw prizes. Paddock Drilling was once again our dinner sponsor and we thank them for their long-term support of the Golf Tournament. 🍷



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Website: www.accutecheng.ca



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Email: todd.smith@aecom.com
Website: www.aecom.com/ca



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Tel: (204) 942-6391
Email: odriscollj@ae.ca
Website: www.ae.ca



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Tel: (204) 272-3255
Email: tony_mitousis@cgmeng.ca
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Tel: (204) 943-7501
Email: haney.louka@ckpeng.com
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Tel: (204) 334-8846
Email: ikutzak@dghengineering.com
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Tetra Tech Canada Inc.
Contact: Emile Shehata
Tel: (204) 954-6800
Email: emile.shebata@tetratech.com
Website: www.tetratech.com



Tower Engineering Group
Contact: Mike Houvardas
Tel: (204) 925-1150
Email: mbouvardas@towereng.ca
Website: www.towereng.ca



Urban Systems
Contact: Greg Propp
Tel: (204) 259-0094
Email: gpropp@urbansystems.ca
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Contact: Derek Dreger
Tel: (204) 477-6650
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Jerry Cousin, P. Eng.

ACEC-MB Retired Member

Life as an engineer begins with curiosity – asking questions of the world, and learning how it all goes together. “All engineering is taking something simple, making it complicated with engineering calculations and drawings, and making it simple again as a constructed product.”

Jerry Cousin got his start as a farm kid in Swan Lake, Manitoba, and he remembers at a very young age, wanting to know how things came apart and went back together. “I’d disassemble older farm equipment for parts that could be re-used, and I always liked to know how things were built. I learned how to weld and use shop tools, and was involved in repairing farm equipment, fabricating go-carts and working on building structures.” Life on a working grain and livestock farm was highly conducive to fostering Jerry’s desire to learn, while also teaching skills that later would be vital to the job of an engineer: it developed the ability to look outside the box to solve complex problems, to think quick on his feet, as well as a level of pragmatism and creativity.

Jerry’s formal education began at the University of Manitoba’s Department of Agricultural Engineering, now known as Biosystems, at the encouragement of Dr. Garland Laliberte. Jerry was in the first graduating class of the department in 1971, and went on to work for Churchill Forest Industries and then the Province’s Department of Agriculture as



1987. Clare Braun, Niverville Mayor Gil Wiebe, Jerry Cousin, land owner George Dueck, and golf course designer John Thompson look over the possible location of the first tee of a future golf course in Niverville. Photo courtesy of *The Carillion*.



a research engineer for rural water and sewer services. Even then, he took every opportunity to learn; “during those ten years of employment, I also went back to University and got my Master’s degree in Civil Engineering.”

In 1981, Jerry and his business partner Tim Lasuik founded JR Cousin Consultants Ltd., with Jerry serving as president of the company until his retirement in 2018. The firm provides consulting expertise and project management services for wastewater and drinking water treatment, roadways, drainage and land development for private, municipal, provincial and federal clients, and Jerry himself has worked with over 50 Indigenous groups, First Nations councils and municipal councils across Manitoba, Saskatchewan and Ontario. The firm has received multiple awards since its founding, and Jerry himself has been the recipient of the ACEC-MB Lifetime Achievement Award, as well as the University of Manitoba

Biosystems Engineering Alumni Influence Award.

After 37 years at his firm, Jerry stepped down as president, to be replaced by his son, Jason. As he looks back on his career, he sees the flourishing of the firm as one of his greatest achievements. “There is pride in seeing the company continue to grow, creating more employment.”

In his retirement, Jerry and his wife Linda travel the world, spend their time at their cottage in Lake of the Woods, Ontario, often with their kids and grandkids, and they spend their winters at their home in Arizona.

After his long and decorated career dedicated to engineering excellence, Jerry has learned the keys to success in the field; “Respect people. Have friendly encounters, work hard toward the goals you set. Have faith, use your God given abilities, have or create job satisfaction, and never give up to any problem. After all, a problem just provides another challenge, which can make life more exciting.” 🇨🇦

ENGINEERING RECONCILIATION

As Manitobans, Canadians, professionals and global citizens, we have a responsibility to engage in reconciliation efforts with the Indigenous peoples, on whose ancestral land we live, work and build our combined future. This future is only possible through collaboration, sensitivity and purposeful knowledge sharing, as well as through respectful and diligent actions that honour the past as well as safeguard the potential of all who will come after us. We have a responsibility to learn from history, and use these teachings in all that we do.

As engineers who work to shape the future of Canada, of its peoples and places, the path towards reconciliation is complex, multi-tiered and can seem prohibitively daunting. However, the Truth and Reconciliation Commission 94 Calls to Action contains some of the tools to begin this journey. The following Calls to Action are specific areas in which engineers, firms and developers can begin or continue their essential efforts concerning reconciliation:

CALL TO ACTION 92: We call upon the corporate sector in Canada to adopt the United Nations Declaration on the Rights of Indigenous Peoples as a reconciliation framework and to apply its principles, norms, and standards to corporate policy and core operational activities involving Indigenous peoples and their lands and resources. This would include, but not be limited to, the following:

1. Commit to meaningful consultation, building respectful relationships, and obtaining the free, prior, and informed consent of Indigenous peoples before proceeding with economic development projects.
2. Ensure that Aboriginal peoples have equitable access to jobs, training, and education opportunities in the corporate sector, and that Aboriginal communities gain long-term sustainable benefits from economic development projects.
3. Provide education for management and staff on the history of Aboriginal peoples, including the history and legacy of residential schools, the United Nations Declaration on the Rights of Indigenous Peoples, Treaties and Aboriginal rights, Indigenous law, and Aboriginal-Crown relations. This will require skills-based training in intercultural competency, conflict resolution, human rights, and anti-racism.

CALL TO ACTION 13: We call upon federal, provincial, territorial, and municipal governments to provide education to public servants on the history of Aboriginal peoples, including the history and legacy of residential schools, the United Nations Declaration on the Rights of Indigenous Peoples, Treaties and Aboriginal rights, Indigenous law, and Aboriginal-Crown relations. This will require skills-based training in intercultural competency, conflict resolution, human rights, and anti-racism.

CALL TO ACTION 75: We call upon the federal government to work with provincial, territorial, and municipal governments, churches, Aboriginal communities, former residential school students, and current landowners to develop and implement strategies and procedures for the ongoing identification, documentation, maintenance, commemoration, and protection of residential school cemeteries or other sites at which residential school children were buried. This is to include the provision of appropriate memorial ceremonies and commemorative markers to honour the deceased children.

source: www.rcaanc-cirnac.gc.ca

Several projects are either recently completed or in progress by Manitoba firms working in conjunction with First Nations groups to develop infrastructure for underserved or isolated populations.

- Dillon Consulting, Clan Mothers Healing Village
- AECOM, Shoal Lake 40 Freedom Road
- JR Cousins, Neskantaga First Nation Water Treatability Study
- KGS and Dillon Consulting, PR 304 to Berens River All Season Road
- KGS, Fort Severn First Nation Winter Road Relocation Study
- Associated Engineering, Tlich Cultural Commons Digital Database
- Boge & Boge (1980) Ltd., Selkirk First Nation Early Childhood Development Centre
- Neegan Burnside, Sioux Lookout Meno Ya Win Health Centre
- SMS Engineering, God's Lake First Nation Nursing Station & Residences
- Stantec, Mistissini Wooden Bridge
- SNC Lavalin, Construction of a New Local Community Service Centre in Aupaluk
- WSP, Ladysmith Wastewater Treatment Plant Upgrade

A Well-Deserved Honour

Robert Okabe, Red River Polytech Distinguished Graduate

RRC Polytech proudly partnered with the ACEC-MB to honour engineering expert Robert Okabe (Civil Engineering Technology, 1983) with a Distinguished Graduate Award at the chapter's annual Awards of Excellence in Consulting Engineering this past April.

As a local, provincial, and national leader in the engineering technology profession, it was more than fitting to celebrate Okabe's achievements with industry peers at the ACEC-MB annual awards.

RRC Polytech's Distinguished Graduate Award recognizes the outstanding personal and professional achievements of the College's most accomplished alumni. Okabe's dedication to technicians and technologists, along with his passion for his community and volunteering, set him apart and made him an outstanding candidate for RRC Polytech's highest achievement.

ACEC-MB held a special place in the program for the College's Distinguished Graduate Award, kicking off the evening's celebration with Okabe's award presentation.

"Okabe's professional achievements truly embody the kind of commitment and leadership we aim to demonstrate to students," said RRC Polytech President and CEO Fred Meier, as he presented Okabe with his award. "His contributions to Manitoba showcase the difference that RRC Polytech graduates make to our province, especially in the profession of applied science and engineering technology."

"As a past graduate, I'm grateful for the education I received and the quality of the instructors who served as teachers and as mentors." Okabe said in his acceptance speech.

"RRC Polytech provided a solid foundation," he continued, "nurturing



my desire to further my life-long professional development with self-directed learning."

After a 30-year career in public works with the City of Winnipeg, Okabe is now CEO and Registrar at the Certified Technicians and Technologists Association of Manitoba (CTTAM). He leads an organization that certifies aspiring engineering and applied science technicians and technologists, while connecting them to important resources – and to each other.

It's a role he's been in since 2015, and one that keeps him close to his RRC Polytech roots.

"Most of our members are graduates of the College," said Okabe. "I find it a really good experience for me to interact with future graduates or current students and hopefully, in some way, be able to mentor them and make it easier for them post-graduation."

Both Okabe and CTTAM have generously supported the College over the years. Okabe participates in all nine of the school's Engineering Technology Advisory Committees – which provide direction and curriculum support from those working on the ground – and in 2008, established the Robert Okabe Achievement Award for Civil Engineering Technology.

"Volunteering has not only provided me with a natural sense of accomplishment but has also advanced my own personal and professional growth," said Okabe.

After thanking his wife, Janet, for her support and understanding throughout his career, Okabe committed to continuing to promote RRC Polytech and careers in engineering and applied science technology.

"I humbled and appreciative to have been nominated and to receive this award," he shared. 🇨🇦

TWO SIDES OF THE CTTAM PRESIDENT



JOSÉE RÉMILLARD, C.E.T.

A graduate of the RRC Polytech program in Civil Engineering Technology, Josée has been in the industry as a leading technologist for 11 years. She currently works at Crosier Kilgour & Partners Ltd. as a Structural Technologist specializing in Structural Restoration, is a member of the ACEC Young Professionals Committee, and is the current President of CTTAM.

In her spare time, Josée is an artist, and utilizes her creativity and deep love of nature to relieve stress. “Whether it’s camping, hiking, kayaking, trekking or snowshoeing, you’ll often find me exploring the great outdoors.” 🇨🇦

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Pursuing a career in consulting engineering is an incredibly rewarding experience. However, it’s essential to remember that you’ll be working to solve problems for both owners and contractors daily. Collaborating closely with contractors and owners to find solutions is key to ensuring projects run smoothly and meet high-quality standards. The beauty of this field is that no two projects or challenges are alike, keeping every day fresh and exciting.

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